

Table S1

Gene	Primer sequence (5' to 3')	Size(bp)
GPAM	GCAGGTTTATCCAGTATGGCATT	63
	GGACTGATATCTTCCTGATCATCTTG	
AGPAT6	AAGCAAGTTGCCCATCCTCA	101
	AAACTGTGGCTCCAATTTCTGA	
FASN	GGGCTCCACCACCGTGTTC	226
	GCTCTGCTGGGCCTGCAGCTG	
DGAT1	CCACTGGGACCTGAGGTGTC	111
	GCATCACCACACACCAATTCA	
DGAT2	CATGTACACATTCTGCACCGATT	100
	TGACCTCCTGCCACCTTTCT	
ACSL1	GTGGGCTCCTTTGAAGAAGTGT	120
	ATAGATGCCTTTGACCTGTTCAAAT	
ACACA	CTCCAACCTCAACCACTACGG	171
	GGGGAATCACAGAAGCAGCC	
SCD	CCATCGCCTGTGGAGTCAC	256
	GTCGGATAAATCTAGCGTAGCA	
ELOVL5	GGCTCCGCCGCCACCTCCGC	200
	TGTTCCATCCTGTACTIONGCT	
ATGL	GGAGCTTATCCAGGCCAATG	180
	TGCGGGCAGATGTCACTCT	
HSL	GGGAGCACTACAAACGCAACG	118
	TGAATGATCCGCTCAAACCTCG	
UXT	TGTGGCCCTTGGATATGGTT	101
	GGTTGTCGCTGAGCTCTGTG	

Table S2

Primers name	Primer sequence 5'-3'
Psi-CHECK-circ01592-w	CCGCTCGAGTCACCGAAGGTATCCCGCAGCAGGACATGGTG CGGGTCAAGCACAACTGCTGCGCGCCGGCGTAAGAAT A
Psi-CHECK-circ01592-Mut	CCGCTCGAGTCACCGAAGGTATCCCGCAGCAGGACATGGTG CGGGTCAAACCTGCTGCGCGCCGGCGTAAGAAT A
ELOVL5-up	ccgctcgagGTTGGCAGCCTCTGAACCACA
ELOVL5-Down	GCTCTCCGACCCCTGCGCTAGcgccggcgataaa
ELOVL5-overlap	CGUCUGATTGTTTTTTTTTCTGAGTTGTGCC

Table S3

Primers name	Primer sequence 5'-3'
pcDNA-circ01592-F	CCCAAGCTTACAGAATGGAATTCGGCAT
pcDNA-circ01592-R	GGGGTACCCATGCCTGGCCATATTCACA

Table S4

id	baseMean	baseMean_control_Sample non-lactation	baseMean_case_Sample_peak- lactation	foldChange	log2Fold Change	pval	padj	up_ down
AAED1	535.39 1958	744.6992255	326.0846904	0.4378 74351	- 1.191411 15	0.0125 70914	0.1376 84706	Dow n
ABCA1	1065.8 70582	1511.245734	620.4954298	0.4105 85397	- 1.284245 78	0.0060 55305	0.0845 44621	Dow n
ABCA1 0	394.94 33702	581.6023134	208.2844269	0.3581 2173	- 1.481478 03	0.0018 23231	0.0374 16686	Dow n
ABCA6	832.65 82541	1281.951271	383.365237	0.2990 48213	-1.74155	0.0005 1976	0.0159 02786	Dow n
ABCA9	572.57 33339	819.1904583	325.9562095	0.3979 00398	- 1.329520 75	0.0098 41556	0.1169 51139	Dow n
ABCB1 1	22.276 24651	1.905363956	42.64712905	22.382 66811	4.484310 117	0.0024 51237	0.0458 46759	Up
ABCC1	587.68 9019	860.5923772	314.7856609	0.3657 77887	- 1.450960 24	0.0054 35246	0.0785 17114	Dow n
ABCC1 1	133.72 49824	13.38869661	254.0612681	18.975 8029	4.246089 025	8.30E- 12	9.35E- 09	Up
ABCC6	30.123 92318	14.0424223	46.20542405	3.2904 16927	1.718270 399	0.0276 87726	0.2198 11488	Up
ABCC8	83.365 61094	14.03795771	152.6932642	10.877 17083	3.443231 453	0.0017 30092	0.0366 19619	Up
ABCC9	826.16 36414	1429.033926	223.2933565	0.1562 54762	- 2.678027 93	1.62E- 07	3.56E- 05	Dow n
ABCG4	21.874 20844	39.61785451	4.130562368	0.1042 60123	- 3.261740 63	0.0173 20409	0.1680 70396	Dow n
ABHD1	151.08	85.34231198	216.8351898	2.5407	1.345265	0.0067	0.0903	Up

	87509			70044	808	05715	39353	
ABI3BP	3420.9 01631	5975.588906	866.2143563	0.1449 58827	- 2.786284 91	5.52E- 05	0.0032 55701	Dow n
ABL1	2860.4 08776	4149.479206	1571.338347	0.3786 83268	- 1.400936 42	0.0491 5902	0.3030 05713	Dow n
ABL2	114.20 81537	176.0129485	52.40335895	0.2977 24454	- 1.747950 37	0.0017 68657	0.0367 89544	Dow n
ABLIM 1	4385.4 17823	5890.097463	2880.738183	0.4890 81582	- 1.031852 96	0.0145 19818	0.1511 81121	Dow n
ABO	574.78 91289	249.4645581	900.1136996	3.6081 82687	1.851272 386	0.0302 26336	0.2325 17217	Up
ABTB2	168.29 94816	110.9237735	225.6751898	2.0345 06966	1.024679 22	0.0337 39746	0.2466 0911	Up
ACAN	210.43 30751	392.6305645	28.2355858	0.0719 13876	- 3.797586 02	0.0081 56838	0.1026 96151	Dow n
ACAP2	72.979 65631	104.1334473	41.82586531	0.4016 56398	- 1.315966 24	0.0287 59041	0.2258 52996	Dow n
ACCS	313.33 44394	430.8069389	195.8619398	0.4546 39705	- 1.137204 41	0.0300 77948	0.2317 64993	Dow n
ACE	421.38 21496	595.4863977	247.2779016	0.4152 53652	- 1.267935 24	0.0074 11634	0.0963 93992	Dow n
ACER2	223.04 93083	363.1831361	82.91548055	0.2283 02122	- 2.130983 83	0.0076 1559	0.0984 08046	Dow n
ACER3	239.21 26913	334.6806643	143.7447184	0.4294 98127	- 1.219276 26	0.0471 31877	0.2959 31755	Dow n
ACHE	35.075 73949	9.674480329	60.47699865	6.2511 88343	2.644130 47	0.0209 05787	0.1882 77331	Up
ACKR1	707.66 79238	1281.741731	133.5941168	0.1042 28577	- 3.262177 21	0.0003 80713	0.0132 07078	Dow n
ACKR2	99.948 21006	175.4857765	24.41064359	0.1391 0326	- 2.845771 86	0.0001 76221	0.0076 04902	Dow n
ACKR3	2058.2	3961.384588	155.0546128	0.0391	-	2.55E-	1.31E-	Dow

	196			4152	4.675156 42	09	06	n
ACKR4	284.82 5156	557.0129881	12.63732381	0.0226 87665	- 5.461948 09	6.24E- 05	0.0035 81988	Dow n
ACOX3	1220.6 13446	650.8206563	1790.406236	2.7509 97865	1.459955 02	0.0211 5593	0.1887 39772	Up
ACP5	2863.6 39405	527.3967614	5199.882048	9.8595 25936	3.301518 281	0.0047 58831	0.0720 48501	Up
ACP6	465.07 22308	253.3973609	676.7471008	2.6706 95142	1.417215 303	0.0245 38195	0.2054 03481	Up
ACSF2	1436.4 13434	950.0333487	1922.79352	2.0239 22131	1.017153 785	0.0120 16639	0.1333 95784	Up
ACSL4	1831.2 41723	2921.469574	741.0138725	0.2536 4422	- 1.979121 81	4.94E- 05	0.0029 98571	Dow n
ACSM1	484.18 02615	863.2611045	105.0994185	0.1217 46964	- 3.038042 3	0.0436 34939	0.2827 32876	Dow n
ACSM3	314.20 55836	18.90640921	609.504758	32.237 99671	5.010690 191	0.0002 54537	0.0099 14059	Up
ACSM5	89.617 52566	38.10727912	141.1277722	3.7034 33451	1.888863 413	0.0081 15519	0.1026 96151	Up
ACTA1	126.95 48734	253.9097469	0	0	#NAME ?	0.0306 66245	0.2347 86647	Dow n
ACTA2	65155. 81035	120052.6686	10258.95214	0.0854 53762	- 3.548712 19	0.0132 71286	0.1425 00436	Dow n
ACTB	53808. 07008	76297.37119	31318.76897	0.4104 82937	- 1.284605 84	0.0151 6157	0.1553 97476	Dow n
ACTG2	71341. 05953	142548.5022	133.6168105	0.0009 37343	- 10.05913 56	0.0001 15143	0.0055 84507	Dow n
ACTN1	13597. 9839	21928.76854	5267.199272	0.2401 95853	- 2.057716 85	0.0498 4372	0.3049 20735	Dow n
ACVR1 B	826.43 95308	549.8950429	1102.984019	2.0058 08259	1.004183 701	0.0261 39349	0.2123 99872	Up
ACVRL 1	1559.0 97663	2174.714942	943.4803851	0.4338 40945	- 1.204761 88	0.0072 39128	0.0949 08662	Dow n
ACY1	442.48 14169	289.4483489	595.5144849	2.0574 11926	1.040830 673	0.0177 65751	0.1710 1194	Up

ADAM 12	288.96 71778	481.416277	96.51807852	0.2004 87776	- 2.318413 82	0.0411 66543	0.2738 47143	Dow n
ADAM 19	1461.6 81414	2447.159495	476.2033333	0.1945 94318	- 2.361458 51	0.0005 17396	0.0158 7298	Dow n
ADAM 22	15.454 06855	27.05034788	3.857789227	0.1426 15143	- 2.809800 92	0.0100 20441	0.1184 99792	Dow n
ADAM 23	37.812 39511	71.16244287	4.462347343	0.0627 06495	- 3.995241 32	5.64E- 06	0.0005 43791	Dow n
ADAM 33	3100.1 48524	5102.040778	1098.25627	0.2152 58231	- 2.215859 69	0.0084 08164	0.1050 38	Dow n
ADAM TS1	3290.9 72854	5981.378195	600.5675135	0.1004 0621	- 3.316079 6	0.0273 94416	0.2184 6502	Dow n
ADAM TS12	290.44 07507	521.4652107	59.41629074	0.1139 41044	- 3.133640 56	5.08E- 09	2.24E- 06	Dow n
ADAM TS14	66.354 1433	119.7096533	12.99863327	0.1085 84671	- 3.203107 65	3.91E- 05	0.0025 38347	Dow n
ADAM TS15	283.40 25131	478.1211433	88.68388297	0.1854 84127	- 2.430632 36	1.21E- 06	0.0001 68977	Dow n
ADAM TS16	458.85 51525	913.8525159	3.857789227	0.0042 21457	- 7.888043 22	0.0066 2814	0.0896 96185	Dow n
ADAM TS17	878.32 2843	1548.600525	208.0451609	0.1343 43982	- 2.895996 4	0.0336 76678	0.2462 47907	Dow n
ADAM TS2	4770.0 06348	9156.35263	383.6600666	0.0419 00971	- 4.576872 51	0.0005 87767	0.0173 53087	Dow n
ADAM TS20	29.870 71619	59.74143238	0	0	#NAME ?	0.0343 81426	0.2489 78938	Dow n
ADAM TS3	102.99 97384	142.0165576	63.98291917	0.4505 31405	- 1.150300 42	0.0114 78871	0.1294 98032	Dow n
ADAM TS4	547.86 03728	967.0061159	128.7146298	0.1331 06324	- 2.909348 97	1.26E- 06	0.0001 71075	Dow n

ADAM TS5	307.27 85406	552.8491329	61.70794841	0.1116 18061	- 3.163357 6	5.06E- 09	2.24E- 06	Dow n
ADAM TS6	232.56 1475	366.2765252	98.84642484	0.2698 68304	- 1.889672 55	0.0051 91086	0.0761 31711	Dow n
ADAM TS9	1045.0 22014	1513.17487	576.8691582	0.3812 30993	- 1.391262 68	0.0070 24185	0.0930 31767	Dow n
ADAM TSL1	324.90 59274	575.4641946	74.34766027	0.1291 95979	- 2.952366 92	0.0344 87156	0.2493 4421	Dow n
ADAM TSL2	441.09 2365	724.0248792	158.1598509	0.2184 45326	- 2.194655 86	0.0020 52151	0.0405 96787	Dow n
ADAM TSL4	3865.3 41798	6479.427049	1251.256548	0.1931 12221	- 2.372488 63	0.0342 3675	0.2485 29874	Dow n
ADAM TSL5	1642.5 46935	2401.754086	883.3397846	0.3677 89438	- 1.443048 05	0.0030 50875	0.0529 18005	Dow n
ADARB 1	1288.9 64322	1746.6258	831.3028438	0.4759 47878	- 1.071124 5	0.0162 51684	0.1614 25488	Dow n
ADCK3	1702.4 85818	982.0492824	2422.922354	2.4672 10554	1.302880 842	0.0106 15645	0.1228 32337	Up
ADCY3	450.61 3106	604.0606792	297.1655329	0.4919 46493	- 1.023426 69	0.0373 39559	0.2616 81546	Dow n
ADCY5	426.03 6351	772.6848945	79.38780749	0.1027 42797	- 3.282890 84	0.0015 08028	0.0332 96592	Dow n
ADIG	37.571 05897	74.20432125	0.937796677	0.0126 38033	- 6.306084 23	0.0107 47075	0.1239 55553	Dow n
ADIPO Q	2338.4 93152	4587.447829	89.5384757	0.0195 18146	- 5.679040 18	0.0018 6055	0.0380 36735	Dow n
ADIRF	1144.3 05808	1550.364181	738.2474359	0.4761 76788	- 1.070430 8	0.0412 47013	0.2741 80238	Dow n
ADM	5784.5 44814	10959.15923	609.9303948	0.0556 54853	- 4.167348 7	0.0275 15411	0.2189 47782	Dow n

ADORA2B	403.356867	238.5711805	568.1425536	2.38143833	1.251833189	0.028180833	0.222279863	Up
ADRA2A	92.72207062	161.5919187	23.85222257	0.147607769	-2.76015944	4.14E-05	0.00264502	Down
ADRA2C	62.28195267	99.56587251	24.99803283	0.251070293	-1.99383676	0.030901046	0.235855412	Down
ADSSL1	271.8100972	140.0183357	403.6018587	2.882492901	1.527317055	0.003286656	0.055594325	Up
AEBP1	20270.71793	32733.09151	7808.34435	0.238545887	-2.06766128	0.000349446	0.012433254	Down
AFAP1L1	228.9088671	312.3813554	145.4363789	0.465573173	-1.10292016	0.024698561	0.206076474	Down
AGBL5	198.228481	130.837107	265.6198549	2.030156895	1.021591226	0.034065112	0.247843661	Up
AGO2	208.7756212	305.3617026	112.1895398	0.367398855	-1.44458097	0.002017064	0.040294379	Down
AGO3	46.68288377	67.94263731	25.42313024	0.374185213	-1.41817555	0.04182818	0.276084356	Down
AGRN	3982.835971	2084.016171	5881.655772	2.822269737	1.49685588	0.001728514	0.036619619	Up
AGTR1	798.2308277	1245.51127	350.9503856	0.281772148	-1.82739908	0.023475781	0.20003761	Down
AGTRAP	707.1242541	446.9356282	967.3128801	2.164322598	1.113915553	0.025444891	0.208964746	Up
AIDA	249.1152647	340.2553306	157.9751988	0.464284273	-1.10691968	0.031203455	0.236404504	Down
AIF1L	1272.754081	1767.885882	777.6222799	0.439859998	-1.18488369	0.004066163	0.064511448	Down
AIFM3	50.66828407	9.54834435	91.78822379	9.612998907	3.26498657	6.45E-06	0.000596575	Up
AIM1L	124.327877	35.03744766	213.6183063	6.09685695	2.608065697	0.004795652	0.072173265	Up
AK1	379.372472	609.6035822	149.1413618	0.244653027	-2.03119096	0.001880761	0.038163149	Down

AK4	503.69 58951	815.9445698	191.4472203	0.2346 3263	- 2.091524 43	5.86E- 05	0.0034 19145	Dow n
AK5	127.44 96915	176.2360263	78.66335677	0.4463 52306	- 1.163745 22	0.0167 13246	0.1642 99865	Dow n
AKAP1 2	2415.3 95887	4300.883498	529.9082751	0.1232 09167	- 3.020818 49	1.34E- 05	0.0010 78071	Dow n
AKAP2	4048.4 77689	5941.950292	2155.005086	0.3626 76391	- 1.463245 26	0.0014 14248	0.0318 49714	Dow n
AKT3	1706.7 34666	2412.948853	1000.52048	0.4146 46369	- 1.270046 64	0.0085 97769	0.1069 62179	Dow n
ALAD	1007.7 05432	632.9510203	1382.459844	2.1841 498	1.127071 807	0.0098 04022	0.1166 58804	Up
ALDH1 A3	899.22 47931	1295.359529	503.0900571	0.3883 78706	- 1.364463 99	0.0369 33452	0.2594 40239	Dow n
ALDH1 L2	593.80 39484	859.0108612	328.5970356	0.3825 29547	- 1.386356 91	0.0070 52947	0.0932 75739	Dow n
ALDH2	4751.9 27761	2727.336407	6776.519114	2.4846 6566	1.313051 734	0.0088 97564	0.1095 58474	Up
ALDH3 B1	804.65 33911	1201.52143	407.7853519	0.3393 90827	- 1.558980 52	0.0024 99574	0.0462 93442	Dow n
ALDH4 A1	522.88 28527	705.3673822	340.3983232	0.4825 83022	- 1.051150 93	0.0483 04735	0.2999 54943	Dow n
ALDOA	10660. 06027	14340.42353	6979.697003	0.4867 14844	- 1.038851 32	0.0138 62538	0.1461 52148	Dow n
ALOX1 2E	113.37 03683	13.48477803	213.2559586	15.814 56944	3.983182 373	0.0001 31881	0.0062 18686	Up
ALOX1 5B	490.79 48305	139.0604727	842.5291883	6.0587 25184	2.599014 268	0.0002 55352	0.0099 14059	Up
ALOX5	115.44 59588	76.16364598	154.7282717	2.0315 2396	1.022562 38	0.0453 6441	0.2892 51645	Up
ALOX5 AP	69.759 42045	43.49864367	96.02019722	2.2074 29684	1.142367 482	0.0471 19321	0.2959 31755	Up
ALPK3	1140.1 68648	1906.930822	373.4064745	0.1958 15428	- 2.352433	0.0231 28972	0.1984 41893	Dow n

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ANGPT 2	1182.4 16854	1896.057339	468.7763691	0.2472 37443	- 2.016030 84	6.05E- 06	0.0005 77382	Dow n
ANGPT 4	229.73 57606	382.9122256	76.55929559	0.1999 39544	- 2.322364 26	4.53E- 05	0.0028 07956	Dow n
ANGPT L1	796.97 05073	1299.936661	294.0043531	0.2261 68214	- 2.144531 91	0.0094 44332	0.1138 81218	Dow n
ANGPT L2	3380.9 36048	5476.849856	1285.022241	0.2346 27984	- 2.091553	0.0040 65936	0.0645 11448	Dow n
ANGPT L5	415.12 50119	829.9215613	0.328462454	0.0003 95775	- 11.30303 08	0.0005 16736	0.0158 7298	Dow n
ANK2	1497.9 4116	2625.990993	369.8913275	0.1408 57805	- 2.827688 59	0.0001 30701	0.0061 88232	Dow n
ANKR D1	120.78 12721	240.2463064	1.316237869	0.0054 78702	- 7.511950 21	0.0090 10952	0.1103 92717	Dow n
ANKR D33	22.354 82997	36.34618966	8.363470266	0.2301 05833	- 2.119630 54	0.0367 23423	0.2585 69019	Dow n
ANKR D33B	68.820 83229	23.65958683	113.9820778	4.8175 85303	2.268310 212	0.0141 07592	0.1479 57471	Up
ANKR D50	923.76 99616	1372.529664	475.010259	0.3460 83783	- 1.530806 75	0.0097 34902	0.1160 66026	Dow n
ANKR D63	13.250 21785	3.345149208	23.15528649	6.9220 48929	2.791199 139	0.0210 27552	0.1884 33187	Up
ANKR D9	34.367 87706	48.6004548	20.13529931	0.4143 02693	- 1.271242 9	0.0340 46962	0.2478 43661	Dow n
ANKS6	204.08 00196	317.1329919	91.02704727	0.2870 3115	- 1.800720 78	0.0028 04651	0.0501 9156	Dow n
ANLN	280.84 96572	505.8274723	55.8718421	0.1104 56322	- 3.178452 1	0.0342 54331	0.2485 57475	Dow n
ANO1	789.65 25265	456.2150957	1123.089957	2.4617 5536	1.299687 399	0.0027 15892	0.0488 9418	Up
ANO6	2448.2 90732	3656.027494	1240.553971	0.3393 17462	- 1.559292	0.0011 76312	0.0282 54985	Dow n

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ANO9	698.94 57078	306.878035	1091.013381	3.5552 01925	1.829931 503	0.0036 02865	0.0591 91673	Up
ANTXR 2	1849.4 42616	3094.386211	604.4990211	0.1953 5345	- 2.355841 36	0.0069 39052	0.0925 69328	Down
ANXA6	3590.5 78711	5021.616379	2159.541043	0.4300 48988	- 1.217427 08	0.0164 56441	0.1629 29608	Down
AOC3	4842.2 34663	7461.026581	2223.442744	0.2980 07616	- 1.746578 89	9.18E- 05	0.0047 06864	Down
AOX1	6996.8 84241	11030.67598	2963.092506	0.2686 2293	- 1.896345 63	0.0020 40879	0.0404 79788	Down
AOX3L 1	36.708 73487	7.510016717	65.90745302	8.7759 39589	3.133553 595	0.0376 9593	0.2623 75233	Up
AP1M2	868.57 75716	409.9764455	1327.178698	3.2372 07191	1.694749 705	0.0123 6334	0.1362 38418	Up
AP1S2	758.94 45474	1143.952827	373.9362684	0.3268 80847	- 1.613163 25	0.0055 17875	0.0792 10362	Down
AP3M2	134.98 60499	73.77930954	196.1927903	2.6591 84419	1.410983 834	0.0112 62834	0.1279 47691	Up
APBA1	393.87 97084	613.8090056	173.9504112	0.2833 95013	- 1.819113 72	0.0010 49478	0.0262 93809	Down
APOA1	712.33 03541	1064.015433	360.6452756	0.3389 4741	- 1.560866 65	0.0011 83332	0.0283 35987	Down
APOBR	675.50 50541	424.2056095	926.8044987	2.1848 00196	1.127501 349	0.0271 05941	0.2170 36494	Up
APOL3	682.20 00486	314.8455552	1049.554542	3.3335 53626	1.737060 935	0.0001 65141	0.0072 83565	Up
APOLD 1	1086.4 39138	1764.024846	408.8534307	0.2317 73057	- 2.109215 23	1.41E- 06	0.0001 85487	Down
AQP7	152.23 81336	301.2811134	3.195153744	0.0106 05224	- 6.559081 07	7.98E- 18	3.60E- 14	Down
AQPEP	399.83 38502	638.9263612	160.7413392	0.2515 80384	- 1.990908 66	0.0397 53365	0.2693 86183	Down
AR	56.406	103.3324788	9.479793182	0.0917	-	0.0201	0.1842	Down

	13599			40693	3.446294 39	83586	56939	n
ARAP2	442.47 08203	279.4833742	605.4582664	2.1663 48064	1.115265 057	0.0184 74729	0.1754 02962	Up
AREG	91.454 50862	8.243655271	174.665362	21.187 85372	4.405165 548	0.0027 97112	0.0501 06364	Up
ARHG AP11A	185.82 98675	257.5140232	114.1457117	0.4432 60178	- 1.173774 34	0.0229 11503	0.1972 79526	Dow n
ARHG AP23	510.49 40113	714.5258207	306.4622018	0.4289 02907	- 1.221277	0.0211 05592	0.1885 305	Dow n
ARHG AP29	2113.8 76079	2891.350903	1336.401256	0.4622 06526	- 1.113390 47	0.0236 44865	0.2008 14365	Dow n
ARHG AP30	592.21 06009	394.182022	790.2391799	2.0047 57031	1.003427 398	0.0313 05736	0.2368 80945	Up
ARHG AP31	1841.8 76541	2473.266289	1210.486792	0.4894 28412	- 1.030830 24	0.0168 12116	0.1647 33163	Dow n
ARHG AP4	459.20 36733	292.7709071	625.6364395	2.1369 48803	1.095552 344	0.0282 86699	0.2229 19947	Up
ARHG AP44	119.57 36535	182.7399606	56.40734652	0.3086 75488	- 1.695837 17	0.0028 6925	0.0509 93504	Dow n
ARHG AP6	258.55 27117	419.9538186	97.15160486	0.2313 38782	- 2.111920 95	0.0165 48585	0.1633 93505	Dow n
ARHG AP9	166.01 46368	87.65782219	244.3714515	2.7877 88304	1.479121 012	0.0039 27816	0.0631 49613	Up
ARHGE F16	1822.6 41751	587.4676216	3057.815881	5.2050 79853	2.379920 296	7.55E- 06	0.0006 84073	Up
ARHGE F19	430.57 16937	212.2835787	648.8598088	3.0565 70898	1.611914 031	0.0225 29101	0.1957 44636	Up
ARHGE F25	1623.8 67057	2428.479949	819.2541637	0.3373 52657	- 1.567670 57	0.0051 67109	0.0759 65342	Dow n
ARHGE F28	856.13 07916	338.0360522	1374.225531	4.0653 22388	2.023369 766	0.0182 4442	0.1737 65097	Up
ARHGE F37	202.64 35241	112.1341654	293.1528828	2.6143 04763	1.386427 334	0.0289 56683	0.2264 63509	Up
ARHGE F39	344.26 98973	220.6932636	467.8465309	2.1198 94931	1.083992 762	0.0181 63642	0.1731 78613	Up
ARHGE F5	854.30 86316	424.5026407	1284.114622	3.0249 86182	1.596928 552	0.0014 88038	0.0329 76314	Up

ARID5 B	1207.7 68604	1636.662314	778.8748935	0.4758 92239	- 1.071293 17	0.0245 80796	0.2055 69299	Dow n
ARL5A	231.89 7162	318.9705646	144.8237593	0.4540 34871	- 1.139124 99	0.0335 42034	0.2456 61693	Dow n
ARMC4	35.569 82728	62.6000461	8.539608452	0.1364 1537	- 2.873921 89	0.0201 28599	0.1840 34362	Dow n
ARRDC 3	789.17 13639	1081.606728	496.7360002	0.4592 57499	- 1.122624 82	0.0277 95771	0.2203 02248	Dow n
ARSE	1320.4 44341	276.4872701	2364.401412	8.5515 74223	3.096190 024	3.93E- 08	1.11E- 05	Up
ARSJ	274.75 57953	501.418633	48.09295767	0.0959 13782	- 3.382118 05	0.0168 46464	0.1649 26736	Dow n
ASAP1	733.84 9322	989.5393539	478.1592901	0.4832 14021	- 1.049265 78	0.0155 51476	0.1574 25965	Dow n
ASB1	79.221 12213	112.15019	46.29205429	0.4127 68398	- 1.276595 57	0.0343 49743	0.2489 61254	Dow n
ASIC2	11.149 41971	18.95946003	3.339379384	0.1761 32621	- 2.505265 97	0.0329 49409	0.2428 99216	Dow n
ASIC3	445.50 96952	32.7088748	858.3105156	26.240 90621	4.713745 638	5.22E- 07	8.88E- 05	Up
ASPH	2067.2 32249	2930.048035	1204.416463	0.4110 569	- 1.282589 98	0.0083 21536	0.1043 17014	Dow n
ASPHD 2	206.97 0612	321.3405029	92.60072119	0.2881 70089	- 1.795007 5	0.0017 44294	0.0367 06729	Dow n
ASPM	124.90 07463	183.4858958	66.31559678	0.3614 20677	- 1.468249 05	0.0166 48997	0.1641 99265	Dow n
ASPN	6710.5 71087	12830.64308	590.4990927	0.0460 22564	- 4.441514 83	0.0013 06619	0.0302 18075	Dow n
ASTN1	29.863 63615	59.72727229	0	0	#NAME ?	0.0074 39136	0.0966 12361	Dow n
ATG4A	203.00 55334	280.2864178	125.7246491	0.4485 57765	- 1.156634	0.0114 55044	0.1293 91066	Dow n

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ATG9B	154.33 07491	75.78989617	232.871602	3.0725 94287	1.619457 283	0.0162 46409	0.1614 25488	Up
ATL3	1430.5 1113	1979.315414	881.7068465	0.4454 60506	- 1.166630 56	0.0092 71866	0.1121 63852	Down
ATOH8	175.75 66241	260.6400531	90.87319511	0.3486 53993	- 1.520132 09	0.0047 929	0.0721 73265	Down
ATP10B	23.932 79079	3.191091167	44.67449041	13.999 75371	3.807329 542	0.0001 63998	0.0072 50885	Up
ATP13A 3	2966.5 42181	4456.090358	1476.994004	0.3314 55129	- 1.593114 52	0.0004 53357	0.0146 0376	Down
ATP1B3	985.49 38197	1366.95455	604.0330895	0.4418 8235	- 1.178265 79	0.0092 19698	0.1118 45413	Down
ATP2B4	1127.8 9864	1804.029671	451.767608	0.2504 21385	- 1.997570 33	0.0038 51495	0.0620 33142	Down
ATP4A	17.021 31319	3.741047328	30.30157905	8.0997 58275	3.017878 854	0.0409 66873	0.2732 99341	Up
ATP6V0 D2	34.354 78023	2.038327632	66.67123283	32.708 79115	5.031606 536	0.0005 64619	0.0168 6285	Up
ATP6V1 B1	52.948 82291	5.665373151	100.2322727	17.692 08665	4.145032 308	0.0007 86902	0.0212 18118	Up
ATP6V1 C2	950.41 05449	370.5334804	1530.287609	4.1299 57724	2.046127 014	0.0114 36114	0.1292 58182	Up
ATP7A	380.92 80609	512.7106218	249.1455001	0.4859 37855	- 1.041156 27	0.0288 88289	0.2263 75259	Down
ATP8A2	86.349 35035	10.38702452	162.3116762	15.626 38809	3.965912 444	0.0009 64772	0.0248 26714	Up
ATP8B1	982.70 00177	1383.402513	581.9975227	0.4207 00062	- 1.249136 06	0.0087 17828	0.1082 31864	Down
ATXN1	379.11 66483	515.9906032	242.2426934	0.4694 71134	- 1.090891 64	0.0217 50724	0.1913 98085	Down
AUNIP	16.924 78104	28.96637432	4.883187763	0.1685 81256	- 2.568483 96	0.0409 50733	0.2732 92739	Down
AVPI1	464.57 7257	637.3426176	291.8118965	0.4578 57185	- 1.127030	0.0209 57683	0.1884 01543	Down

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AXL	3912.0 00478	5362.505618	2461.495339	0.4590 19629	- 1.123372 25	0.0244 14536	0.2048 43638	Dow n
AZGP1	4887.2 17484	1848.014603	7926.420365	4.2891 54616	2.100693 323	0.0271 4042	0.2172 07645	Up
B3GAL NT1	829.34 14134	1276.552032	382.1307951	0.2993 4604	- 1.740113 91	0.0027 58871	0.0495 68998	Dow n
B3GNT 2	710.35 24228	957.1595198	463.5453257	0.4842 92656	- 1.046048 97	0.0389 6979	0.2660 77229	Dow n
B3GNT 9	436.42 84998	688.1458589	184.7111406	0.2684 18589	- 1.897443 51	0.0009 46663	0.0244 65417	Dow n
B4GAL NT1	72.378 3582	102.5100107	42.24670573	0.4121 22733	- 1.278854 05	0.0381 29168	0.2629 59243	Dow n
B4GAL NT4	159.33 84049	93.80239237	224.8744175	2.3973 20706	1.261422 921	0.0396 79938	0.2691 9383	Up
B4GAL T3	814.87 33028	506.3796333	1123.366972	2.2184 28425	1.149538 007	0.0111 39364	0.1268 66675	Up
BAG2	1014.4 27687	1774.510758	254.3446166	0.1433 32248	- 2.802564 86	0.0305 71629	0.2343 24948	Dow n
BAG3	1275.7 88607	1841.178365	710.3988491	0.3858 39233	- 1.373928 25	0.0066 42099	0.0897 50428	Dow n
BAI1	12.327 78579	22.63575258	2.019818994	0.0892 3136	- 3.486305 36	0.0117 93708	0.1323 76681	Dow n
BAIAP2 L1	470.29 17673	136.493814	804.0897207	5.8910 34157	2.558520 918	1.46E- 06	0.0001 90871	Up
BAIAP3	30.837 63691	12.89306335	48.78221048	3.7836 0124	1.919760 048	0.0156 85162	0.1581 00954	Up
BARD1	31.238 7541	48.52394652	13.95356167	0.2875 60322	- 1.798063 47	0.0372 4487	0.2614 24207	Dow n
BARX1	77.904 83808	147.8646583	7.9450179	0.0537 31689	- 4.218082 99	0.0002 83719	0.0106 86944	Dow n
BARX2	441.33 00492	190.187612	692.4724865	3.6409 96799	1.864333 472	0.0046 27613	0.0703 85754	Up
BBC3	146.78	67.11457008	226.4516586	3.3741	1.754505	0.0009	0.0253	Up

	31143			05776	202	98642	01271	
BCHE	357.69 57279	676.8020682	38.58938772	0.0570 17243	- 4.132457 92	0.0065 39838	0.0890 62785	Dow n
BCKDH A	1534.4 88207	984.9112604	2084.065154	2.1159 92819	1.081334 731	0.0467 59283	0.2946 42218	Up
BCL11 A	82.358 13289	37.61420856	127.1020572	3.3790 96945	1.756637 741	0.0198 58279	0.1829 53774	Up
BCL2A 1	73.996 97276	28.62436889	119.3695766	4.1702 08157	2.060119 398	0.0029 70605	0.0520 76522	Up
BCL2L 14	32.855 55003	6.068098968	59.64300109	9.8289 43365	3.297036 332	0.0022 43021	0.0433 67474	Up
BDA20	65.643 90406	6.219594305	125.0682138	20.108 74145	4.329750 885	1.16E- 08	4.56E- 06	Up
BDKRB 1	79.514 44825	145.5404434	13.48845309	0.0926 78384	- 3.431623 3	0.0409 35285	0.2732 90749	Dow n
BEGAI N	125.75 61838	181.3352437	70.17712388	0.3870 02121	- 1.369586 62	0.0203 34637	0.1850 73924	Dow n
BEST3	61.548 10422	19.20873908	103.8874694	5.4083 44033	2.435186 927	0.0429 01254	0.2800 92554	Up
BEX2	505.74 01274	217.4611877	794.0190671	3.6513 13944	1.868415 719	0.0030 16884	0.0525 81228	Up
BEX5	63.765 77598	35.28289192	92.24866004	2.6145 43622	1.386559 141	0.0457 70946	0.2907 83181	Up
BHLHE 40	2453.4 33786	3625.751259	1281.116313	0.3533 3817	- 1.500878 49	0.0356 20365	0.2534 8453	Dow n
BHLHE 41	574.47 35271	327.6230321	821.3240221	2.5069 17835	1.325914 712	0.0325 58386	0.2424 05147	Up
BHMT2	244.38 30018	21.14055341	467.6254501	22.119 83012	4.467268 401	0.0001 61612	0.0071 9833	Up
BICD1	548.13 43576	320.7275192	775.541196	2.4180 68764	1.273855 272	0.0309 96584	0.2360 01279	Up
BIN2	414.79 77625	199.1909257	630.4045994	3.1648 25894	1.662126 135	0.0017 46676	0.0367 06729	Up
BLNK	136.74 03579	52.6941205	220.7865954	4.1899 66419	2.066938 681	0.0003 47284	0.0124 05248	Up
BMF	913.49 63251	555.8001978	1271.192452	2.2871 39259	1.193544 211	0.0055 88179	0.0795 62089	Up
BMP1	1915.8 08522	2774.069109	1057.547936	0.3812 2624	- 1.391280 67	0.0018 00126	0.0371 11403	Dow n

BMP2	91.789 83775	132.7244191	50.85525643	0.3831 6428	- 1.383965 02	0.0040 10235	0.0641 31758	Dow n
BMP4	643.76 39386	1066.163163	221.3647142	0.2076 27427	- 2.267931 06	0.0008 5391	0.0225 8604	Dow n
BMP5	61.384 74844	106.2710613	16.49843555	0.1552 48619	- 2.687347 66	9.93E- 05	0.0049 78884	Dow n
BMX	125.43 91221	172.6171426	78.26110166	0.4533 79661	- 1.141208 42	0.0273 53476	0.2183 3157	Dow n
BNC2	893.28 61083	1628.543679	158.0285372	0.0970 3672	- 3.365325 4	0.0037 83833	0.0610 52383	Dow n
BNIP2	329.09 37569	500.6031119	157.584402	0.3147 89098	- 1.667542 52	0.0013 34119	0.0306 96652	Dow n
BOLA- DMA	596.18 51339	387.1376214	805.2326465	2.0799 64855	1.056559 152	0.0223 33977	0.1946 29282	Up
BOLA- DMB	1207.5 42454	787.5378094	1627.547098	2.0666 27251	1.047278 199	0.0217 10834	0.1913 51941	Up
BOLA- DOA	89.638 26992	51.33914291	127.9373969	2.4920 04924	1.317306 919	0.0299 10086	0.2309 7091	Up
BOLA- DRB3	2282.2 91041	1436.542418	3128.039664	2.1774 78106	1.122658 213	0.0103 06355	0.1208 81887	Up
BPIFA2 A	7.2544 30711	14.50886142	0	0	#NAME ?	0.0138 27315	0.1458 66049	Dow n
BRB	1089.1 28411	698.7477563	1479.509066	2.1173 72189	1.082274 887	0.0123 11178	0.1357 4654	Up
BRI3BP	469.96 05566	292.9523397	646.9687736	2.2084 43784	1.143030 109	0.0458 21374	0.2907 83181	Up
BRINP1	15.454 52676	4.611914552	26.29713898	5.7020 00477	2.511468 16	0.0211 1157	0.1885 305	Up
BRINP2	25.890 43551	51.78087102	0	0	#NAME ?	0.0160 09964	0.1600 02074	Dow n
BSP1	9.1896 65604	0.975908839	17.40342237	17.833 04103	4.156480 838	0.0161 0713	0.1606 17201	Up
BSP5	1316.1 33293	65.13001609	2567.13657	39.415 56788	5.300693 655	0.0007 40054	0.0205 57378	Up
BSPRY	724.79 32099	296.7530984	1152.833321	3.8848 232	1.957848 943	0.0082 11355	0.1030 79075	Up
BTBD1 0	435.72 68113	636.9471992	234.5064234	0.3681 7247	- 1.441546	0.0241 91352	0.2040 14865	Dow n

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BTBD19	215.6061739	322.1917599	109.020588	0.338371745	-1.56331899	0.001816336	0.037339145	Down
BTC	279.0587031	70.54710213	487.570304	6.911273309	2.788951532	0.000430912	0.014248211	Up
BVES	198.0395365	386.1575698	9.921503198	0.025692888	-5.28248712	0.001311227	0.03028582	Down
C10H14orf37	394.9706868	57.24914945	732.6922241	12.79830759	3.67788114	0.000471799	0.01495744	Up
C10H15orf48	707.2856969	218.3847497	1196.186644	5.477427547	2.453498496	0.000509743	0.015774927	Up
C10H15orf52	1385.878836	2171.38354	600.3741321	0.276493821	-1.85468085	0.021776706	0.191437624	Down
C10H15orf59	121.5910908	186.825333	56.35684866	0.301655283	-1.72902725	0.004319775	0.066912591	Down
C11H2orf40	99.52310653	158.4466329	40.5995802	0.256235046	-1.96446029	0.001255852	0.029534737	Down
C13H20orf194	940.7140471	1387.43534	493.9927543	0.356047406	-1.48985875	0.040042426	0.270028158	Down
C15H11orf34	268.4687102	35.01696457	501.9204558	14.33363691	3.841332809	7.27E-05	0.004002829	Up
C15H11orf52	135.6639625	33.58913242	237.7387927	7.077848563	2.823310894	9.18E-07	0.000140895	Up
C15H11orf70	37.35165767	62.43446516	12.26885018	0.196507652	-2.3473426	0.00242515	0.04552267	Down
C16H1orf116	463.6474696	120.8951596	806.3997796	6.670240417	2.737738762	0.001114403	0.027362813	Up
C16H1orf167	46.98378206	8.414112476	85.55345164	10.16785215	3.345943053	0.006108899	0.085029651	Up
C18H19orf84	28.68952839	45.10210797	12.27694881	0.272203437	-1.87724281	0.016065303	0.16037664	Down
C1GALT1	238.4171934	324.7726247	152.0617621	0.468209912	-1.09477262	0.012180965	0.134722518	Down
C1H3orf52	15.83266978	3.741047328	27.92429223	7.464298037	2.900006592	0.00711489	0.093682841	Up

C1H3orf70	53.84541162	82.36432796	25.32649529	0.307493498	-1.70137219	0.013476727	0.143765035	Down
C1QL3	14.99084444	28.38125673	1.600432159	0.056390461	-4.14840504	0.038262322	0.263541059	Down
C1QTNF1	3057.543426	5736.894974	378.1918777	0.065922747	-3.92307982	3.96E-11	3.47E-08	Down
C1QTNF2	205.6026796	370.4139255	40.79143368	0.11012392	-3.18280022	0.024660428	0.205948828	Down
C1QTNF3	1992.512948	3907.170929	77.85496776	0.019926174	-5.64919146	2.66E-05	0.001863858	Down
C1QTNF6	515.5366501	767.1962713	263.8770289	0.343949832	-1.53972994	0.011951854	0.133156085	Down
C1R	6108.863754	9253.935984	2963.791525	0.320273614	-1.64262315	0.007107927	0.093659534	Down
C1S	9788.918719	14005.50791	5572.329524	0.397867008	-1.32964182	0.035303188	0.252610252	Down
C2	2619.767596	4490.463826	749.0713664	0.166813807	-2.58368939	0.003520351	0.058430708	Down
C23H6orf10	34.52400851	3.663497568	65.38451945	17.84756731	4.157655538	0.012009729	0.133395784	Up
C23H6orf132	650.615053	268.5591885	1032.670917	3.845226534	1.943068594	0.008827701	0.109070473	Up
C25H16orf45	85.52588778	20.35832864	150.6934469	7.402053951	2.887925651	4.04E-05	0.002615309	Up
C25H16orf89	43.30519952	4.523272101	82.08712695	18.14773136	4.181717303	3.82E-05	0.002508484	Up
C25H16orf93	173.7012305	112.2255702	235.1768908	2.095573143	1.067344878	0.031589884	0.238150572	Up
C25H7orf61	55.88385654	12.16582229	99.60189079	8.187024964	3.033339294	1.68E-05	0.001289097	Up
C27H8orf48	41.23939678	71.30245238	11.17634118	0.156745537	-2.67350373	0.000954562	0.024634265	Down
C28H10orf71	39.20087384	77.46395101	0.937796677	0.012106233	-6.368106	0.002595112	0.047321709	Down

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C28H1orf198	417.0604554	601.4767534	232.6441573	0.386788277	-1.37038402	0.004988148	0.074364624	Down
C2CD4D	10.75823581	2.811592211	18.70487942	6.652771103	2.733955397	0.045378466	0.289251645	Up
C2H2orf72	222.9502789	63.13720122	382.7633565	6.062406143	2.599890507	2.86E-06	0.000325976	Up
C2H2orf88	64.19512048	125.8953458	2.494895141	0.019817215	-5.65710196	0.000415843	0.013891475	Down
C3H1orf210	758.4212885	202.2967993	1314.545778	6.498104679	2.700018984	0.03864739	0.265079948	Up
C4BPA	126.0711808	1.308954073	250.8334075	191.6288835	7.582171219	0.006107953	0.085029651	Up
C5AR2	349.8008362	564.5103663	135.0913061	0.239307042	-2.06306524	0.000245058	0.00973701	Down
C5H12orf75	248.6990708	435.0341657	62.363976	0.143354203	-2.80234389	0.01537466	0.156602757	Down
C5H22orf23	39.82108362	17.78943692	61.85273032	3.476935813	1.797816434	0.014523914	0.151181121	Up
C6H4orf19	697.1387826	272.7590937	1121.518472	4.111754649	2.03975418	0.003100171	0.053464611	Up
C7H19orf57	30.48165623	10.12365987	50.83965259	5.021864943	2.32822323	0.00352398	0.058430708	Up
C7H5orf45	254.6596284	146.1092314	363.2100254	2.485880064	1.313756692	0.005900689	0.082899168	Up
C8G	472.7173589	307.4236563	638.0110615	2.075347972	1.053353252	0.034073523	0.247843661	Up
C8H9orf152	332.1984669	92.97906988	571.4178639	6.145661219	2.61956824	3.37E-07	6.42E-05	Up
C8H9orf3	1946.886835	2678.730632	1215.043038	0.453589108	-1.1405421	0.044869994	0.287943731	Down
C9H6orf211	525.6614047	342.9580403	708.3647691	2.065456079	1.046460382	0.012032176	0.13348611	Up
CA12	53.3180379	17.55356412	89.08251167	5.074895961	2.343378246	0.002885626	0.051083234	Up
CA13	4.664865566	9.329731132	0	0	#NAME?	0.027915968	0.220989441	Down
CA5B	182.5008933	285.9494649	79.05232179	0.276455568	-1.854880	0.002108697	0.041220089	Down

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CA8	867.78 74339	86.44539221	1649.129476	19.077 12411	4.253771 795	2.34E- 15	6.02E- 12	Up
CA9	120.33 1235	72.08783259	168.5746374	2.3384 61725	1.225559 816	0.0326 03652	0.2424 30868	Up
CACNA 1A	368.04 19716	590.9369501	145.1469931	0.2456 21793	- 2.025489 53	0.0011 15565	0.0273 62813	Dow n
CACNA 1C	1277.7 60597	2097.589358	457.9318357	0.2183 13386	- 2.195527 5	0.0327 10157	0.2425 27832	Dow n
CACNA 1D	140.92 35621	226.9669363	54.8801879	0.2417 98161	- 2.048124 82	0.0003 26108	0.0118 60197	Dow n
CACNA 1S	309.53 86796	80.34657787	538.7307813	6.7050 86832	2.745256 015	0.0012 9771	0.0300 89198	Up
CACNA 2D1	1031.8 17254	1667.180305	396.454202	0.2377 99235	- 2.072184 02	0.0057 79341	0.0816 39417	Dow n
CACNA 2D2	33.299 17805	11.18778095	55.41057516	4.9527 76193	2.308237 43	0.0034 36345	0.0574 8772	Up
CACNB 2	192.76 76867	330.0153924	55.51998108	0.1682 3452	- 2.571454 33	0.0072 76489	0.0951 16362	Dow n
CACNG 4	20.465 21106	34.25737392	6.673048194	0.1947 91586	- 2.359996 73	0.0144 42971	0.1507 73585	Dow n
CADM1	1428.0 78196	868.4611873	1987.695204	2.2887 55367	1.194563 269	0.0117 27004	0.1318 02757	Up
CADM3	501.78 8558	841.465266	162.1118499	0.1926 54238	- 2.375914 17	1.34E- 06	0.0001 7894	Dow n
CADM4	223.24 24934	132.0778337	314.4071531	2.3804 68731	1.251245 678	0.0125 59353	0.1376 4166	Up
CALCR L	427.43 79483	653.8191345	201.0567622	0.3075 11285	- 1.701288 74	0.0005 54859	0.0165 98835	Dow n
CALD1	23819. 29118	40086.70839	7551.873972	0.1883 88478	- 2.408217 37	0.0105 45931	0.1225 05396	Dow n
CALH M2	391.58 81815	608.4385733	174.7377897	0.2871 90519	- 1.799919 97	0.0003 69038	0.0129 78894	Dow n
CALM1	9263.4	12541.59743	5985.334032	0.4772	-	0.0105	0.1222	Dow

	65729			38571	1.067217 45	05958	69014	n
CALU	6419.2 92889	10390.06209	2448.523686	0.2356 60159	- 2.085220 22	2.36E- 05	0.0016 80541	Dow n
CAMK1	582.19 99934	879.0181861	285.3818008	0.3246 59723	- 1.622999 68	0.0015 98584	0.0347 85104	Dow n
CAMK1 D	501.67 69141	745.1044766	258.2493516	0.3465 94819	- 1.528678	0.0348 82064	0.2511 25253	Dow n
CAMK2 G	656.05 21302	915.2249761	396.8792843	0.4336 4123	- 1.205426 16	0.0130 42271	0.1410 48873	Dow n
CAMK4	79.718 07194	36.63362305	122.8025208	3.3521 80609	1.745099 881	0.0025 87964	0.0473 21709	Up
CAMS AP3	1203.5 91668	490.7453719	1916.437964	3.9051 57488	1.965380 731	7.14E- 05	0.0039 67823	Up
CAP2	355.90 45021	655.6111621	56.1978422	0.0857 18251	- 3.544253 77	0.0043 82582	0.0676 86127	Dow n
CAPN1 4	231.89 31228	1.770697989	462.0155477	260.92 28398	8.027479 425	0.0109 76581	0.1256 3867	Up
CAPN2	4476.1 99171	6640.527689	2311.870653	0.3481 45624	- 1.522237 21	0.0015 66741	0.0342 16033	Dow n
CAPN3	58.633 75866	11.95934324	105.3081741	8.8055 14815	3.138407 354	4.99E- 06	0.0005 00664	Up
CAPN5	1322.0 59416	837.0824846	1807.036348	2.1587 31525	1.110183 831	0.0162 51598	0.1614 25488	Up
CAPN6	487.04 35763	317.8929956	656.194157	2.0641 98224	1.045581 519	0.0252 80905	0.2083 73556	Up
CAPSL	81.804 43971	8.481230356	155.1276491	18.290 70106	4.193038 468	1.93E- 09	1.02E- 06	Up
CASC5	128.15 78177	179.7467504	76.56888495	0.4259 82026	- 1.231135 54	0.0340 12057	0.2478 43661	Dow n
CASK	705.62 12098	1110.293891	300.9485284	0.2710 53035	- 1.883352 94	0.0001 54346	0.0069 78082	Dow n
CASKI N1	56.872 57807	15.31728743	98.4278687	6.4259 33387	2.683906 026	0.0001 74237	0.0075 7364	Up
CASQ1	380.40 61309	719.5762109	41.23605086	0.0573 06023	- 4.125169 41	0.0216 97023	0.1913 51941	Dow n

CAST	4992.7 51811	7511.860238	2473.643385	0.3292 98377	- 1.602532 69	0.0019 78673	0.0397 0332	Dow n
CAV1	11715. 1703	15981.6708	7448.66979	0.4660 75787	- 1.101363 53	0.0047 41904	0.0718 81685	Dow n
CAV2	617.25 7571	929.3399136	305.1752284	0.3283 7848	- 1.606568 51	0.0003 30494	0.0119 71432	Dow n
CBLC	798.62 2139	210.1529859	1387.091292	6.6003 88219	2.722550 883	3.03E- 05	0.0020 76084	Up
CBLN2	47.456 31482	94.91262964	0	0	#NAME ?	0.0001 13117	0.0055 58799	Dow n
CBX6	369.98 7608	525.5598237	214.4153923	0.4079 75234	- 1.293446 52	0.0159 33904	0.1594 43543	Dow n
CC2D2 B	661.05 45055	921.7412712	400.3677397	0.4343 60218	- 1.203036 12	0.0180 45656	0.1726 22923	Dow n
CCBE1	115.85 21804	195.1405397	36.563821	0.1873 71732	- 2.416024 78	0.0020 42054	0.0404 79788	Dow n
CCBL1	121.43 17781	79.21816929	163.6453868	2.0657 55726	1.046669 667	0.0375 99476	0.2623 50059	Up
CCDC1 09B	129.75 6828	215.6879067	43.82574917	0.2031 90572	- 2.299094 63	0.0006 90927	0.0194 13749	Dow n
CCDC1 25	208.01 34605	125.9756643	290.0512567	2.3024 38795	1.203162 806	0.0251 49356	0.2076 49151	Up
CCDC1 36	281.26 9704	518.4465962	44.09281174	0.0850 47934	-3.55558	0.0004 07509	0.0136 89126	Dow n
CCDC1 38	240.69 85554	148.396657	333.0004538	2.2439 88919	1.166065 552	0.0191 78986	0.1792 59742	Up
CCDC1 41	166.75 39254	270.8435203	62.6643304	0.2313 67287	- 2.111743 2	0.0191 9054	0.1792 59742	Dow n
CCDC1 51	30.696 15601	53.8347684	7.557543612	0.1403 84065	- 2.832548 91	0.0032 32455	0.0550 61627	Dow n
CCDC1 55	39.095 61992	11.89606015	66.29517969	5.5728 68569	2.478420 129	0.0244 74779	0.2051 58245	Up
CCDC1 58	110.11 29148	26.98960895	193.2362206	7.1596 52477	2.839889 562	5.06E- 06	0.0005 03799	Up
CCDC1	145.72	67.44820805	224.0048438	3.3211	1.731677	0.0050	0.0753	Up

60	65259			38548	909	88154	72941	
CCDC1 70	249.99 02392	101.9186952	398.0617832	3.9056 79743	1.965573 656	0.0001 40783	0.0064 85021	Up
CCDC1 81	8.5775 58765	0.929455117	16.22566241	17.457 17692	4.125748 368	0.0191 04471	0.1788 4045	Up
CCDC2 8A	185.33 89418	109.338149	261.3397346	2.3901 97172	1.257129 634	0.0132 17853	0.1421 8059	Up
CCDC3	6224.1 7762	10978.52944	1469.825804	0.1338 81848	- 2.900967 73	0.0430 95983	0.2810 58724	Down
CCDC3 0	86.708 56873	52.81154543	120.605592	2.2836 97458	1.191371 536	0.0305 46371	0.2342 79757	Up
CCDC3 9	39.896 287	15.82335257	63.96922142	4.0427 09731	2.015322 621	0.0070 39759	0.0931 69631	Up
CCDC5 7	496.05 16942	303.0739473	689.0294412	2.2734 69717	1.184895 787	0.0062 39608	0.0863 16172	Up
CCDC6 4	2867.1 14222	959.0884079	4775.140037	4.9788 3198	2.315807 33	0.0017 4789	0.0367 06729	Up
CCDC6 4B	212.06 29274	52.71306383	371.4127909	7.0459 34421	2.816791 047	3.27E- 07	6.33E- 05	Up
CCDC6 7	178.71 51793	63.90762294	293.5227357	4.5929 2213	2.199412 324	0.0354 22992	0.2528 67175	Up
CCDC6 8	277.99 44397	71.34162966	484.6472497	6.7933 30233	2.764118 987	0.0110 92674	0.1265 65941	Up
CCDC6 9	573.26 69393	981.479572	165.0543066	0.1681 68866	- 2.572017 46	4.30E- 06	0.0004 46	Down
CCDC7	21.067 53182	4.763409889	37.37165374	7.8455 67485	2.971877 804	0.0023 34451	0.0444 21066	Up
CCDC8 0	18101. 50902	31796.48009	4406.537945	0.1385 85716	- 2.851149 53	0.0140 45891	0.1475 67753	Down
CCDC8 5C	553.17 19941	325.8807437	780.4632445	2.3949 3514	1.259986 585	0.0132 37065	0.1423 02393	Up
CCDC8 8A	749.64 7306	1088.711029	410.5835829	0.3771 28156	- 1.406873 23	0.0074 35142	0.0966 12361	Down
CCDC8 8B	231.00 48237	152.5199531	309.4896942	2.0291 75121	1.020893 377	0.0384 7481	0.2643 45915	Up
CCL16	204.18 01388	294.4498567	113.9104208	0.3868 58469	- 1.370122 24	0.0102 64589	0.1204 70344	Down
CCL21	482.78 26321	659.8338465	305.7314177	0.4633 46067	- 1.109837	0.0397 82959	0.2693 86183	Down

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CCL22	21.398 37321	5.273740025	37.52300639	7.1150 6563	2.830877 064	0.0068 92571	0.0921 68341	Up
CCL28	357.41 32795	39.24577598	675.580783	17.214 1018	4.105519 001	3.17E- 13	4.39E- 10	Up
CCL5	281.60 07044	146.6365224	416.5648864	2.8407 99002	1.506296 759	0.0024 8978	0.0461 59446	Up
CCM2L	100.70 52117	149.1808146	52.22960881	0.3501 09422	- 1.514122 21	0.0049 93499	0.0743 82929	Down
CCND2	160.55 81223	246.3687172	74.74752733	0.3033 9699	- 1.720721 32	0.0020 20839	0.0403 2513	Down
CCNE2	83.926 6396	122.7699258	45.08335341	0.3672 18218	- 1.445290 46	0.0084 30427	0.1052 4323	Down
CCNF	161.75 94835	222.738419	100.7805481	0.4524 6145	- 1.144133 22	0.0490 30322	0.3025 85691	Down
CCSER 1	143.07 13155	93.30534303	192.837288	2.0667 33606	1.047352 443	0.0309 86492	0.2360 01279	Up
CCSER 2	481.21 82333	646.5031265	315.9333401	0.4886 80297	- 1.033037 16	0.0498 00621	0.3049 20735	Down
CD109	1279.2 04896	1989.591543	568.8182486	0.2858 96998	- 1.806432 63	0.0061 06722	0.0850 29651	Down
CD177	54.301 39126	18.83672863	89.7660539	4.7654 80018	2.252621 542	0.0208 93567	0.1882 61267	Up
CD1E	66.184 47158	35.0402285	97.32871466	2.7776 27853	1.473853 32	0.0166 66603	0.1641 99265	Up
CD2	177.29 35232	103.8101361	250.7769103	2.4157 26631	1.272457 206	0.0225 32508	0.1957 44636	Up
CD200	182.89 23719	287.9495626	77.83518124	0.2703 08385	- 1.887321 83	0.0358 72486	0.2543 64694	Down
CD207	21.086 98446	2.592548787	39.58142013	15.267 37716	3.932380 332	0.0001 56565	0.0070 25544	Up
CD209	188.27 51529	368.2220705	8.328235198	0.0226 17425	- 5.466421 48	0.0010 57761	0.0264 27904	Down
CD244	191.20 53106	115.6359229	266.7746983	2.3070 22694	1.206032 195	0.0150 6165	0.1549 50462	Up
CD247	402.62	214.1504137	591.099513	2.7602	1.464776	0.0020	0.0406	Up

	49633			07196	568	57348	48956	
CD248	4158.0 15537	7520.693247	795.3378276	0.1057 5326	- 3.241225 96	1.90E- 08	6.47E- 06	Dow n
CD27	176.00 55983	68.13733184	283.8738647	4.1662 01655	2.058732 671	0.0391 54464	0.2669 34007	Up
CD276	1423.3 92245	2167.867131	678.91736	0.3131 72957	- 1.674968 46	0.0014 47562	0.0323 97724	Dow n
CD300E	37.060 31237	15.52396608	58.59665865	3.7745 93319	1.916321 215	0.0134 75406	0.1437 65035	Up
CD302	1317.6 95893	1862.690191	772.7015956	0.4148 30979	- 1.269404 46	0.0068 91975	0.0921 68341	Dow n
CD37	178.01 2562	117.1543675	238.8707566	2.0389 40261	1.027819 506	0.0434 60818	0.2821 12159	Up
CD3D	230.35 955	127.1077327	333.6113674	2.6246 34713	1.392116 648	0.0063 72324	0.0876 14597	Up
CD3E	593.20 55822	273.8813026	912.5298617	3.3318 44317	1.736320 991	0.0003 52085	0.0125 02466	Up
CD3G	165.04 78758	77.48453462	252.611217	3.2601 50147	1.704938 41	0.0011 60925	0.0280 34715	Up
CD5	115.20 3815	58.45475173	171.9528783	2.9416 40725	1.556621 055	0.0461 94999	0.2925 95362	Up
CD52	461.07 87474	247.2381822	674.9193126	2.7298 34472	1.448813 473	0.0022 90041	0.0439 46867	Up
CD55	382.92 72577	665.6619499	100.1925654	0.1505 15687	- 2.732014 24	0.0041 90907	0.0653 97719	Dow n
CD59	6908.8 32892	3274.541804	10543.12398	3.2197 24961	1.686937 454	0.0004 13384	0.0138 34954	Up
CD5L	66.143 62097	110.6809924	21.6062495	0.1952 11924	- 2.356886 91	2.54E- 05	0.0018 04699	Dow n
CD6	96.478 39813	56.46414991	136.4926464	2.4173 32884	1.273416 156	0.0435 76874	0.2824 58939	Up
CD7	296.07 13637	103.1253453	489.017382	4.7419 70855	2.245486 796	0.0016 64171	0.0356 92935	Up
CD74	25100. 04729	15577.89205	34622.20252	2.2225 21662	1.152197 48	0.0112 20728	0.1276 23403	Up
CD83	190.61 9896	112.7203616	268.5194304	2.3821 73253	1.252278 343	0.0090 03277	0.1103 92717	Up
CD84	140.65 86166	79.26206031	202.0551729	2.5492 04148	1.350046 913	0.0108 09984	0.1243 66846	Up

CD8A	134.59 97933	65.9709478	203.2286387	3.0805 77823	1.623200 982	0.0028 93565	0.0511 23429	Up
CD96	218.69 87404	92.36115397	345.0363268	3.7357 29925	1.901390 159	0.0002 1708	0.0088 59496	Up
CD99	9581.5 69759	15010.5557	4152.583822	0.2766 44243	- 1.853896 19	9.94E- 05	0.0049 78884	Down
CDC42 BPA	911.97 06046	1289.182912	534.7582976	0.4148 04054	- 1.269498 1	0.0100 16663	0.1184 99792	Down
CDC42 BPG	1722.8 75598	921.7181598	2524.033037	2.7384 0003	1.453333 213	0.0014 18898	0.0318 74848	Up
CDC42 EP2	285.07 75404	457.3590103	112.7960706	0.2466 24792	- 2.019610 26	4.28E- 05	0.0026 88224	Down
CDCP1	809.17 87473	410.6250505	1207.732444	2.9412 04982	1.556407 334	0.0013 86862	0.0314 58359	Up
CDH1	2020.7 62323	552.2418135	3489.282832	6.3183 96664	2.659558 511	1.37E- 05	0.0010 9603	Up
CDH11	2673.4 89635	4433.209004	913.7702673	0.2061 19375	- 2.278447 97	0.0004 5093	0.0145 51557	Down
CDH13	4335.1 87424	6470.667602	2199.707247	0.3399 50587	- 1.556603 04	0.0041 77226	0.0653 61438	Down
CDH26	25.330 28146	6.222157009	44.43840592	7.1419 61518	2.836320 361	0.0018 72102	0.0380 75	Up
CDHR1	10.604 62086	3.144637445	18.06460427	5.7445 74561	2.522200 052	0.0430 28075	0.2807 17342	Up
CDHR4	85.297 93928	161.5221821	9.073696433	0.0561 76163	- 4.153898 1	0.0225 73393	0.1958 64091	Down
CDK14	876.22 16194	1308.231469	444.2117703	0.3395 51357	- 1.558298 3	0.0034 31501	0.0574 75259	Down
CDK18	236.99 97401	108.273149	365.7263313	3.3778 11902	1.756088 992	0.0016 40282	0.0352 6895	Up
CDKL4	36.390 61188	60.249568	12.53165575	0.2079 95778	- 2.265373 85	0.0155 23794	0.1573 22315	Down
CDKN1 C	451.90 07829	686.8512966	216.9502692	0.3158 62065	- 1.662633 41	0.0332 53289	0.2444 40131	Down
CDKN2	395.69	593.2462363	198.1506532	0.3340	-	0.0016	0.0351	Down

C	84448			10805	1.582033 32	27484	59493	n
CDKN3	26.633 81781	44.15153995	9.116095661	0.2064 72881	- 2.275975 79	0.0214 72571	0.1904 34472	Dow n
CDR2L	944.76 53017	1455.3149	434.215703	0.2983 65462	- 1.744847 55	0.0004 06403	0.0136 89126	Dow n
CDS1	175.42 65926	45.79737405	305.0558111	6.6609 89138	2.735736 429	0.0006 34633	0.0182 86337	Up
CEACA M19	220.50 86056	90.39482048	350.6223908	3.8787 88507	1.955606 114	0.0004 5516	0.0146 35717	Up
CECR1	160.39 87328	74.76948504	246.0279806	3.2904 86493	1.718300 9	0.0019 92744	0.0399 41233	Up
CELA3 B	10.566 02098	21.13204196	0	0	#NAME ?	0.0139 65213	0.1469 76942	Dow n
CELF6	347.01 31689	133.1263479	560.8999899	4.2132 90597	2.074947 424	8.68E- 05	0.0045 20444	Up
CELSR 1	931.04 19052	490.3807787	1371.703032	2.7972 20224	1.483993 841	0.0172 03005	0.1674 71673	Up
CELSR 2	451.02 87658	226.376189	675.6813426	2.9847 72143	1.577620 8	0.0095 26681	0.1145 78149	Up
CEMIP	479.65 67874	950.9058363	8.407738429	0.0088 4182	- 6.821440 89	0.0401 16873	0.2701 26271	Dow n
CENPF	378.32 44381	540.2040383	216.4448378	0.4006 7238	- 1.319505 03	0.0236 1187	0.2006 28601	Dow n
CENPM	195.09 27056	317.4357951	72.74961616	0.2291 78994	- 2.125453 28	0.0017 79048	0.0368 45281	Dow n
CENPV	203.97 67974	121.6644268	286.2891679	2.3531 04974	1.234565 682	0.0200 41329	0.1837 02003	Up
CEP170	904.79 08164	1246.880561	562.7010714	0.4512 87067	- 1.147882 66	0.0207 48286	0.1876 3021	Dow n
CEP170 B	1973.0 03352	1266.453458	2679.553246	2.1157 92909	1.081198 425	0.0243 78555	0.2046 36926	Up
CEP85L	272.32 75902	374.4520771	170.2031033	0.4545 39082	- 1.137523 75	0.0233 42765	0.1992 80708	Dow n
CEP97	139.19 84452	190.8035066	87.59338383	0.4590 76384	- 1.123193 88	0.0405 75889	0.2718 97645	Dow n

CERCA M	1614.6 16689	2796.881631	432.351746	0.1545 83498	- 2.693541 78	0.0017 70238	0.0367 89544	Dow n
CERS4	71.877 4862	40.80851077	102.9464616	2.5226 71367	1.334952 276	0.0228 83502	0.1972 79526	Up
CES4A	23.109 74909	1.332180934	44.88731725	33.694 61017	5.074445 93	3.88E- 06	0.0004 1441	Up
CFAP43	19.589 43911	4.651970784	34.52690744	7.4219 95761	2.891807 177	0.0235 12015	0.2002 23737	Up
CFAP44	97.152 38431	60.26980195	134.0349667	2.2239 15831	1.153102 187	0.0260 94709	0.2121 32701	Up
CFAP46	170.24 14439	30.00854063	310.4743472	10.346 19947	3.371029 007	1.37E- 08	5.24E- 06	Up
CFAP54	105.45 98661	53.5321894	157.3875428	2.9400 54284	1.555842 793	0.0421 62464	0.2771 25457	Up
CFAP74	30.017 92737	6.953663066	53.08219168	7.6337 02005	2.932382 869	0.0015 19844	0.0333 94	Up
CFB	5382.4 93425	9735.810968	1029.175882	0.1057 10339	- 3.241811 6	0.0004 95363	0.0154 59942	Dow n
CFI	1026.7 9526	301.8848867	1751.705633	5.8025 6154	2.536689 918	0.0164 83455	0.1630 18113	Up
CFL2	2161.8 89442	3990.909945	332.8689392	0.0834 06778	- 3.583691 56	0.0022 47697	0.0434 11352	Dow n
CGN	1916.0 48678	837.426476	2994.67088	3.5760 40364	1.838363 021	0.0036 7442	0.0597 68133	Up
CGREF 1	522.69 17521	990.5451965	54.83830778	0.0553 61742	- 4.174966 85	4.16E- 05	0.0026 4502	Dow n
CHI3L1	5174.5 76579	2767.617878	7581.53528	2.7393 7213	1.453845 262	0.0016 76154	0.0357 82139	Up
CHI3L2	28.677 65558	0.642863606	56.71244755	88.218 47597	6.463008 932	4.72E- 08	1.25E- 05	Up
CHL1	77.632 65464	127.3696071	27.8957022	0.2190 13804	- 2.190906 29	0.0084 77805	0.1057 61493	Dow n
CHML	252.06 39032	345.0519629	159.0758435	0.4610 19964	- 1.117098 87	0.0339 19064	0.2475 18604	Dow n
CHN1	516.90 06621	815.8432778	217.9580463	0.2671 56759	- 1.904241 58	0.0064 39256	0.0880 81407	Dow n
CHPF	1653.5	2295.482934	1011.639782	0.4407	-	0.0118	0.1323	Dow

	61358			0891	1.18210203	07422	76681	n
CHRDL1	1522.941243	2733.819513	312.0629724	0.114149076	-3.13100891	3.82E-06	0.000410362	Down
CHRDL2	572.1393248	1091.550492	52.72815783	0.048305743	-4.37166146	0.000183312	0.007780616	Down
CHRNB1	182.2874023	116.9487428	247.6260619	2.117389687	1.082286809	0.039670016	0.26919383	Up
CHST12	303.2622735	461.7613274	144.7632195	0.31350226	-1.67345225	0.01568827	0.158100954	Down
CHST15	768.8600766	1048.659386	489.0607673	0.466367606	-1.10046051	0.026801842	0.215742268	Down
CHST3	1078.833286	1538.061868	619.6047047	0.402847712	-1.31169353	0.013109663	0.14152317	Down
CHST8	101.0367718	20.54670623	181.5268374	8.834838797	3.143203811	0.0253312	0.20865275	Up
CHST9	46.06560287	73.56536051	18.56584523	0.25237211	-1.98637561	0.005142686	0.075915642	Down
CHSY3	128.496542	234.3080976	22.68498645	0.096816912	-3.36859711	0.026691782	0.215336783	Down
CIDEB	137.5764448	220.3211897	54.83169989	0.248871659	-2.00652615	0.00805975	0.102349815	Down
CIDEC	521.6680603	1037.971212	5.364908953	0.005168649	-7.59599703	0.0026377	0.047772554	Down
CILP	5645.229838	10981.20584	309.2538393	0.028162102	-5.15010117	0.00577355	0.081621532	Down
CIRBP	6207.159682	3858.976964	8555.342401	2.216997531	1.148607164	0.005550302	0.079210362	Up
CIST1	166.4730614	23.84814548	309.0979773	12.96109073	3.696115227	0.002794308	0.050106364	Up
CKAP2	388.6541091	579.0536916	198.2545266	0.34237676	-1.54634332	0.003215271	0.054979591	Down
CKAP4	3056.8	5087.024564	1026.691185	0.2018	-	3.18E-	0.0003	Down

	57875			25482	2.308819 76	06	5726	n
CKMT1 B	41.507 59876	14.26700281	68.74819472	4.8186 85161	2.268639 543	0.0192 05751	0.1792 59742	Up
CLCN3	846.11 66269	441.8488825	1250.384371	2.8298 91442	1.500746 711	0.0022 96741	0.0439 81857	Up
CLCN4	233.52 55654	87.80209063	379.2490401	4.3193 623	2.110818 332	0.0065 48229	0.0890 62785	Up
CLDN1	88.377 6992	31.60172311	145.1536753	4.5932 20275	2.199505 972	0.0003 45994	0.0123 97044	Up
CLDN1 1	97.735 99461	174.5892188	20.8827704	0.1196 10882	- 3.063579 45	0.0212 82716	0.1893 09131	Dow n
CLDN1 9	11.730 97298	3.524136401	19.93780957	5.6575 02236	2.500165 25	0.0403 90182	0.2710 55984	Up
CLDN2 3	59.439 85491	9.811278793	109.068431	11.116 63763	3.474648 587	0.0006 41218	0.0183 31103	Up
CLDN4	1050.8 86368	360.8890546	1740.883682	4.8238 74981	2.270192 518	0.0061 28219	0.0851 67138	Up
CLDN5	1449.0 31747	2107.621152	790.4423424	0.3750 4005	- 1.414883 43	0.0003 69159	0.0129 78894	Dow n
CLDN7	2347.6 88455	660.8956854	4034.481225	6.1045 65841	2.609888 694	9.18E- 08	2.27E- 05	Up
CLEC11 A	229.35 88793	390.9204133	67.79734524	0.1734 30046	- 2.527574 23	1.25E- 05	0.0010 16264	Dow n
CLEC3 B	3630.5 54755	4944.464365	2316.645145	0.4685 33085	- 1.093777 17	0.0050 89209	0.0753 72941	Dow n
CLEC4 A	61.015 06806	25.26025782	96.7698783	3.8309 14118	1.937688 684	0.0034 43609	0.0575 17829	Up
CLEC4 E	21.168 42093	4.91576564	37.42107621	7.6124 61406	2.928363 009	0.0051 11074	0.0756 12976	Up
CLEC4 G	17.369 11491	33.23775513	1.500474683	0.0451 43683	- 4.469332 06	0.0014 676	0.0327 36573	Dow n
CLEC6 A	43.161 18294	18.13931152	68.18305435	3.7588 55692	1.910293 529	0.0111 47163	0.1268 66675	Up
CLEC7 A	61.345 60678	30.87021705	91.8209965	2.9744 20178	1.572608 463	0.0243 29394	0.2044 53029	Up
CLEC9 A	22.940 05114	9.259620342	36.62048194	3.9548 57822	1.983625 83	0.0211 26893	0.1885 73983	Up
CLIC4	3507.2	4947.49447	2066.948811	0.4177	-	0.0019	0.0384	Dow

	2164			76881	1.25919543	04142	64524	n
CLIC6	456.1371761	114.1256401	798.1487121	6.993596805	2.806034624	0.02060626	0.186698305	Up
CLIP3	578.7752863	809.3239053	348.2266673	0.430268604	-1.21669052	0.020979308	0.188401543	Down
CLIP4	134.2186315	65.71695502	202.7203079	3.084748949	1.625153081	0.021048234	0.18843831	Up
CLK1	5233.639378	3230.610523	7236.668233	2.240031159	1.1635188	0.010411704	0.121696857	Up
CLMP	555.4713981	947.4493927	163.4934036	0.172561622	-2.53481646	0.021101976	0.1885305	Down
CLN3	990.5489836	548.4113356	1432.686631	2.61243074	1.385392789	0.003556794	0.058648091	Up
CLSTN1	10762.06876	6347.529165	15176.60835	2.3909474	1.257582391	0.009888157	0.117273155	Up
CLSTN2	55.86313597	94.30384892	17.42242303	0.184747741	-2.43637137	0.001127582	0.027450006	Down
CNKS1	263.7595083	87.5169708	440.0020458	5.027619692	2.329875523	8.16E-06	0.000725474	Up
CNN1	24350.55684	47054.96906	1646.144623	0.034983439	-4.83718409	0.005384968	0.078023651	Down
CNNM1	17.78635653	5.450594721	30.12211834	5.526391134	2.466337674	0.022939426	0.197379326	Up
CNPY4	688.798587	923.1626859	454.4344881	0.492258293	-1.02251258	0.043344198	0.281862289	Down
CNST	494.8808666	674.8192614	314.9424718	0.466706405	-1.09941283	0.046808653	0.294642218	Down
CNTN1	361.4761248	628.4711217	94.4811278	0.150334875	-2.73374836	0.004130929	0.065081069	Down
CNTNA3	39.63092734	72.36123599	6.900618704	0.095363472	-3.39041943	0.034049677	0.247843661	Down
COBL	193.8606473	53.98812856	333.7331661	6.181602789	2.627980954	2.05E-06	0.000251269	Up
COCH	230.5992288	446.8312196	14.36723793	0.032153613	-4.958875	0.004707123	0.071414461	Down

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COL11 A1	314.05 04728	612.3355784	15.76536709	0.0257 46286	- 5.279491 84	0.0213 26809	0.1894 32264	Dow n
COL11 A2	88.755 84047	49.89509267	127.6165883	2.5576 98191	1.354846 036	0.0153 83909	0.1566 0854	Up
COL12 A1	19057. 31531	36190.31587	1924.314758	0.0531 72091	- 4.233187	6.72E- 06	0.0006 18667	Dow n
COL14 A1	12680. 18153	23709.91862	1650.444442	0.0696 09874	- 3.844564 23	0.0004 63808	0.0147 82042	Dow n
COL17 A1	6391.5 96102	1845.626528	10937.56568	5.9262 07447	2.567109 129	0.0002 6608	0.0102 12378	Up
COL1A 1	45393 8.1285	885246.6167	22629.64029	0.0255 63092	- 5.289793 87	0.0012 93362	0.0300 65673	Dow n
COL1A 2	27868 4.0338	542331.1411	15036.9265	0.0277 26467	- 5.172592 39	0.0008 83542	0.0231 66008	Dow n
COL21 A1	932.22 76654	1522.812693	341.6426374	0.2243 49744	- 2.156178 56	0.0070 92893	0.0935 98168	Dow n
COL23 A1	174.12 50349	35.72524376	312.524826	8.7480 11017	3.128955 037	0.0090 26608	0.1103 9388	Up
COL26 A1	171.82 73755	11.05055228	332.6041988	30.098 42316	4.911616 002	0.0022 64944	0.0436 27237	Up
COL3A 1	48026 5.156	927055.5739	33474.73809	0.0361 08664	- 4.791511 15	0.0013 401	0.0307 36638	Dow n
COL4A 1	49189. 12746	73999.15995	24379.09498	0.3294 50969	- 1.601864 32	0.0001 62967	0.0072 22996	Dow n
COL4A 2	35181. 96085	52099.9766	18263.94511	0.3505 55726	- 1.512284 3	0.0003 71206	0.0130 0231	Dow n
COL5A 1	26246. 10891	49046.3046	3445.91323	0.0702 58366	- 3.831186 16	5.23E- 05	0.0031 21744	Dow n
COL5A 2	30034. 89451	56638.62008	3431.16893	0.0605 80023	- 4.045014 05	0.0003 97445	0.0135 52956	Dow n
COL5A 3	4654.8 84193	8341.040639	968.7277477	0.1161 39915	- 3.106064 22	0.0063 6729	0.0876 12167	Dow n

COL6A 1	46420. 63927	82039.39864	10801.8799	0.1316 6698	- 2.925034 5	0.0032 88799	0.0555 94325	Dow n
COL6A 2	40192. 30048	69925.75253	10458.84844	0.1495 70767	- 2.741099 86	0.0049 74535	0.0742 23031	Dow n
COL6A 3	68762. 19043	132187.0427	5337.338194	0.0403 77166	- 4.630316 53	6.36E- 06	0.0005 91399	Dow n
COL6A 6	537.80 58403	1069.678383	5.933297534	0.0055 46805	- 7.494127 25	7.88E- 12	9.35E- 09	Dow n
COL7A 1	2431.9 72094	858.7079874	4005.2362	4.6642 58699	2.221647 808	0.0119 28632	0.1331 56085	Up
COL8A 1	18018. 50579	35961.45966	75.55192609	0.0021 00914	- 8.894767 33	0.0004 61563	0.0147 82042	Dow n
COL9A 1	544.25 45884	173.2719857	915.2371911	5.2820 84046	2.401107 257	1.51E- 06	0.0001 95949	Up
COL9A 3	178.78 94704	81.92937801	275.6495629	3.3644 7767	1.750382 546	0.0191 56364	0.1792 33225	Up
COLGA LT1	1858.8 66547	2684.841	1032.892094	0.3847 12575	- 1.378147 11	0.0036 36789	0.0594 19902	Dow n
COLQ	38.703 35242	72.93864693	4.468057918	0.0612 57757	- 4.028963 64	0.0008 13345	0.0217 95968	Dow n
COMP	116.13 17535	224.0890496	8.174457345	0.0364 78611	- 4.776805 38	1.95E- 10	1.53E- 07	Dow n
COPZ2	1005.5 15095	1668.65418	342.3760097	0.2051 80926	- 2.285031 47	0.0008 6059	0.0226 95616	Dow n
CORO1 A	1037.6 95812	686.5197865	1388.871837	2.0230 61627	1.016540 269	0.0200 75573	0.1838 29071	Up
CORO1 C	2262.7 08712	3393.820705	1131.596718	0.3334 2855	- 1.584550 45	0.0125 39806	0.1375 10981	Dow n
CORO2 A	245.00 30008	130.6487665	359.3572352	2.7505 59724	1.459725 229	0.0453 0431	0.2892 42548	Up
CORO2 B	223.88 41943	350.0069304	97.7614582	0.2793 12921	- 1.840045 78	0.0003 7711	0.0131 07313	Dow n
COX7A	209.49	303.9243795	115.0673483	0.3786	-	0.0202	0.1849	Dow

1	58639			05193	1.4012339	84748	30623	n
COX7B2	15.57439495	23.70837265	7.440417259	0.313830788	-1.6719412	0.045513866	0.289909829	Down
CPE	1366.860683	2557.269756	176.4516104	0.068999999	-3.85725985	0.005373392	0.077918506	Down
CPEB4	1061.396624	1544.38491	578.4083383	0.374523433	-1.41687211	0.001262241	0.029548792	Down
CPED1	330.6440706	586.3121461	74.97599515	0.127877268	-2.96716827	0.005115033	0.075612976	Down
CPN1	5.91490134	11.82980268	0	0	#NAME?	0.038738001	0.265398711	Down
CPNE2	352.3325827	551.9239028	152.7412625	0.276743337	-1.85337951	0.010951872	0.125515136	Down
CPNE8	361.0121825	514.5352371	207.4891279	0.403255429	-1.31023414	0.00965413	0.115484649	Down
CRABP1	96.56108403	44.84978647	148.2723816	3.305977425	1.725076873	0.042579294	0.278393577	Up
CRABP2	584.4206927	1058.98565	109.8557352	0.103736755	-3.26900094	0.011421475	0.129173661	Down
CRACR2A	535.0666145	289.8869418	780.2462872	2.691553756	1.42843924	0.002398098	0.045280316	Up
CRB1	32.08973293	57.5425872	6.636878658	0.115338552	-3.11605329	9.82E-05	0.004972847	Down
CRB3	145.3687994	58.51670713	232.2208917	3.968454533	1.988577277	0.002384693	0.045091696	Up
CREB3L4	283.4949688	134.5526139	432.4373236	3.213890173	1.684320629	0.01550176	0.157322315	Up
CREB5	235.8379329	375.807548	95.86831777	0.2550995	-1.97086802	0.011270518	0.127947691	Down
CRELD2	546.2610432	737.9664229	354.5556635	0.480449588	-1.05754303	0.012470384	0.13716662	Down
CRIP2	2337.219927	3130.639438	1543.800416	0.493126228	-1.019971	0.026705191	0.215348654	Down

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CRISP3	2184.0 52233	24.34951542	4343.75495	178.39 18437	7.478905 845	0.0178 46734	0.1715 16903	Up
CRISPL D2	10086. 85404	14829.34023	5344.367856	0.3603 91479	- 1.472363 19	0.0203 5089	0.1851 24679	Down
CRLF1	2387.8 0831	4583.677406	191.939213	0.0418 74503	- 4.577784 12	2.16E- 05	0.0015 98892	Down
CRYBA 4	43.708 43287	23.70903346	63.70783228	2.6870 69989	1.426033 899	0.0454 07561	0.2893 34863	Up
CSF1	1600.5 85784	2263.618502	937.5530656	0.4141 83337	- 1.271658 58	0.0111 43327	0.1268 66675	Down
CSF1R	1445.4 03043	928.2159693	1962.590116	2.1143 67972	1.080226 476	0.0197 02179	0.1821 66896	Up
CSGAL NACT1	585.49 42063	891.6402822	279.3481304	0.3132 96893	- 1.674397 63	0.0296 08259	0.2295 24443	Down
CSGAL NACT2	673.58 91867	957.1767541	390.0016194	0.4074 49949	- 1.295305 25	0.0275 37229	0.2190 22964	Down
CSRP1	16487. 81221	28021.19853	4954.425897	0.1768 09921	- 2.499728 87	0.0493 60542	0.3031 71541	Down
CSRP2	788.66 96825	1174.405222	402.9341432	0.3430 96349	- 1.543314 32	0.0072 59686	0.0950 34456	Down
CST3	15711. 03985	27996.4466	3425.633095	0.1223 59567	- 3.030801 18	0.0071 61014	0.0941 52721	Down
CST7	80.285 32653	31.67694077	128.8937123	4.0690 07586	2.024676 97	0.0013 59214	0.0310 36526	Up
CTGF	16972. 38124	32305.19847	1639.564014	0.0507 52328	- 4.300382 2	0.0105 95618	0.1228 32337	Down
CTHRC 1	651.49 71042	1287.339323	15.65488578	0.0121 60652	- 6.361635 58	0.0004 62652	0.0147 82042	Down
CTNNA 2	12.998 02668	2.259503554	23.73654981	10.505 20579	3.393032 518	0.0096 90651	0.1156 14855	Up
CTNNB IP1	313.12 44167	178.3177962	447.9310371	2.5119 81679	1.328825 942	0.0087 30728	0.1082 55887	Up
CTSW	587.49	205.0563372	969.9323858	4.7300	2.241863	3.21E-	0.0003	Up

	43615			77592	85	06	57717	
CX3CL1	1101.124691	540.5054704	1661.743912	3.074425706	1.620316944	0.000282941	0.010686944	Up
CX3CR1	652.6169496	223.7440017	1081.489898	4.833603982	2.273099278	3.14E-06	0.000355903	Up
CXADR	142.1494986	67.32425411	216.9747431	3.222831741	1.68832887	0.001280004	0.029832032	Up
CXCL10	223.7953261	64.2720629	383.3185892	5.964000095	2.576280281	0.010595834	0.122832337	Up
CXCL13	235.7372126	2.923461523	468.5509637	160.2726631	7.324384563	0.000157704	0.007059108	Up
CXCR3	32.50820159	10.89735465	54.11904852	4.966255595	2.312158514	0.004538162	0.069317803	Up
CXCR6	158.5125776	71.0138909	246.0112642	3.464269611	1.792551214	0.001441737	0.032307445	Up
CXHXorf36	647.28057	951.5279758	343.0331642	0.360507702	-1.47189801	0.000369818	0.012978894	Down
CYB561	1070.365233	434.0634909	1706.666975	3.931837187	1.975203583	4.39E-05	0.00274926	Up
CYP11A1	620.992862	42.53802444	1199.4477	28.1970711	4.817473409	2.53E-07	5.18E-05	Up
CYP24A1	14.62384149	5.204059441	24.04362355	4.620166972	2.207944991	0.039880295	0.269640422	Up
CYP26B1	1023.623903	1993.444004	53.80380185	0.026990375	-5.21141115	0.043373684	0.281952389	Down
CYP2B6	103.4297228	14.8617104	191.9977352	12.9189528	3.691417226	0.003524176	0.058430708	Up
CYP2S1	118.2509483	56.90115821	179.6007385	3.156363493	1.658263358	0.023308138	0.199173614	Up
DAAM2	1364.835533	2184.075176	545.5958898	0.249806369	-2.00111783	3.14E-05	0.002143069	Down
DAB2	2127.002375	3691.785014	562.2197351	0.152289403	-2.71511254	0.001251844	0.029534737	Down
DACT1	657.8317185	1022.485694	293.1777426	0.28673041	-1.80223317	0.002145022	0.041786231	Down
DACT2	201.8918376	387.6570357	16.1266394	0.041600275	-4.58726311	1.35E-13	2.44E-10	Down
DACT3	329.62	586.5846124	72.66257057	0.1238	-	0.0311	0.2364	Down

	35915			7398	3.013054 92	98216	04504	n
DAGLA	642.85 96509	354.2462806	931.4730212	2.6294 50391	1.394761 278	0.0025 68425	0.0471 81072	Up
DAO	9.9346 34802	1.572318722	18.29695088	11.636 92235	3.540637 65	0.0256 32194	0.2100 76853	Up
DAPP1	114.06 31167	58.65377328	169.47246	2.8893 70122	1.530755 022	0.0060 62307	0.0845 76914	Up
DBN1	2990.5 82981	4265.180914	1715.985049	0.4023 24094	- 1.313569 95	0.0131 27901	0.1416 35287	Down
DBND D1	69.234 9154	29.28576416	109.1840667	3.7282 30073	1.898490 893	0.0020 25917	0.0403 81796	Up
DCBLD 2	960.66 24631	1520.621041	400.7038855	0.2635 13311	- 1.924052 25	0.0001 5246	0.0069 10096	Down
DCLK1	1608.1 91666	3003.392687	212.9906458	0.0709 16683	- 3.817731 14	0.0010 10796	0.0255 40201	Down
DCLRE 1B	135.41 90526	206.6389624	64.19914283	0.3106 82662	- 1.686486 36	0.0063 94111	0.0878 47192	Down
DCN	63108. 05744	112482.7627	13733.35222	0.1220 92949	- 3.033948 21	0.0256 76703	0.2101 55194	Down
DCUN1 D3	552.27 54347	755.6253676	348.9255017	0.4617 70497	- 1.114752 09	0.0280 43331	0.2214 85838	Down
DDAH2	1622.1 10935	2496.433701	747.7881688	0.2995 42571	- 1.739167 04	0.0006 05054	0.0177 18442	Down
DDC	40.490 50176	62.94353569	18.03746783	0.2865 6585	- 1.803061 4	0.0237 16046	0.2011 48155	Down
DDIT4L	247.19 21083	446.4703043	47.91391231	0.1073 17131	- 3.220047 7	0.0439 45001	0.2838 25232	Down
DDR1	3980.2 47157	1614.748026	6345.746288	3.9298 67808	1.974480 784	0.0003 84152	0.0133 00806	Up
DDR2	4429.4 83082	6056.988898	2801.977267	0.4626 02345	- 1.112155 52	0.0317 85007	0.2392 86231	Down
DEF6	175.10 86916	96.35067553	253.8667076	2.6348 20214	1.397704 524	0.0107 36124	0.1239 08471	Up

DEFB4 A	12.347 66346	0.975908839	23.71941808	24.304 95261	4.603178 416	0.0011 83975	0.0283 35987	Up
DEFB5	31.344 90711	0.687184831	62.00262938	90.227 00526	6.495487 397	1.76E- 08	6.12E- 06	Up
DEGS2	122.44 09046	8.496588042	236.3852212	27.821 19364	4.798112 413	0.0003 99335	0.0135 91702	Up
DENND 1C	298.60 55329	184.1171991	413.0938666	2.2436 46268	1.165845 239	0.0251 14515	0.2075 31254	Up
DENND 2A	554.89 64969	946.7442817	163.0487121	0.1722 20435	- 2.537671 76	4.05E- 07	7.07E- 05	Dow n
DENND 6B	773.12 53979	489.8726242	1056.378172	2.1564 34386	1.108647 82	0.0179 35036	0.1719 98999	Up
DEPDC 1	64.402 39903	103.8215089	24.98328916	0.2406 3693	- 2.055070 03	0.0033 82367	0.0567 57696	Dow n
DEPDC 7	141.51 83124	62.07157744	220.9650473	3.5598 42627	1.831813 464	0.0023 01935	0.0439 90209	Up
DERL3	237.33 00025	71.39790399	403.262101	5.6480 94389	2.497764 199	0.0005 71115	0.0170 00563	Up
DES	67529. 70736	134337.0345	722.3801901	0.0053 77372	- 7.538883 04	0.0005 54504	0.0165 98835	Dow n
DFNB3 1	98.317 71769	55.56178744	141.0736479	2.5390 40849	1.344283 606	0.0150 75008	0.1549 50462	Up
DGAT2	440.69 87278	855.111775	26.28568068	0.0307 39468	- 5.023764 01	0.0026 43291	0.0478 25802	Dow n
DGKG	125.49 89382	236.6525835	14.34529295	0.0606 17521	- 4.044121 34	0.0108 64649	0.1248 32737	Dow n
DGKH	107.32 46105	147.2916502	67.35757077	0.4573 07462	- 1.128763 63	0.0341 1913	0.2479 75419	Dow n
DHH	28.227 06857	45.11830753	11.33582961	0.2512 46783	- 1.992822 97	0.0146 59626	0.1520 66696	Dow n
DHRS1 3	160.11 93099	80.265461	239.9731588	2.9897 43731	1.580021 827	0.0058 96505	0.0828 99168	Up
DIAPH 2	19.622 91984	35.29380355	3.952036129	0.1119 75353	- 3.158746 87	0.0011 63124	0.0280 50257	Dow n
DIAPH 3	119.05 76478	195.8923667	42.22292896	0.2155 41471	- 2.213962	0.0373 97889	0.2618 11915	Dow n

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DIO1	31.605 66506	5.638542108	57.57278801	10.210 58048	3.351992 982	0.0067 76147	0.0908 80984	Up
DIRAS3	136.46 67618	64.42398844	208.5095351	3.2365 20125	1.694443 475	0.0100 74354	0.1189 34074	Up
DKK2	106.11 72704	174.693431	37.54110974	0.2148 97089	- 2.218282 16	0.0186 32901	0.1760 11696	Down
DKK3	2009.3 34409	3465.893774	552.7750445	0.1594 89898	- 2.648463 05	0.0173 82821	0.1685 67011	Down
DLC1	1038.2 44496	1779.416883	297.072109	0.1669 49135	- 2.582519 48	1.13E- 07	2.72E- 05	Down
DLGAP 5	84.579 09728	120.837251	48.32094353	0.3998 84499	- 1.322344 74	0.0451 54875	0.2889 49555	Down
DLK1	385.05 9268	81.04841003	689.070126	8.5019 57358	3.087795 023	0.0003 46367	0.0123 97044	Up
DLK2	248.46 94487	116.5067345	380.4321629	3.2653 2337	1.707225 871	0.0249 7269	0.2069 76693	Up
DMGD H	724.03 24485	46.7036023	1401.361295	30.005 42197	4.907151 314	1.02E- 05	0.0008 62487	Up
DMP1	22.957 33447	2.592548787	43.32212015	16.710 24297	4.062660 806	5.02E- 05	0.0030 39353	Up
DMPK	3941.1 18135	7548.93455	333.3017199	0.0441 52154	- 4.501372 37	0.0031 0505	0.0534 97612	Down
DMRT2	432.53 91816	704.3687213	160.7096418	0.2281 61241	- 2.131874 36	0.0020 35903	0.0404 79788	Down
DMRTA 1	29.492 07936	4.120546284	54.86361244	13.314 64536	3.734942 097	0.0002 60977	0.0100 59308	Up
DMTN	53.597 62832	81.05047909	26.14477756	0.3225 74004	- 1.632297 92	0.0073 07485	0.0953 83295	Down
DMXL2	226.61 71896	357.2056386	96.02874066	0.2688 33216	- 1.895216 69	0.0002 79788	0.0106 03142	Down
DNAAF 3	42.745 1046	11.21996801	74.2702412	6.6194 69961	2.726715 701	0.0199 69872	0.1835 18446	Up
DNAH1	137.66 82813	222.7321762	52.60438644	0.2361 7776	- 2.082054 98	0.0066 35547	0.0897 29111	Down

DNAH10	26.81797818	6.936833696	46.69912266	6.73205164	2.751046243	0.001146061	0.027798168	Up
DNAH7	26.70575158	12.60476955	40.80673362	3.237404179	1.694837492	0.03590114	0.254367895	Up
DNAJB5	313.2207521	552.4522834	73.98922082	0.133928708	-2.90046285	0.015406882	0.156665588	Down
DNAJC6	118.6535025	40.81852491	196.4884801	4.813708494	2.267148778	6.90E-05	0.003889413	Up
DNAL1	69.35059473	103.4797712	35.22141831	0.340370083	-1.55482386	0.03263796	0.242527832	Down
DNER	150.2943133	76.17820527	224.4104214	2.945861229	1.558689471	0.009099538	0.110929669	Up
DNM1	1232.573414	1925.144894	540.0019347	0.280499373	-1.83393055	0.047881396	0.298559455	Down
DNM3	185.537323	280.9392955	90.13535054	0.320835682	-1.64009349	0.001666422	0.035692935	Down
DOCK2	287.2412972	182.7287749	391.7538195	2.143908751	1.100243503	0.024776477	0.206344811	Up
DOCK5	487.5360224	295.799042	679.2730027	2.296400279	1.199374136	0.01524008	0.155859894	Up
DPF1	22.71556588	35.56054177	9.870589992	0.277571418	-1.84906908	0.039677891	0.26919383	Down
DPT	3630.004343	6779.199284	480.8094015	0.070924217	-3.81757787	9.59E-05	0.004885361	Down
DPY19L2	34.47552164	64.35111535	4.599927941	0.071481713	-3.80628199	0.023717619	0.201148155	Down
DPY19L3	88.45110703	126.0021332	50.90008086	0.403962057	-1.30770831	0.024972683	0.206976693	Down
DPYSL3	4747.103355	7610.54432	1883.66239	0.247506921	-2.01445923	0.018047942	0.172622923	Down
DRC1	24.49037677	4.936429797	44.04432374	8.922303273	3.157416187	0.033461189	0.245303316	Up
DRP2	14.7470145	25.96470222	3.529326773	0.135927874	-2.87908676	0.009783617	0.116569796	Down

DSCA ML1	18.604 89205	4.523272101	32.686512	7.2262 97969	2.853256 744	0.0054 52449	0.0785 59686	Up
DSE	668.90 0766	1049.606653	288.1948792	0.2745 74174	- 1.864732 16	0.0004 16744	0.0138 95847	Dow n
DSEL	820.23 4818	1339.992387	300.4772491	0.2242 38027	- 2.156897 14	0.0259 29608	0.2113 62042	Dow n
DSG2	906.30 9728	292.125345	1520.494111	5.2049 37323	2.379880 791	9.87E- 07	0.0001 47102	Up
DSG3	139.66 32281	54.62056029	224.7058959	4.1139 43445	2.040521 961	0.0002 54669	0.0099 14059	Up
DSP	5326.8 53035	1764.771944	8888.934125	5.0368 74115	2.332528 675	0.0005 8995	0.0173 89071	Up
DST	7723.5 9618	10722.77423	4724.41813	0.4405 96624	- 1.182469 65	0.0188 18388	0.1769 88997	Dow n
DSTN	8931.1 62748	15391.37942	2470.946073	0.1605 40911	- 2.638987 11	0.0256 63659	0.2101 4378	Dow n
DTL	107.55 31227	166.8967176	48.20952775	0.2888 58454	- 1.791565 38	0.0021 40911	0.0417 51232	Dow n
DTNB	792.32 12013	475.4988358	1109.143567	2.3325 89448	1.221932 405	0.0108 13974	0.1243 66846	Up
DUSP1 8	128.30 44855	200.4882068	56.12076417	0.2799 20525	- 1.836910 82	0.0011 26364	0.0274 50006	Dow n
DUSP2 2	218.39 04474	124.8861838	311.8947109	2.4974 31672	1.320445 207	0.0069 48993	0.0925 69328	Up
DYNC1 LI2	986.28 44975	1346.928655	625.6403401	0.4644 94046	- 1.106267 99	0.0130 22478	0.1410 29279	Dow n
DYRK3	222.31 80042	327.3366077	117.2994007	0.3583 4489	- 1.480579 31	0.0213 06215	0.1894 24749	Dow n
DZIP1	926.75 52945	1450.169644	403.3409449	0.2781 33628	- 1.846149 91	0.0310 56468	0.2360 01279	Dow n
EBF1	891.55 7579	1442.659944	340.4552137	0.2359 91312	- 2.083194 34	1.54E- 05	0.0012 05123	Dow n
EBF2	227.20 54342	426.2038727	28.20699578	0.0661 81932	- 3.917418	0.0226 83935	0.1964 4527	Dow n

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ECE2	382.70 34589	540.9718967	224.4350212	0.4148 73716	- 1.269255 83	0.0399 10161	0.2697 41247	Dow n
ECEL1	13.496 51315	26.3361014	0.656924908	0.0249 43893	- 5.325169 52	0.0037 22619	0.0602 8036	Dow n
ECM1	5064.0 42004	9219.906742	908.177267	0.0985 01784	- 3.343706 33	0.0080 8555	0.1025 70491	Dow n
ECM2	7078.2 1794	12559.64119	1596.794693	0.1271 36967	- 2.975544 51	0.0005 28048	0.0160 90311	Dow n
ECSCR	911.78 0553	1324.063793	499.4973129	0.3772 45655	- 1.406423 81	0.0052 76934	0.0769 52798	Dow n
ECT2	173.17 97214	242.6165401	103.7429027	0.4276 00289	- 1.225665 27	0.0232 19618	0.1989 82752	Dow n
EDAR	287.34 96594	37.68919561	537.0101232	14.248 38377	3.832726 375	0.0066 59142	0.0899 13375	Up
EDARA DD	11.749 35924	3.545230765	19.95348771	5.6282 62031	2.492689 497	0.0437 45229	0.2829 40187	Up
EDN1	525.76 81098	782.855469	268.6807506	0.3432 06072	- 1.542853 02	0.0428 93515	0.2800 92554	Dow n
EFEMP 1	3411.0 51175	5504.668528	1317.433821	0.2393 30273	- 2.062925 2	0.0071 39769	0.0939 41862	Dow n
EFEMP 2	2141.5 81247	3795.692266	487.4702284	0.1284 27226	- 2.960977 02	0.0023 02054	0.0439 90209	Dow n
EFHB	104.19 45427	53.49489547	154.8941899	2.8954 94767	1.533809 889	0.0160 74115	0.1603 7664	Up
EFHC1	212.64 08832	94.32258018	330.9591861	3.5088 01238	1.810978 226	0.0011 87174	0.0283 64821	Up
EFNA4	209.55 99161	109.6737384	309.4460938	2.8215 14961	1.496469 999	0.0020 85256	0.0409 75964	Up
EGFL7	1109.3 62498	1511.835488	706.889509	0.4675 7039	- 1.096744 52	0.0066 14865	0.0896 29795	Dow n
EHD1	1124.5 11945	1522.981739	726.0421507	0.4767 24134	- 1.068773 43	0.0307 63638	0.2351 46301	Dow n

EHD2	7900.6 9052	11052.48573	4748.895308	0.4296 67626	- 1.218707 02	0.0026 02314	0.0473 21709	Dow n
EHD4	531.44 04291	732.8700669	330.0107913	0.4502 99182	- 1.151044 24	0.0043 944	0.0678 10584	Dow n
EHF	11083. 81902	5483.633243	16684.0048	3.0425 09238	1.605261 644	0.0248 47398	0.2064 58874	Up
EID2	70.488 23998	100.9566723	40.01980762	0.3964 05772	- 1.334950 13	0.0479 92227	0.2988 99472	Dow n
EIF4EB P3	186.17 6245	114.3399944	258.0124956	2.2565 37591	1.174110 812	0.0400 28432	0.2700 28158	Up
EIF5A2	178.87 31941	251.7366428	106.0097454	0.4211 13685	- 1.247718 33	0.0304 95158	0.2339 86452	Dow n
ELF3	492.54 93257	95.79623624	889.3024152	9.2832 70931	3.214633 224	1.58E- 05	0.0012 21067	Up
ELF4	1363.7 39032	2028.194942	699.2831219	0.3447 81021	- 1.536247 74	0.0015 95753	0.0347 65455	Dow n
ELFN2	232.74 72593	108.2489612	357.2455573	3.3002 21576	1.722562 89	0.0451 33606	0.2889 15939	Up
ELK3	1458.4 6574	1962.37285	954.5586308	0.4864 30818	- 1.039693 46	0.0428 05323	0.2796 68676	Dow n
ELMO3	860.08 3758	1269.29538	450.8721362	0.3552 1451	- 1.493237 58	0.0018 61879	0.0380 36735	Dow n
ELN	54939. 70837	108024.7076	1854.709145	0.0171 69305	- 5.864024 55	0.0060 18869	0.0841 66191	Dow n
ELOVL 5	1283.8 2427	292.1381275	2275.510412	7.7891 59299	2.961467 623	9.30E- 10	5.59E- 07	Up
EMILIN 2	1306.9 35888	2271.196865	342.6749105	0.1508 78559	- 2.728540 29	4.50E- 08	1.23E- 05	Dow n
EML1	309.39 05863	524.8623817	93.91879084	0.1789 3984	- 2.482453 46	1.33E- 06	0.0001 7894	Dow n
EML5	319.19 99746	209.2760259	429.1239233	2.0505 164	1.035987 283	0.0227 04286	0.1965 27165	Up
EMP1	7330.6 48243	11097.85562	3563.440863	0.3210 92739	- 1.638938	0.0009 37209	0.0242 55835	Dow n

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EMP3	1292.4 20113	2188.938861	395.901365	0.1808 64515	- 2.467018 71	4.16E- 06	0.0004 35871	Dow n
EMX2	278.83 8745	537.5497701	20.1277198	0.0374 43453	- 4.739142 69	0.0073 91174	0.0961 97248	Dow n
EN1	68.851 95069	130.0430778	7.660823609	0.0589 09892	- 4.085346 29	0.0088 47101	0.1091 60641	Dow n
ENDOD 1	797.31 76879	1100.788582	493.8467933	0.4486 3001	- 1.156401 96	0.0167 91712	0.1646 3984	Dow n
ENO1	10868. 54486	14723.53494	7013.554776	0.4763 49926	- 1.069906 33	0.0301 93567	0.2323 64233	Dow n
ENOX1	97.840 25655	158.5373643	37.14314877	0.2342 86403	- 2.093654 87	0.0014 70958	0.0327 58779	Dow n
ENPP1	6365.1 25693	12225.69263	504.5587595	0.0412 70362	- 4.598750 1	0.0064 94638	0.0886 20856	Dow n
ENPP3	309.91 50218	24.95597652	594.8740671	23.836 93808	4.575127 024	0.0253 70926	0.2087 51475	Up
ENPP5	1028.5 86898	345.114947	1712.05885	4.9608 3657	2.310583 43	9.95E- 07	0.0001 4711	Up
ENTPD 2	1096.6 95039	610.0255575	1583.364521	2.5955 70795	1.376051 838	0.0374 01702	0.2618 11915	Up
ENTPD 3	31.398 61105	11.54192055	51.25530155	4.4407 94869	2.150817 931	0.0089 19823	0.1097 57632	Up
EPAS1	2092.6 42554	2905.537335	1279.747774	0.4404 51327	- 1.182945 5	0.0090 67173	0.1106 64907	Dow n
EPB41L 2	2786.8 64062	3850.561186	1723.166939	0.4475 10598	- 1.160006 25	0.0156 83943	0.1581 00954	Dow n
EPB41L 4B	374.60 84854	231.6645763	517.5523945	2.2340 59271	1.159667 462	0.0292 52003	0.2280 36683	Up
EPCAM	2516.6 67973	672.2908044	4361.045141	6.4868 43361	2.697516 602	1.29E- 07	3.00E- 05	Up
EPDR1	458.37 61687	766.7662322	149.9861051	0.1956 08647	- 2.353957 95	0.0029 69608	0.0520 76522	Dow n
EPHA1	369.45	107.8638261	631.0396172	5.8503	2.548519	2.86E-	5.61E-	Up

	17217			3593	467	07	05	
EPHA3	198.71 37469	383.4615765	13.96591729	0.0364 20643	- 4.779099 79	6.94E- 08	1.79E- 05	Dow n
EPHA4	23.487 15784	38.47233034	8.501985331	0.2209 89611	- 2.177949 54	0.0466 30587	0.2940 12292	Dow n
EPHA5	134.78 13834	72.24447187	197.318295	2.7312 58044	1.449565 624	0.0197 35391	0.1822 8711	Up
EPHA7	242.71 45726	131.7328353	353.6963098	2.6849 51773	1.424896 175	0.0055 47361	0.0792 10362	Up
EPHB1	61.816 47606	110.0568972	13.57605495	0.1233 54876	- 3.019113 35	0.0035 55584	0.0586 48091	Dow n
EPHB2	155.15 7034	229.8963527	80.41771539	0.3497 99875	- 1.515398 32	0.0411 23062	0.2738 34966	Dow n
EPHB6	595.85 53815	73.4155304	1118.295233	15.232 40691	3.929072 019	0.0002 12953	0.0087 50456	Up
EPHX1	1237.0 11117	776.851716	1697.170517	2.1846 77568	1.127420 371	0.0209 68489	0.1884 01543	Up
EPHX2	423.83 48095	279.3662415	568.3033775	2.0342 59309	1.024503 593	0.0348 24287	0.2508 7672	Up
EPN3	172.72 74604	83.4799911	261.9749297	3.1381 76301	1.649926 405	0.0022 33591	0.0432 77926	Up
EPPK1	222.95 70098	125.2633507	320.6506688	2.5598 12324	1.356038 041	0.0096 89711	0.1156 14855	Up
EPS8L1	479.47 63095	136.7574588	822.1951601	6.0120 68133	2.587861 359	2.63E- 07	5.21E- 05	Up
EPS8L2	346.27 06514	222.6384717	469.902831	2.1106 09309	1.077659 549	0.0189 85594	0.1780 04743	Up
ERBB2	2883.2 68155	1535.992283	4230.544027	2.7542 74272	1.461672 231	0.0203 60739	0.1851 24679	Up
ERBB3	3329.2 40039	780.1351008	5878.344976	7.5350 34599	2.913614 136	0.0005 68729	0.0169 57531	Up
ERBB4	74.210 21945	23.42968132	124.9907576	5.3347 18637	2.415412 183	0.0001 23978	0.0059 32207	Up
EREG	20.339 96471	3.012103975	37.66782545	12.505 48645	3.644489 273	0.0196 09617	0.1816 83552	Up
ERICH3	106.49 26525	165.8577624	47.12754259	0.2841 44329	- 1.815304 17	0.0074 50191	0.0966 86325	Dow n
ERN2	117.74 18472	8.755687697	226.7280066	25.894 93989	4.694598 304	7.72E- 05	0.0041 45252	Up

ESRP1	787.55 88892	366.0097285	1209.10805	3.3034 86098	1.723989 273	0.0020 95336	0.0410 84536	Up
ESRRB	241.89 88558	30.70273422	453.0949775	14.757 47972	3.883374 454	1.91E- 10	1.53E- 07	Up
ESRRG	397.45 1446	99.25644727	695.6464446	7.0085 76911	2.809121 535	0.0134 28874	0.1436 3758	Up
ESYT2	4801.7 95839	6419.424071	3184.167607	0.4960 2076	- 1.011527 59	0.0381 26697	0.2629 59243	Down
ESYT3	21.868 90049	3.500909539	40.23689145	11.493 26796	3.522717 163	0.0004 58014	0.0147 01266	Up
ETNK2	474.40 01467	173.9899044	774.810389	4.4531 91647	2.154839 701	9.24E- 06	0.0007 97644	Up
ETV4	180.17 52368	93.42617253	266.9243012	2.8570 61292	1.514531 986	0.0339 10722	0.2475 18604	Up
ETV5	420.82 35823	236.0173353	605.6298293	2.5660 39603	1.359543 436	0.0497 51724	0.3049 20735	Up
EVC	407.68 37362	614.7865722	200.5809002	0.3262 6103	- 1.615901 42	0.0028 15124	0.0503 29061	Down
EXOC3 L4	96.111 82172	30.80716456	161.4164789	5.2395 75961	2.389450 059	6.94E- 05	0.0038 98165	Up
EXOSC 5	316.93 62209	197.2228653	436.6495764	2.2139 90634	1.146649 119	0.0295 85554	0.2295 24443	Up
EXTL2	205.87 80714	341.8964755	69.85966722	0.2043 29884	- 2.291027 88	0.0024 18327	0.0454 89269	Down
EYA2	173.44 70314	46.49409934	300.3999635	6.4610 34148	2.691765 1	5.43E- 06	0.0005 26737	Up
EZR	7191.1 16915	4428.130832	9954.102999	2.2479 24322	1.168593 467	0.0118 91114	0.1328 59517	Up
F13A1	847.23 17522	1459.156257	235.3072473	0.1612 62542	- 2.632516 73	0.0300 08586	0.2315 33309	Down
FAIM	253.16 58289	117.0942708	389.2373871	3.3241 36906	1.732979 801	0.0013 71291	0.0312 22959	Up
FAIM2	147.16 93451	69.8579844	224.4807058	3.2133 86526	1.684094 527	0.0031 88211	0.0547 21356	Up
FAM10 2B	704.57 47907	1015.407107	393.7424747	0.3877 6809	- 1.366734 01	0.0021 91163	0.0425 93099	Down
FAM10 5A	2139.2 08819	3633.804577	644.6130612	0.1773 93431	- 2.494975 51	0.0180 12502	0.1724 66834	Down

FAM10 9B	563.53 5999	952.3832526	174.6887454	0.1834 2274	- 2.446755 59	9.68E- 06	0.0008 28197	Dow n
FAM11 0A	368.81 64012	152.2390241	585.3937783	3.8452 28132	1.943069 194	0.0001 06521	0.0052 93459	Up
FAM11 0D	217.61 22346	318.4487736	116.7756956	0.3667 01665	- 1.447321 28	0.0069 90159	0.0927 17262	Dow n
FAM12 4A	17.312 26747	31.99444725	2.630087685	0.0822 04505	- 3.604638 74	0.0017 9839	0.0371 11403	Dow n
FAM12 6A	859.84 69435	1209.937338	509.756549	0.4213 08222	- 1.247052 02	0.0058 46035	0.0824 06531	Dow n
FAM13 1C	41.023 97166	7.001819079	75.04612424	10.718 0896	3.421975 876	0.0004 26561	0.0141 70797	Up
FAM13 2B	7.2864 91761	13.8694024	0.703581125	0.0507 29015	- 4.301045 04	0.0336 32368	0.2460 23638	Dow n
FAM14 9A	254.84 23256	151.4377245	358.2469267	2.3656 38601	1.242229 69	0.0063 11501	0.0870 43708	Up
FAM15 9B	24.922 73863	0.309818372	49.53565888	159.88 61247	7.320900 933	0.0432 61815	0.2817 3281	Up
FAM16 0A1	687.84 41292	331.5692076	1044.119051	3.1490 2297	1.654904 281	0.0062 62507	0.0865 00274	Up
FAM16 0B1	219.57 16073	304.9012803	134.2419343	0.4402 79996	- 1.183506 8	0.0149 42727	0.1541 17698	Dow n
FAM16 3A	14.572 82463	3.279733618	25.86591564	7.8865 90392	2.979401 715	0.0067 16052	0.0904 11086	Up
FAM16 7B	62.835 76088	91.41171404	34.25980772	0.3747 85749	- 1.415862	0.0300 76969	0.2317 64993	Dow n
FAM17 1A1	875.59 32122	1176.736441	574.4499838	0.4881 72172	- 1.034538 04	0.0295 97032	0.2295 24443	Dow n
FAM17 4B	382.51 17827	240.0164843	525.0070811	2.1873 79266	1.129203 388	0.0240 57912	0.2032 69633	Up
FAM18 0B	173.48 60773	342.4164947	4.555659777	0.0133 0444	- 6.231948 38	0.0001 39916	0.0064 71652	Dow n
FAM18 4A	78.145 19956	30.32366547	125.9667336	4.1540 7345	2.054526 725	0.0125 06634	0.1372 45698	Up
FAM18 4B	153.14 46792	41.22317116	265.0661873	6.4300 2903	2.684825 251	0.0315 87484	0.2381 50572	Up

FAM18 9A2	580.69 18074	229.8871512	931.4964636	4.0519 72713	2.018624 459	7.15E- 05	0.0039 67823	Up
FAM19 3B	1156.0 45993	757.8733946	1554.218592	2.0507 62836	1.036160 659	0.0179 81264	0.1722 59171	Up
FAM19 5A	325.69 74509	156.3037943	495.0911074	3.1674 92571	1.663341 236	0.0012 09952	0.0287 94634	Up
FAM19 6B	8.6996 74008	16.12976636	1.269581652	0.0787 1048	- 3.667300 45	0.0179 76409	0.1722 59171	Down
FAM19 8B	281.49 42235	432.3525022	130.6359449	0.3021 51472	- 1.726656 13	0.0045 3352	0.0693 17803	Down
FAM20 C	4579.8 1204	2313.4289	6846.19518	2.9593 28112	1.565269 663	0.0480 35344	0.2988 99472	Up
FAM21 3A	1011.1 04272	650.6181303	1371.590413	2.1081 34325	1.075966 795	0.0232 32314	0.1989 9147	Up
FAM26 F	57.282 76934	21.2106642	93.35487447	4.4013 17827	2.137935 555	0.0011 84397	0.0283 35987	Up
FAM3B	515.75 52484	48.4610751	983.0494216	20.285 34075	4.342365 632	0.0003 17572	0.0116 67369	Up
FAM3C	1028.8 66423	1417.399037	640.3338087	0.4517 66787	- 1.146349 88	0.0200 36442	0.1837 02003	Down
FAM43 A	799.69 44089	1067.680314	531.7085041	0.4980 03473	- 1.005772 29	0.0250 32361	0.2071 37045	Down
FAM46 B	491.18 73885	826.8680712	155.5067057	0.1880 67131	- 2.410680 37	0.0064 45063	0.0880 81407	Down
FAM64 A	96.099 98829	140.9942756	51.20570101	0.3631 75745	- 1.461260 24	0.0167 93464	0.1646 3984	Down
FAM69 A	329.12 73896	525.4223581	132.8324212	0.2528 10751	- 1.983870 28	0.0001 41248	0.0064 85021	Down
FAM73 A	340.08 14687	553.4875055	126.6754319	0.2288 67735	- 2.127414	0.0003 08162	0.0114 38123	Down
FAM83 B	32.706 61169	13.17495966	52.23826371	3.9649 65742	1.987308 401	0.0149 81197	0.1544 26179	Up
FAM83 D	134.94 68151	229.5938852	40.29974492	0.1755 26212	- 2.510241 61	0.0456 01143	0.2901 58384	Down
FAM83 G	142.03 30642	68.28627695	215.7798514	3.1599 29946	1.659892 575	0.0019 38618	0.0391 1715	Up

FAM83 H	907.43 17685	409.4314198	1405.432117	3.4326 43537	1.779320 048	0.0002 38665	0.0095 6686	Up
FAM84 A	499.72 01556	175.1647418	824.2755694	4.7057 16236	2.234414 326	0.0047 64891	0.0720 48501	Up
FAM8A 1	211.32 56391	292.0058848	130.6453933	0.4474 06714	- 1.160341 19	0.0167 39039	0.1644 63792	Dow n
FANK1	38.812 18593	17.23777847	60.38659339	3.5031 54047	1.808654 43	0.0388 58194	0.2656 16885	Up
FAP	534.98 80752	937.5038374	132.4723129	0.1413 03222	- 2.823133 73	0.0015 07587	0.0332 96592	Dow n
FAR2	200.13 426	312.7437374	87.52478263	0.2798 61024	- 1.837217 52	0.0108 85652	0.1249 94445	Dow n
FAT1	2978.5 51284	4314.827263	1642.275306	0.3806 12063	- 1.393606 81	0.0109 70778	0.1256 3867	Dow n
FAT2	530.28 04669	199.9739121	860.5870217	4.3034 96454	2.105509 28	0.0193 1274	0.1798 56749	Up
FAT3	125.19 79495	249.1296399	1.266259131	0.0050 82732	- 7.620180 19	0.0161 27454	0.1607 31019	Dow n
FAT4	1259.5 03187	2001.477037	517.5293369	0.2585 73707	- 1.951352 51	0.0002 36859	0.0095 37283	Dow n
FBLN1	11207. 82252	18329.27427	4086.370778	0.2229 42312	- 2.165257 65	4.08E- 06	0.0004 30547	Dow n
FBLN2	7958.6 55049	13372.12632	2545.183778	0.1903 35009	- 2.393387 15	0.0011 16416	0.0273 62813	Dow n
FBLN5	2436.6 34052	3583.364284	1289.90382	0.3599 7005	- 1.474051 22	0.0017 56977	0.0367 06729	Dow n
FBN1	25575. 22948	48392.37508	2758.083886	0.0569 94183	- 4.133041 51	8.46E- 05	0.0044 29597	Dow n
FBN3	37.035 49732	8.357226874	65.71376776	7.8631 06836	2.975099 456	0.0249 78561	0.2069 76693	Up
FBXL2 2	254.53 39096	459.6648906	49.4029287	0.1074 75967	- 3.217914	0.0220 10586	0.1929 29521	Dow n
FBXL7	754.69 27282	1154.397835	354.9876212	0.3075 08911	- 1.701299	0.0006 12912	0.0177 83061	Dow n

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FBXL8	80.567 87589	120.8236512	40.31210054	0.3336 44118	- 1.583618 03	0.0157 63054	0.1584 12102	Dow n
FBXO1 6	34.774 80979	16.59448465	52.95513492	3.1911 2862	1.674066 758	0.0375 01066	0.2623 03892	Up
FBXO1 7	122.22 75984	177.2409172	67.2142796	0.3792 25523	- 1.398872 03	0.0107 07337	0.1237 758	Dow n
FBXO2 8	237.28 41929	360.9230844	113.6453015	0.3148 74017	- 1.667153 38	0.0017 77675	0.0368 45281	Dow n
FBXO3 0	398.98 84916	629.8217698	168.1552134	0.2669 8857	- 1.905150 12	0.0013 88151	0.0314 58359	Dow n
FBXW9	173.93 03681	100.329329	247.5314073	2.4671 88906	1.302868 183	0.0078 66427	0.1008 21561	Up
FCER1 A	42.701 515	66.03790316	19.36512684	0.2932 42606	- 1.769833 36	0.0179 24282	0.1719 98999	Dow n
FCGR2 A	188.35 75894	277.1495319	99.56564695	0.3592 48837	- 1.476944 61	0.0030 38596	0.0527 55762	Dow n
FCHO1	119.99 13559	57.84022186	182.1424899	3.1490 62782	1.654922 52	0.0040 98135	0.0648 47586	Up
FCHO2	76.093 30009	110.5320598	41.65454038	0.3768 54828	- 1.407919 22	0.0392 42258	0.2674 31466	Dow n
FER	611.31 99795	858.4113583	364.2286008	0.4243 0543	- 1.236824 95	0.0158 11818	0.1587 24846	Dow n
FERMT 2	3660.8 87358	6015.652515	1306.1222	0.2171 20619	- 2.203431 35	0.0025 30348	0.0467 19492	Dow n
FEZ1	129.65 46542	218.3035943	41.0057141	0.1878 38016	- 2.412439 02	0.0460 15651	0.2915 61756	Dow n
FEZ2	749.05 19057	1002.809845	495.2939667	0.4939 06167	- 1.017691 11	0.0353 79205	0.2528 42381	Dow n
FGD5	1182.8 19816	1672.386844	693.2527885	0.4145 28966	- 1.270455 18	0.0036 9518	0.0599 97611	Dow n
FGF10	20.856	35.55609572	6.156091937	0.1731	-	0.0377	0.2625	Dow

	09383			37455	2.530010 23	89456	90135	n
FGF13	216.79 82882	309.6678021	123.9287742	0.4001 99095	- 1.321210 19	0.0245 65391	0.2055 35751	Dow n
FGF16	13.217 70317	26.43540634	0	0	#NAME ?	0.0009 80698	0.0250 6596	Dow n
FGF2	926.36 39908	1286.207834	566.5201477	0.4404 57703	- 1.182924 61	0.0310 8833	0.2360 01279	Dow n
FGFR3	38.148 46382	12.03115632	64.26577133	5.3416 12195	2.417275 239	0.0011 46507	0.0277 98168	Up
FGFR4	149.39 97068	16.25740503	282.5420086	17.379 28089	4.119296 483	1.09E- 09	6.34E- 07	Up
FGL1	1358.7 01329	687.710338	2029.692321	2.9513 76777	1.561388 109	0.0006 40902	0.0183 31103	Up
FGL2	1617.9 9862	2810.595625	425.4016154	0.1513 56393	- 2.723978 48	0.0199 22595	0.1833 71577	Dow n
FHDC1	307.54 5698	428.2522023	186.8391938	0.4362 83089	- 1.196663 54	0.0297 88144	0.2303 25043	Dow n
FHL1	9368.8 18195	17092.69323	1644.943161	0.0962 36628	- 3.377270 1	0.0003 96103	0.0135 3277	Dow n
FHL5	302.02 99358	490.1217952	113.9380763	0.2324 68904	- 2.104890 35	0.0052 12168	0.0763 16805	Dow n
FHOD3	335.47 846	493.1565287	177.8003913	0.3605 3541	- 1.471787 13	0.0406 49465	0.2720 87459	Dow n
FIBIN	126.20 54747	210.3752015	42.03574783	0.1998 13227	- 2.323276 01	0.0015 19043	0.0333 94	Dow n
FIGF	644.36 86455	1143.477718	145.2595729	0.1270 33147	- 2.976723 1	0.0463 87671	0.2934 20711	Dow n
FILIP1	1048.3 9891	1456.425781	640.3720396	0.4396 87383	- 1.185449 96	0.0087 79233	0.1086 68325	Dow n
FILIP1L	3275.2 44604	5710.832624	839.6565838	0.1470 2875	- 2.765829 8	0.0022 21145	0.0430 83052	Dow n
FKBP10	2471.8	4465.143524	478.5485895	0.1071	-	9.66E-	0.0049	Dow

	46056			74291	3.221969 23	05	09994	n
FKBP14	913.69 52956	1335.701042	491.689549	0.3681 13473	- 1.441777 54	0.0009 15136	0.0237 86942	Dow n
FKBP4	6054.3 41678	2694.014077	9414.669279	3.4946 62244	1.805153 027	0.0045 38185	0.0693 17803	Up
FKBP7	864.30 9737	1546.40506	182.2144137	0.1178 30973	- 3.085209 27	0.0011 97244	0.0285 29826	Dow n
FKBP9	3539.6 13579	5390.861888	1688.365271	0.3131 90229	- 1.674888 89	0.0020 32343	0.0404 65151	Dow n
FKTN	51.887 50373	89.92379131	13.85121615	0.1540 32831	- 2.698690 21	0.0007 45342	0.0206 53182	Dow n
FLNA	79341. 78512	138267.6938	20415.8764	0.1476 54711	- 2.759700 71	0.0185 95668	0.1759 0312	Dow n
FLNC	9140.8 99024	17665.52396	616.2740917	0.0348 85696	- 4.841220 59	0.0058 87388	0.0828 41329	Dow n
FLRT2	1579.1 70664	2659.804846	498.5364815	0.1874 33481	- 2.415549 41	9.99E- 05	0.0049 78884	Dow n
FLT4	712.15 63956	1268.056605	156.2561867	0.1232 2493	- 3.020633 93	2.81E- 06	0.0003 2469	Dow n
FMO1	121.27 496	7.299503282	235.2504167	32.228 27741	5.010255 174	0.0004 69538	0.0149 11959	Up
FMO4	597.94 06506	244.9514795	950.9298218	3.8821 15038	1.956842 87	0.0004 26206	0.0141 70797	Up
FMO5	1718.6 3593	659.5041563	2777.767704	4.2119 03257	2.074472 299	0.0001 59134	0.0071 05497	Up
FMOD	9190.1 19622	16239.47458	2140.764663	0.1318 24749	- 2.923306 84	0.0092 42997	0.1119 76031	Dow n
FN1	87641. 78185	169039.4104	6244.153255	0.0369 39038	- 4.758709 88	0.0015 1909	0.0333 94	Dow n
FNDC1	1322.7 26988	2617.231303	28.22267392	0.0107 83408	- 6.535042 94	0.0247 45543	0.2063 44811	Dow n
FNDC3	2774.8	3917.114075	1632.624949	0.4167	-	0.0059	0.0831	Dow

B	69512			92802	1.262597 73	23008	47966	n
FOS	3524.3 21902	6673.450909	375.1928943	0.0562 21721	- 4.152728 58	0.0210 49016	0.1884 3831	Dow n
FOSL2	4845.7 05975	7243.60097	2447.81098	0.3379 27364	- 1.565214 92	0.0014 8051	0.0328 49838	Dow n
FOXA1	143.70 23826	12.47564066	274.9291244	22.037 27503	4.461873 937	4.68E- 07	8.04E- 05	Up
FOXA3	46.540 26155	5.452727218	87.62779589	16.070 45289	4.006338 682	0.0081 88042	0.1028 58007	Up
FOXF1	84.204 68638	134.8560533	33.55331942	0.2488 08404	- 2.006892 88	0.0010 27876	0.0258 60337	Dow n
FOXI1	225.61 57048	36.55818725	414.6732224	11.342 82779	3.503708 447	0.0048 36678	0.0726 46817	Up
FOXJ1	48.917 50064	5.092190129	92.74281115	18.212 75498	4.186877 265	0.0062 83139	0.0867 18856	Up
FOXN1	17.907 88833	3.593816985	32.22195968	8.9659 43403	3.164455 392	0.0436 50483	0.2827 32876	Up
FOXN2	206.82 79981	329.8795302	83.77646594	0.2539 6079	- 1.977322 33	4.08E- 05	0.0026 30672	Dow n
FOXP2	63.396 5519	113.4922101	13.30089376	0.1171 96535	- 3.092998 18	0.0225 15194	0.1957 44636	Dow n
FOXP3	85.237 07961	36.12755791	134.3466013	3.7186 73751	1.894788 182	0.0032 24321	0.0550 13076	Up
FOXP4	1960.1 81478	1036.60329	2883.759667	2.7819 31811	1.476087 058	0.0230 86241	0.1982 16423	Up
FREM1	195.40 50983	86.21672778	304.5934687	3.5328 8134	1.820845 294	0.0075 63203	0.0979 41582	Up
FRMD4 A	668.71 95655	1034.484222	302.9549087	0.2928 55997	- 1.771736 66	0.0001 33652	0.0062 62185	Dow n
FRRS1	271.66 13261	62.49966262	480.8229896	7.6932 09362	2.943585 57	0.0003 00554	0.0112 01854	Up
FRY	1506.9 42669	2159.910626	853.9747116	0.3953 75022	- 1.338706 36	0.0041 76117	0.0653 61438	Dow n
FSCN1	1989.7 05311	2683.099037	1296.311586	0.4831 39671	- 1.049487 78	0.0208 08201	0.1878 61371	Dow n

FSD1L	79.835 7379	122.3064671	37.3650087	0.3055 03131	- 1.710740 93	0.0194 75977	0.1808 16857	Dow n
FSTL1	17837. 0039	32278.57775	3395.43005	0.1051 91439	- 3.248910 8	1.90E- 05	0.0014 3031	Dow n
FSTL3	804.35 47623	1419.893126	188.8163983	0.1329 79303	- 2.910726 37	6.09E- 06	0.0005 77382	Dow n
FUT11	219.26 491	374.2065648	64.32325527	0.1718 92375	- 2.540422 54	8.26E- 07	0.0001 31818	Dow n
FUT2	132.01 46533	14.87877038	249.1505362	16.745 37142	4.065690 471	0.0001 42465	0.0065 22676	Up
FUZ	133.52 08266	57.31755795	209.7240952	3.6589 85181	1.871443 573	0.0006 89286	0.0194 03829	Up
FXYD1	1125.8 88106	2020.069852	231.7063607	0.1147 02153	- 3.124035 63	0.0006 65762	0.0189 20666	Dow n
FXYD3	120.42 10393	26.13305794	214.7090207	8.2159 92984	3.038434 95	0.0221 58228	0.1938 46887	Up
FXYD5	1163.9 86611	1709.358199	618.6150232	0.3618 99	- 1.466340 97	0.0017 22545	0.0365 56461	Dow n
FXYD6	5350.6 38398	2705.259142	7996.017655	2.9557 30758	1.563514 858	0.0004 40751	0.0143 8558	Up
FYN	1012.5 42607	1397.845568	627.2396453	0.4487 18842	- 1.156116 33	0.0184 26935	0.1751 33548	Dow n
FZD4	984.59 67151	1576.023965	393.1694653	0.2494 69217	- 2.003066 29	0.0002 87665	0.0108 10824	Dow n
FZD7	663.34 56259	366.143774	960.5474777	2.6234 16117	1.391446 661	0.0136 2147	0.1447 84205	Up
FZD8	321.05 27512	446.1242634	195.981239	0.4392 97422	- 1.186730 06	0.0330 73154	0.2436 12345	Dow n
GABPB 2	83.531 69442	125.7773221	41.28606675	0.3282 47303	- 1.607144 94	0.0134 46597	0.1436 3758	Dow n
GABRB 1	6.4322 86086	12.67701284	0.187559335	0.0147 95231	- 6.078723 95	0.0192 2876	0.1792 59742	Dow n
GABRP	82.055	26.35740783	137.7533807	5.2263	2.385807	0.0250	0.2075	Up

	39425			62985	327	9627	31254	
GABRR2	20.19540625	3.330452335	37.06036017	11.12772574	3.476086863	0.013159848	0.141895095	Up
GAD2	7.202170969	0	14.40434194	Inf	Inf	0.002282546	0.043849669	Up
GADD45A	444.9693347	622.0793234	267.859346	0.430587123	-1.21562292	0.014259145	0.149199949	Down
GADD45G	1809.867062	3382.041973	237.6921508	0.070280663	-3.8307284	1.38E-05	0.00109621	Down
GADL1	62.0109995	123.8344397	0.187559335	0.001514598	-9.36684981	0.016778609	0.16463984	Down
GAL3S T2	6.735823579	0.333045233	13.13860192	39.44990231	5.301949822	0.007662826	0.098947548	Up
GAL3S T4	339.3607873	541.7028645	137.01871	0.252940715	-1.98312881	0.027336285	0.218290946	Down
GALC	352.7227988	194.4527065	510.992891	2.62785178	1.393883905	0.002468725	0.045910642	Up
GALNT15	181.123749	304.8139595	57.4335386	0.188421615	-2.40796362	1.06E-06	0.000153074	Down
GALNT16	2398.493958	4039.327705	757.6602116	0.18757087	-2.4144923	8.17E-07	0.000131653	Down
GALNT6	310.2717936	105.9184305	514.6251568	4.858693188	2.280568334	2.17E-06	0.000261423	Up
GALNT8	31.52768257	3.214318028	59.84104711	18.61702749	4.218550837	4.23E-05	0.002665579	Up
GALNT9	8.754380951	16.33581521	1.172946697	0.071802153	-3.79982909	0.024186607	0.204014865	Down
GAMT	498.4454956	299.1233399	697.7676512	2.332708813	1.22200623	0.016545375	0.163393505	Up
GAPDH	11013.18115	15590.38288	6435.979411	0.412817277	-1.27642474	0.008575479	0.106758504	Down
GAREM	328.3821741	204.7951792	451.969169	2.206932657	1.142042607	0.043425958	0.281987349	Up
GARNL3	287.9351673	148.6656717	427.2046629	2.873593198	1.52285584	0.037745809	0.26248907	Up
GAS1	1885.5	2936.524248	834.6228015	0.2842	-	0.0305	0.2343	Down

	73525			21321	1.814913 31	78243	24948	n
GAS2L 1	795.94 90239	1084.915983	506.9820653	0.4673 00762	- 1.097576 71	0.0144 96988	0.1511 62522	Dow n
GAS6	5165.5 79435	7105.386176	3225.772695	0.4539 89778	- 1.139268 28	0.0328 09006	0.2425 90527	Dow n
GAS7	882.89 24448	1383.09405	382.6908394	0.2766 91841	- 1.853647 99	5.19E- 05	0.0031 13149	Dow n
GAT	7.8029 67598	13.76796496	1.837970233	0.1334 96144	- 2.905130 02	0.0297 66378	0.2302 5544	Dow n
GATA2	185.42 27031	277.4392774	93.40612872	0.3366 72333	- 1.570582 93	0.0013 72571	0.0312 22959	Dow n
GATA3	1911.4 04054	914.0840822	2908.724025	3.1821 18672	1.669987 639	0.0028 76024	0.0510 13374	Up
GATA5	64.161 55023	122.2103422	6.112758241	0.0500 18338	- 4.321399 06	0.0357 67829	0.2540 21996	Dow n
GCGR	88.859 60015	9.524687282	168.194513	17.658 79635	4.142315 105	0.0028 51109	0.0507 21069	Up
GCKR	16.571 39259	2.308089773	30.83469541	13.359 40039	3.739783 351	0.0018 89252	0.0382 49401	Up
GCLC	653.84 29371	378.8862965	928.7995777	2.4513 93957	1.293602 355	0.0029 10983	0.0513 29115	Up
GCNT2	68.555 19239	103.5594534	33.55093137	0.3239 77486	- 1.626034 53	0.0095 65671	0.1148 83585	Dow n
GDF1	97.459 8578	147.2419915	47.67772406	0.3238 0521	- 1.626801 89	0.0056 20894	0.0798 3882	Dow n
GDF11	106.80 41496	185.0990057	28.50929341	0.1540 21861	- 2.698792 96	0.0200 21853	0.1837 02003	Dow n
GDF6	31.448 47967	62.09674327	0.80021608	0.0128 86603	- 6.277984 18	0.0041 7799	0.0653 61438	Dow n
GEM	2719.4 13231	4618.000249	820.8262127	0.1777 44948	- 2.492119 54	0.0034 5859	0.0576 61278	Dow n
GFI1	55.421	30.2548453	80.5880687	2.6636	1.413400	0.0289	0.2264	Up

	457			41737	051	62095	63509	
GFPT1	379.52 21108	507.697091	251.3471307	0.4950 73017	- 1.014286 77	0.0282 36479	0.2226 21437	Down
GFPT2	1759.1 63628	3435.440025	82.88723157	0.0241 27108	- 5.373201 21	1.53E- 08	5.62E- 06	Down
GFRA1	210.42 09783	125.4451622	295.3967945	2.3547 88254	1.235597 336	0.0115 80989	0.1303 24052	Up
GFRA4	2575.3 60131	4195.829875	954.8903863	0.2275 80816	- 2.135549 15	0.0164 72166	0.1629 95833	Down
GGT5	4208.5 22415	2346.199471	6070.845359	2.5875 23113	1.371571 75	0.0346 15771	0.2497 73561	Up
GGT6	189.13 69774	63.47128793	314.8026668	4.9597 64913	2.310271 74	0.0050 78831	0.0753 42949	Up
GIMAP 1	182.85 29117	107.5443928	258.1614307	2.4005 10376	1.263341 172	0.0241 63957	0.2039 74553	Up
GIMAP 4	303.58 72088	162.863068	444.3113496	2.7281 28328	1.447911 509	0.0017 61192	0.0367 28491	Up
GIMAP 5	136.49 87557	76.46109958	196.5364118	2.5704 10482	1.361998 769	0.0150 37842	0.1548 33126	Up
GIMAP 6	396.66 40067	209.7411309	583.5868825	2.7824 15065	1.476337 649	0.0032 03399	0.0549 29763	Up
GIMAP 7	1419.4 23031	786.7986042	2052.047458	2.6080 97481	1.382997 793	0.0023 83121	0.0450 91696	Up
GIMAP 8	763.25 84673	475.842243	1050.674691	2.2080 31563	1.142760 795	0.0135 66593	0.1444 67397	Up
GIPC3	70.427 98415	127.9244826	12.93148566	0.1010 86871	- 3.306332 46	0.0252 33246	0.2081 31016	Down
GJA1	5716.5 18886	10878.45103	554.5867384	0.0509 80304	- 4.293916 22	0.0286 47896	0.2251 76205	Down
GJB1	130.55 23261	23.05805154	238.0466007	10.323 79516	3.367901 516	0.0004 99191	0.0155 52519	Up
GJB3	28.106 81812	12.20801102	44.00562523	3.6046 51501	1.849859 786	0.0319 29637	0.2396 91518	Up
GJC1	466.65 61239	740.8369741	192.4752737	0.2598 07867	- 1.944482 98	0.0003 88232	0.0133 57214	Down
GLA	170.18 20296	237.3266066	103.0374526	0.4341 58875	- 1.203705 02	0.0328 13398	0.2425 90527	Down

GLB1L2	67.2662634	36.40968483	98.12284197	2.694965431	1.430266767	0.0167129	0.164299865	Up
GLI1	25.34874493	44.0744204	6.623069456	0.150270143	-2.7343697	0.005847351	0.082406531	Down
GLI3	1162.254659	1704.946694	619.5626245	0.3633912	-1.46040461	0.026056276	0.21209125	Down
GLIPR2	1160.274587	1643.967823	676.5813515	0.411553889	-1.28084674	0.00185744	0.03803219	Down
GLIS2	1077.143101	1513.751432	640.5347696	0.423143956	-1.24077953	0.013822999	0.145866049	Down
GLP1R	149.8597258	21.79940451	277.920047	12.74897426	3.672309273	0.015653425	0.158100954	Up
GLRX5	897.251549	529.3369888	1265.166109	2.390095792	1.25706844	0.005543206	0.079210362	Up
GLS	1720.764521	2718.941781	722.5872616	0.265760476	-1.91180153	0.001621286	0.035067598	Down
GLYAT	20.24613819	40.49227637	0	0	#NAME?	3.16E-05	0.002154048	Down
GLYATL2	5.422440997	0.333045233	10.51183676	31.56278999	4.980152833	0.021676507	0.191351941	Up
GLYCAM1	135247.0324	3005.460878	267488.6039	89.00086034	6.475747377	0.030677539	0.234786647	Up
GMDS	926.1096665	563.692165	1288.527168	2.285870282	1.192743536	0.026860447	0.215828776	Up
GNAL	210.9859381	138.4089041	283.5629721	2.048733597	1.034732399	0.032354563	0.241674517	Up
GNAQ	379.4357501	506.55802	252.3134802	0.49809394	-1.00551023	0.028408173	0.223681816	Down
GNB4	625.4414187	1107.034913	143.8479241	0.129939826	-2.94408442	1.61E-06	0.000206207	Down
GNB5	365.8705527	576.93583	154.8052754	0.268323213	-1.89795623	0.000431261	0.014248211	Down
GNG10	1515.984857	2056.685429	975.2842857	0.474201972	-1.07642643	0.025857606	0.211009242	Down
GNG11	1831.9	2757.237081	906.6579412	0.3288	-	0.0201	0.1842	Down

	47511			2843	1.60459306	70141	27428	n
GNG12	152.2782499	237.6963655	66.86013429	0.281283789	-1.82990169	0.000581457	0.017194924	Down
GNG13	9.558784755	1.285727211	17.8318423	13.86907125	3.793799275	0.008152886	0.102696151	Up
GNG4	19.44170921	38.55495597	0.328462454	0.008519332	-6.87504404	2.79E-05	0.001934391	Down
GNMT	80.19169536	27.42343081	132.9599599	4.848407219	2.277510876	0.002528645	0.046719492	Up
GOLGA7B	206.9804205	51.79304866	362.1677923	6.992594599	2.805827866	0.021174277	0.188810073	Up
GOLT1B	337.3600829	463.6523631	211.0678028	0.455228571	-1.13533699	0.00932935	0.112645349	Down
GPA33	145.1457115	47.37073425	242.9206888	5.128075227	2.358417426	0.018923446	0.177606681	Up
GPAT2	21.38364168	38.81856976	3.948713607	0.101722285	-3.29729232	0.001541514	0.033787808	Down
GPC6	39.39942642	74.33505192	4.463800929	0.060049745	-4.05769806	0.000207785	0.008594854	Down
GPD2	298.0724409	420.4696736	175.6752082	0.417807084	-1.25909114	0.019764188	0.182424462	Down
GPI	3170.770331	4256.56903	2084.971633	0.489824461	-1.02966327	0.020093499	0.183899863	Down
GPM6A	343.278033	650.814406	35.74165994	0.05491836	-4.18656764	5.65E-05	0.003322515	Down
GPM6B	1271.848284	1756.763364	786.9332038	0.447944908	-1.15860679	0.017422372	0.168787421	Down
GPR1	286.9029904	561.9065388	11.89944208	0.021176906	-5.56136435	9.69E-06	0.000828197	Down
GPR110	337.3236008	12.74370051	661.903501	51.9396623	5.698764729	0.042496697	0.278155996	Up
GPR133	1713.04337	3235.132396	190.9543447	0.059025202	-4.082525	3.19E-06	0.00035726	Down

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GPR153	896.85 51468	1414.128548	379.5817452	0.2684 20962	- 1.897430 75	0.0002 16325	0.0088 48712	Dow n
GPR156	53.986 97515	79.84122915	28.13272116	0.3523 58317	- 1.504884 83	0.0368 26262	0.2589 03274	Dow n
GPR162	71.942 50659	131.4295381	12.45547505	0.0947 69222	- 3.399437 6	0.0029 07683	0.0513 2259	Dow n
GPR173	278.27 88273	453.1370141	103.4206405	0.2282 32603	- 2.131423 2	0.0006 14161	0.0177 83061	Dow n
GPR174	336.01 42324	203.0248434	469.0036214	2.3100 79957	1.207942 787	0.0103 22527	0.1209 14327	Up
GPR63	429.42 81693	691.6331369	167.2232016	0.2417 80205	- 2.048231 96	0.0128 53576	0.1400 15495	Dow n
GPR88	7.2883 64118	13.59134087	0.985387362	0.0725 01115	- 3.785853 02	0.0356 04957	0.2534 8453	Dow n
GPR97	34.640 89471	65.47065641	3.81113301	0.0582 11315	- 4.102556 58	0.0004 38962	0.0143 8558	Dow n
GPR98	1048.2 17349	306.1420568	1790.292641	5.8479 1472	2.547922 273	0.0247 89151	0.2063 4512	Up
GPRC5 A	365.05 92456	671.324862	58.79362928	0.0875 78507	- 3.513279 33	0.0091 3439	0.1112 58704	Dow n
GPRC5 C	432.44 81018	246.1760315	618.7201721	2.5133 24179	1.329596 768	0.0115 00125	0.1296 56719	Up
GPRIN2	91.067 82794	33.22560242	148.9100535	4.4817 86412	2.164073 896	0.0005 10445	0.0157 74927	Up
GPX2	14.908 94614	2.329184137	27.48870814	11.801 8613	3.560942 504	0.0156 97962	0.1581 10294	Up
GPX3	9613.9 52856	18685.04887	542.856841	0.0290 53006	- 5.105168 74	0.0051 51456	0.0759 65342	Dow n
GPX7	731.80 07212	1293.965719	169.6357235	0.1310 97541	- 2.931287 47	0.0008 61827	0.0226 95616	Dow n
GRASP	262.63 31153	367.1334124	158.1328183	0.4307 23037	- 1.215167 61	0.0175 56041	0.1697 17801	Dow n

GRB7	398.06 06532	89.81480976	706.3064966	7.8640 31539	2.975269 108	1.55E- 06	0.0001 99969	Up
GREB1	1760.8 39618	3271.112705	250.5665314	0.0765 99785	- 3.706515 84	0.0024 5666	0.0458 75455	Down
GRHL1	1781.6 6474	965.2592756	2598.070204	2.6915 77558	1.428451 998	0.0188 9531	0.1775 27344	Up
GRHL2	730.13 81179	241.6782317	1218.598004	5.0422 33202	2.334062 844	1.24E- 06	0.0001 70906	Up
GRHL3	73.151 13441	32.29700772	114.0052611	3.5299 01658	1.819627 991	0.0041 45979	0.0652 61182	Up
GRIN1	69.934 83481	31.52075023	108.3489194	3.4373 83901	1.781310 987	0.0126 64359	0.1384 5598	Up
GRIN3 A	15.812 83499	27.4394183	4.186251681	0.1525 63427	- 2.712518 94	0.0106 06469	0.1228 32337	Down
GRK5	1225.3 60486	1805.598682	645.1222894	0.3572 89965	- 1.484832 7	0.0020 05486	0.0401 07492	Down
GRM8	17.007 22701	32.32642	1.688034019	0.0522 18403	- 4.259297 86	0.0400 22845	0.2700 28158	Down
GRTP1	225.69 03766	137.7700193	313.6107338	2.2763 35123	1.186712 967	0.0373 65305	0.2617 60283	Up
GSAP	326.21 45411	179.051865	473.3772172	2.6437 99422	1.402612 728	0.0050 69939	0.0752 72939	Up
GSC	25.752 94098	43.03435558	8.47152637	0.1968 54961	- 2.344795 03	0.0090 17469	0.1103 92717	Down
GSDM C	13.921 6677	0	27.84333541	Inf	Inf	8.82E- 06	0.0007 74154	Up
GSN	41757. 20568	69645.81818	13868.59318	0.1991 30307	- 2.328215 28	0.0081 64386	0.1027 03874	Down
GSTA2	3.8561 15386	7.712230771	0	0	#NAME ?	0.0484 00786	0.3001 38119	Down
GSTA4	487.43 40268	676.8892147	297.978839	0.4402 18033	- 1.183709 85	0.0311 10984	0.2360 01279	Down
GSTT1	800.38 22696	480.7804125	1119.984127	2.3295 12804	1.220028 26	0.0498 42535	0.3049 20735	Up
GTDC1	227.56 15947	313.5850929	141.5380965	0.4513 54671	- 1.147666 56	0.0290 40833	0.2269 79024	Down

GTF2IR D1	211.33 38946	123.4679232	299.199866	2.4233 00387	1.276973 249	0.0070 73234	0.0934 7551	Up
GTF3C 1	5133.5 83865	2178.706124	8088.461606	3.7125 06939	1.892393 723	0.0003 19473	0.0117 08991	Up
GTF3C 4	197.66 6394	282.4480695	112.8847184	0.3996 65392	- 1.323135 44	0.0251 51804	0.2076 49151	Down
GUCD1	1507.4 47883	964.8155551	2050.080212	2.1248 41584	1.087355 286	0.0418 19471	0.2760 84356	Up
GUCY1 B3	2111.9 57294	2825.53698	1398.377609	0.4949 06851	- 1.014771 08	0.0323 30205	0.2415 92611	Down
GUCY2 D	123.29 07718	46.8054204	199.7761233	4.2682 26234	2.093636 647	0.0209 95906	0.1884 01543	Up
GYG2	370.21 79113	556.785553	183.6502697	0.3298 40221	- 1.600160 76	0.0026 30685	0.0477 41381	Down
H2AFY 2	197.17 10368	119.6946888	274.6473848	2.2945 6618	1.198221 418	0.0116 23899	0.1307 25383	Up
HAND2	50.571 46046	97.5307684	3.612152526	0.0370 36031	- 4.754926 71	0.0034 38619	0.0574 8772	Down
HAPLN 3	432.12 33086	646.1126108	218.1340064	0.3376 09888	- 1.566570 93	0.0007 82865	0.0212 0436	Down
HAS1	15.365 2151	30.2144084	0.516021789	0.0170 78666	- 5.871660 9	0.0358 96994	0.2543 67895	Down
HCFC2	514.74 87984	687.1650617	342.3325351	0.4981 80938	- 1.005258 27	0.0215 58636	0.1907 1834	Down
HCN1	65.055 58546	129.2200305	0.89114046	0.0068 96303	- 7.179961 16	0.0035 91851	0.0591 18063	Down
HDAC1 0	787.32 23372	457.7508943	1116.89378	2.4399 59799	1.286857 378	0.0040 55193	0.0644 7387	Up
HDDC3	204.09 54611	134.1396558	274.0512664	2.0430 29443	1.030709 996	0.0355 77076	0.2534 8453	Up
HDGFR P3	381.06 25619	532.7801566	229.3449672	0.4304 68298	- 1.216021 1	0.0273 81566	0.2184 59116	Down
HEATR 5A	1121.4 40575	1683.270677	559.6104732	0.3324 5424	- 1.588772 32	0.0009 25237	0.0239 80387	Down

HEG1	2437.8 78965	3931.612959	944.1449705	0.2401 41891	- 2.058041	4.07E- 06	0.0004 30547	Dow n
HENM T1	51.819 24034	86.62402334	17.01445734	0.1964 17307	- 2.348006 04	0.0239 88223	0.2028 70863	Dow n
HEPAC AM	91.173 16698	49.5286193	132.8177147	2.6816 3572	1.423113 271	0.0141 64843	0.1483 85364	Up
HEPAC AM2	876.33 02002	77.10804105	1675.552359	21.729 93032	4.441611 643	3.49E- 06	0.0003 83581	Up
HERC1	41.787 82549	63.60835407	19.96729691	0.3139 09976	- 1.671577 22	0.0267 49662	0.2154 18369	Dow n
HGF	208.66 32362	331.7177763	85.60869614	0.2580 76902	- 1.954127 07	0.0002 25912	0.0091 57809	Dow n
HGFAC	100.05 2658	53.81299469	146.2923214	2.7185 31504	1.442827 547	0.0160 2716	0.1600 85238	Up
HHAT	90.837 28598	49.68950504	131.9850669	2.6561 96048	1.409361 633	0.0168 52717	0.1649 26736	Up
HHIPL1	392.72 83029	686.6317478	98.82485805	0.1439 27015	- 2.796590 68	3.10E- 08	9.33E- 06	Dow n
HIC1	272.52 40948	441.706296	103.3418936	0.2339 60653	- 2.095662 17	3.25E- 05	0.0021 93601	Dow n
HIF3A	119.19 30451	225.7321538	12.65393641	0.0560 57306	- 4.156953 78	0.0009 585	0.0247 00555	Dow n
HJURP	113.87 40578	157.5162368	70.23187872	0.4458 70725	- 1.165302 62	0.0421 55444	0.2771 25457	Dow n
HKDC1	82.596 24873	40.94996736	124.2425301	3.0340 08037	1.601224 907	0.0479 57223	0.2988 5548	Up
HMCN1	842.50 85305	1469.55305	215.4640113	0.1466 18736	- 2.769858 62	4.22E- 05	0.0026 65579	Dow n
HMGA 1	477.75 94671	226.155974	729.3629602	3.2250 4397	1.689318 83	0.0004 06809	0.0136 89126	Up
HOME R2	429.72 45005	195.0949977	664.3540032	3.4052 84661	1.767775 404	0.0343 52646	0.2489 61254	Up
HOME R3	572.80 38674	779.6922714	365.9154634	0.4693 07542	- 1.091394 45	0.0379 59263	0.2626 37007	Dow n
HOOK1	331.32	174.8672511	487.7768868	2.7894	1.479961	0.0098	0.1168	Up

	20689			12447	269	26883	53752	
HOOK2	796.45 83238	340.0217916	1252.894856	3.6847 48704	1.881566 232	9.88E- 05	0.0049 78884	Up
HOXA1 1	15.656 40902	31.31281803	0	0	#NAME ?	1.87E- 05	0.0014 1432	Dow n
HOXA1 3	7.9425 81991	15.88516398	0	0	#NAME ?	0.0403 60531	0.2709 57801	Dow n
HOXB3	123.19 21123	174.187697	72.19652752	0.4144 7547	- 1.270641 38	0.0385 70527	0.2647 54087	Dow n
HOXC1 0	197.31 7932	320.19877	74.43709391	0.2324 71517	- 2.104874 13	0.0006 13402	0.0177 83061	Dow n
HOXC1 1	12.425 33924	22.92510639	1.925572092	0.0839 94031	- 3.573569 39	0.0163 34225	0.1619 86301	Dow n
HOXC6	642.32 4305	957.229163	327.419447	0.3420 49177	- 1.547724 34	0.0014 12878	0.0318 49714	Dow n
HOXC8	258.69 49289	424.4354066	92.95445114	0.2190 07297	- 2.190949 16	0.0007 81984	0.0212 0436	Dow n
HOXD4	402.78 84377	612.7031139	192.8737614	0.3147 91548	- 1.667531 29	0.0008 58316	0.0226 69336	Dow n
HOXD8	290.95 80077	435.2166334	146.6993821	0.3370 72094	- 1.568870 9	0.0016 12326	0.0349 15671	Dow n
HPDL	30.265 03795	14.24847115	46.28160476	3.2481 80404	1.699631 762	0.0267 38889	0.2154 18369	Up
HPGDS	8.5773 54636	14.98827659	2.166432687	0.1445 41814	- 2.790441 19	0.0297 5576	0.2302 5544	Dow n
HPN	2564.7 63096	824.2109448	4305.315248	5.2235 59909	2.385033 353	0.0039 80735	0.0637 73075	Up
HS3ST2	57.851 679	115.703358	0	0	#NAME ?	1.90E- 05	0.0014 3031	Dow n
HS3ST6	87.324 17773	30.34434816	144.3040073	4.7555 48101	2.249611 629	0.0090 454	0.1105 48763	Up
HSD11 B1	104.86 9982	200.7048251	9.035138844	0.0450 17048	- 4.473384 72	0.0005 51044	0.0165 94785	Dow n
HSD17 B11	514.03 11869	328.1543065	699.9080674	2.1328 62661	1.092791 071	0.0177 49657	0.1710 1194	Up

HSD17 B14	75.121 65288	40.30287584	109.9404299	2.7278 55709	1.447767 334	0.0172 32014	0.1674 82917	Up
HSD3B 7	611.02 39691	818.3622449	403.6856933	0.4932 84845	- 1.019507 13	0.0373 21692	0.2616 81546	Dow n
HSPA12 A	465.66 87624	687.9009857	243.4365392	0.3538 83109	- 1.498655 19	0.0030 99023	0.0534 64611	Dow n
HSPA13	547.98 64846	763.3108568	332.6621124	0.4358 14727	- 1.198213 15	0.0158 76284	0.1591 95264	Dow n
HSPA2	877.92 41571	1393.036717	362.8115968	0.2604 46543	- 1.940940 81	0.0010 24323	0.0258 06935	Dow n
HSPA6	103.27 92533	35.24754943	171.3109571	4.8602 23189	2.281022 566	0.0024 50603	0.0458 46759	Up
HSPB6	3852.5 31866	7365.208886	339.854846	0.0461 43273	- 4.437735 84	0.0021 09105	0.0412 20089	Dow n
HSPB7	320.10 0762	632.1698388	8.031685291	0.0127 04949	- 6.298465 65	0.0015 47087	0.0338 68811	Dow n
HSPG2	29832. 68206	45537.31548	14128.04864	0.3102 52119	- 1.688487 03	0.0003 20003	0.0117 08991	Dow n
HTR2A	100.60 10012	177.9405659	23.26143651	0.1307 25877	- 2.935383 35	0.0035 85054	0.0590 60079	Dow n
HTRA1	7522.2 17098	11831.67008	3212.764115	0.2715 39359	- 1.880766 76	0.0001 95934	0.0082 19649	Dow n
ID1	742.32 71785	1213.998004	270.656353	0.2229 46292	- 2.165231 89	0.0038 76281	0.0623 76665	Dow n
ID2	1216.2 44808	1872.60671	559.8829052	0.2989 85848	- 1.741850 9	0.0265 75747	0.2147 84904	Dow n
ID3	1635.3 04501	2645.723994	624.8850076	0.2361 86771	- 2.081999 93	0.0001 77505	0.0076 42038	Dow n
IDH3A	807.38 76922	1161.249992	453.5253929	0.3905 49319	- 1.356423 35	0.0104 80179	0.1221 26582	Dow n
IER3	677.77	1146.105634	209.4476213	0.1827	-	0.0227	0.1967	Dow

	66278			47222	2.452078 62	43223	69787	n
IFI44	183.83 86788	110.1182598	257.5590977	2.3389 31782	1.225849 784	0.0105 8569	0.1228 32337	Up
IFI44L	633.14 38763	234.0649683	1032.222784	4.4099 84081	2.140773 448	3.88E- 05	0.0025 28054	Up
IFI6	483.64 35094	696.4119797	270.875039	0.3889 5804	- 1.362313 56	0.0269 27173	0.2161 72351	Down
IFNLR1	32.052 58352	9.43434254	54.6708245	5.7948 73809	2.534777 245	0.0017 53373	0.0367 06729	Up
IGF1	2250.2 63214	4122.632717	377.8937112	0.0916 63201	- 3.447513 52	0.0009 01212	0.0235 26726	Down
IGFALS	91.881 45307	145.7039428	38.05896331	0.2612 07505	- 1.936731 75	0.0001 9337	0.0081 50018	Down
IGFBP2	627.08 61452	1015.741716	238.4305744	0.2347 35436	- 2.090892 45	0.0288 74932	0.2263 68928	Down
IGFBP4	7576.5 40771	12617.49059	2535.590956	0.2009 58419	- 2.315031 08	6.16E- 06	0.0005 78459	Down
IGFBP5	8235.3 60655	12854.84815	3615.873159	0.2812 84782	- 1.829896 59	0.0133 53638	0.1431 291	Down
IGFBP6	3203.0 89937	5345.42508	1060.754793	0.1984 41616	- 2.333213 48	8.58E- 07	0.0001 35077	Down
IGLON 5	46.399 66671	18.44443469	74.35489873	4.0312 91822	2.011242 222	0.0054 58242	0.0785 80386	Up
IGSF1	34.838 77165	64.03176258	5.645780722	0.0881 71565	- 3.503542 72	0.0034 49404	0.0575 6133	Down
IGSF11	20.983 61794	39.80983628	2.157399591	0.0541 92627	- 4.205759 62	0.0065 50399	0.0890 62785	Down
IGSF5	386.04 62915	77.0511059	695.0414771	9.0205 2565	3.173211 506	4.46E- 09	2.12E- 06	Up
IGSF9	388.31 53319	173.4062585	603.2244053	3.4786 77243	1.798538 83	0.0254 50166	0.2089 64746	Up
IGSF9B	46.488 5035	69.04293029	23.93407671	0.3466 54996	- 1.528427 54	0.0146 16875	0.1517 98394	Down

IKBIP	782.93 11663	1146.925536	418.936796	0.3652 69394	- 1.452967 22	0.0023 17063	0.0441 36754	Down
IKBKE	1882.1 9728	956.3760644	2808.018495	2.9361 02857	1.553902 509	0.0004 43968	0.0144 30152	Up
IKZF1	468.83 04708	307.8913814	629.7695603	2.0454 27701	1.032402 544	0.0453 77076	0.2892 51645	Up
IL12RB 1	62.057 23535	35.54670531	88.56776539	2.4915 88591	1.317065 871	0.0480 21176	0.2988 99472	Up
IL13RA 1	3447.9 78509	5369.557896	1526.399122	0.2842 6905	- 1.814671 06	0.0009 92671	0.0252 56401	Down
IL17D	189.37 63135	256.8775942	121.8750328	0.4744 47891	- 1.075678 45	0.0400 63937	0.2700 72255	Down
IL17RE	197.64 23242	107.2100694	288.0745789	2.6870 1047	1.426001 943	0.0237 55871	0.2013 77893	Up
IL18BP	726.60 01328	378.7607533	1074.439512	2.8367 23454	1.504225 512	0.0017 45002	0.0367 06729	Up
IL20RA	163.67 22178	36.68305115	290.6613845	7.9235 88015	2.986153 87	3.64E- 07	6.51E- 05	Up
IL21R	96.477 3452	50.13888418	142.8158062	2.8484 04159	1.510153 864	0.0190 70096	0.1786 11349	Up
IL2RB	488.01 10376	203.8814068	772.1406684	3.7872 04926	1.921133 488	6.62E- 05	0.0037 80951	Up
IL2RG	458.92 0087	245.1751561	672.665018	2.7436 10033	1.456075 436	0.0042 76042	0.0664 38865	Up
IL33	1415.3 7781	2107.111507	723.6441124	0.3434 29434	- 1.541914 4	0.0072 74381	0.0951 16362	Down
IL34	1444.9 00199	569.1599433	2320.640454	4.0773 08112	2.027616 982	0.0176 13628	0.1700 66421	Up
IL6	48.578 0459	95.69895082	1.457140988	0.0152 26301	- 6.037290 73	0.0004 04264	0.0136 85629	Down
IL6ST	3507.4 2684	5309.707855	1705.145824	0.3211 37409	- 1.638737 36	0.0009 14966	0.0237 86942	Down
IL7	98.312 35577	61.1044292	135.5202823	2.2178 4712	1.149159 922	0.0415 33175	0.2746 46511	Up
ILDR1	194.42 65154	62.69119565	326.1618351	5.2026 73704	2.379253 229	3.72E- 05	0.0024 67197	Up
IMPA2	642.58 33311	218.549184	1066.617478	4.8804 45942	2.287012 977	0.0328 399	0.2426 13887	Up

IMPAD 1	557.19 67597	857.9604454	256.4330739	0.2988 86825	- 1.742328 79	0.0003 60837	0.0127 38044	Dow n
INADL	637.96 3584	415.6955906	860.2315773	2.0693 78644	1.049197 646	0.0358 49174	0.2543 64694	Up
INHBA	771.65 58154	1486.022696	57.28893476	0.0385 51857	- 4.697055 83	0.0151 75924	0.1554 56272	Dow n
INO80D	64.873 22164	94.85830068	34.8881426	0.3677 92195	- 1.443037 23	0.0142 4724	0.1491 61905	Dow n
INPP5A	1484.1 30525	2169.508337	798.7527122	0.3681 72225	- 1.441547 3	0.0418 52667	0.2761 44941	Dow n
INPP5B	1460.6 22172	969.3295651	1951.914779	2.0136 7507	1.009830 906	0.0187 30429	0.1764 65324	Up
IQGAP 2	1930.6 61051	737.520741	3123.801361	4.2355 43745	2.082547 19	3.45E- 05	0.0022 95847	Up
IQGAP 3	160.29 96293	246.2820201	74.31723846	0.3017 56655	- 1.728542 51	0.0024 02199	0.0452 80316	Dow n
IRAK3	145.83 0096	216.5323546	75.12783746	0.3469 58946	- 1.527163 13	0.0055 39551	0.0792 10362	Dow n
IRF6	795.19 1369	308.5522167	1281.830521	4.1543 39045	2.054618 963	0.0019 56511	0.0394 34083	Up
IRF7	470.19 17469	284.9440386	655.4394552	2.3002 39227	1.201783 911	0.0096 46518	0.1154 70167	Up
IRF8	485.57 60366	248.363666	722.7884072	2.9102 01878	1.541119 235	0.0044 42758	0.0684 39713	Up
IRX1	1409.4 75701	617.8493564	2201.102046	3.5625 22196	1.832899 003	0.0212 67638	0.1893 01998	Up
IRX3	1900.7 57315	1133.236228	2668.278401	2.3545 65036	1.235460 572	0.0298 8011	0.2308 38247	Up
IRX4	548.29 41288	177.8184846	918.769773	5.1668 96878	2.369298 09	4.55E- 06	0.0004 68611	Up
ISL2	72.154 1694	127.4657626	16.84257615	0.1321 34118	- 2.919925 06	0.0047 96963	0.0721 73265	Dow n
ITGA1	2524.2 38648	4613.92349	434.5538063	0.0941 83141	- 3.408387 35	0.0030 30237	0.0527 12105	Dow n
ITGA11	1727.1 08756	3407.686985	46.53052683	0.0136 54578	- 6.194471	0.0003 32935	0.0120 35715	Dow n

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ITGA5	6545.5 12184	11483.17185	1607.852514	0.1400 18153	- 2.836314 21	0.0081 58079	0.1026 96151	Dow n
ITGA8	1720.0 92499	3316.624394	123.5606044	0.0372 54928	- 4.746424 9	0.0061 23344	0.0851 64995	Dow n
ITGA9	442.59 37699	747.8557416	137.3317982	0.1836 34076	- 2.445094 3	5.52E- 05	0.0032 55701	Dow n
ITGB1	20134. 11463	30351.2064	9917.022864	0.3267 42296	- 1.613774 88	0.0036 51442	0.0595 01686	Dow n
ITGB2	623.54 88809	413.9940357	833.1037262	2.0123 56832	1.008886 147	0.0350 06355	0.2514 85321	Up
ITGB5	3927.7 39867	5669.880002	2185.599731	0.3854 75483	- 1.375288 99	0.0034 31159	0.0574 75259	Dow n
ITGB6	1068.2 46778	169.8022217	1966.691334	11.582 24736	3.533843 308	1.75E- 08	6.12E- 06	Up
ITGBL1	898.60 69695	1771.648452	25.56548694	0.0144 30339	- 6.114751 04	0.0029 34227	0.0515 89196	Dow n
ITIH2	995.46 21236	17.12291624	1973.801331	115.27 24981	6.848904 544	6.93E- 14	1.39E- 10	Up
ITIH5	2819.1 6745	4970.359689	667.9752116	0.1343 91725	- 2.895483 79	0.0013 22912	0.0305 16647	Dow n
ITK	123.45 80263	76.24119574	170.6748569	2.2386 17263	1.162607 891	0.0475 82272	0.2974 13932	Up
ITPRIP L2	1130.0 50418	1683.837289	576.2635467	0.3422 32323	- 1.546952 07	0.0008 88023	0.0232 49706	Dow n
ITSN1	1082.5 0202	1468.782148	696.2218919	0.4740 13041	- 1.077001 35	0.0107 35283	0.1239 08471	Dow n
JADE1	2072.5 31504	2796.851818	1348.211189	0.4820 45985	- 1.052757 32	0.0159 28832	0.1594 43543	Dow n
JAM3	1420.6 32903	2000.368193	840.8976133	0.4203 71418	- 1.250263 52	0.0037 65279	0.0608 07396	Dow n
JAZF1	242.71 07524	434.1092012	51.31230353	0.1182 01373	- 3.080681	0.0042 69726	0.0663 97921	Dow n

					3			
JPH2	1616.0 03729	2891.398778	340.6086803	0.1178 00659	- 3.085580 49	0.0176 8885	0.1705 44722	Dow n
JUP	5365.0 49017	3566.011489	7164.086545	2.0089 91437	1.006471 415	0.0186 74748	0.1761 89212	Up
KANK1	3404.4 82015	4682.744072	2126.219958	0.4540 54274	- 1.139063 34	0.0496 2088	0.3044 91699	Dow n
KANK2	2986.5 71712	4481.030192	1492.113232	0.3329 84418	- 1.586473 43	0.0035 31385	0.0584 96472	Dow n
KBTD 12	59.437 45173	118.0746874	0.80021608	0.0067 77203	- 7.205094 38	0.0365 85843	0.2579 02315	Dow n
KCNA1	26.740 47571	11.70450858	41.77644284	3.5692 6073	1.835625 292	0.0207 50722	0.1876 3021	Up
KCNA2	18.048 06552	32.19646171	3.899669337	0.1211 21053	- 3.045478 44	0.0384 72877	0.2643 45915	Dow n
KCNA4	28.863 76629	6.072363962	51.65516861	8.5065 9956	3.088582 542	0.0137 80961	0.1456 32543	Up
KCNA6	119.31 13906	200.9235994	37.69918173	0.1876 29436	- 2.414041 91	0.0073 48879	0.0958 40468	Dow n
KCNB2	44.641 58519	88.34205118	0.941119198	0.0106 53128	- 6.552579 06	2.48E- 08	7.73E- 06	Dow n
KCND3	66.634 3431	20.16464457	113.1040416	5.6090 27287	2.487750 601	0.0157 30926	0.1582 8958	Up
KCNE1 L	15.999 19596	28.5704762	3.427915712	0.1199 81049	- 3.059121 54	0.0088 80657	0.1094 24976	Dow n
KCNE3	232.01 02864	67.62979502	396.3907779	5.8611 85559	2.551192 512	0.0383 89195	0.2643 13518	Up
KCNE4	280.09 36536	491.6082274	68.57907977	0.1394 99455	- 2.841668 61	4.60E- 05	0.0028 40009	Dow n
KCNG1	539.49 81993	1060.163528	18.83287065	0.0177 64119	- 5.814890 08	0.0357 01982	0.2539 1239	Dow n
KCNG2	45.816 38431	2.927726518	88.7050421	30.298 26781	4.921163 41	0.0029 8639	0.0522 51682	Up
KCNH2	181.12	331.1826457	31.06226592	0.0937	-	0.0379	0.2626	Dow

	24558			91949	3.414392 1	97971	37007	n
KCNJ11	47.164 68585	2.946688385	91.38268331	31.011 99427	4.954754 399	2.70E- 06	0.0003 13944	Up
KCNJ8	433.25 51254	690.7542266	175.7560241	0.2544 40751	- 1.974598 35	0.0013 57698	0.0310 36526	Down
KCNK1 2	110.99 7663	219.9255283	2.069797732	0.0094 11357	- 6.731381 48	1.05E- 05	0.0008 78244	Down
KCNK2	113.80 0221	65.15420388	162.4462382	2.4932 57971	1.318032 162	0.0167 71499	0.1646 3984	Up
KCNK7	32.261 71358	13.29152417	51.23190299	3.8544 79164	1.946535 929	0.0131 06338	0.1415 2317	Up
KCNN4	408.54 39916	182.7398244	634.3481587	3.4713 1864	1.795483 799	0.0008 76453	0.0230 1359	Up
KCNQ3	6.4605 13784	12.73346823	0.187559335	0.0147 29635	- 6.085134 54	0.0179 32603	0.1719 98999	Down
KCNQ5	75.988 62631	42.68042806	109.2968246	2.5608 18378	1.356604 936	0.0327 91539	0.2425 90527	Up
KCNT1	169.69 08125	88.15773898	251.2238861	2.8497 08817	1.510814 512	0.0041 17907	0.0649 32626	Up
KCTD1	669.49 88003	232.8768377	1106.120763	4.7498 1013	2.247869 844	0.0045 25209	0.0693 15676	Up
KCTD1 0	2112.1 14657	3014.882754	1209.346559	0.4011 25569	- 1.317874 17	0.0036 38475	0.0594 19902	Down
KCTD1 5	536.47 9545	889.7064031	183.2526869	0.2059 69842	- 2.279494 98	0.0058 69431	0.0826 5314	Down
KCTD9	636.29 80651	933.6976511	338.8984791	0.3629 63834	- 1.462102 29	0.0091 45118	0.1112 58704	Down
KDELC 1	375.58 04163	524.7587002	226.4021323	0.4314 40455	- 1.212766 63	0.0309 08709	0.2358 55412	Down
KDELC 2	1160.4 9957	1612.256583	708.7425569	0.4395 96628	- 1.185747 78	0.0136 72817	0.1448 2909	Down
KDELR 3	2076.4 9967	3207.688786	945.3105529	0.2947 01455	- 1.762673 91	8.47E- 05	0.0044 29597	Down
KDF1	299.39	100.7598902	498.0335423	4.9427	2.305321	7.32E-	0.0006	Up

	67163			75753	455	06	66813	
KIAA01 95	2109.9 51485	1237.746978	2982.155992	2.4093 42171	1.268639 298	0.0024 52582	0.0458 46759	Up
KIAA04 08	175.78 46258	321.1686867	30.40056491	0.0946 56068	- 3.401161 2	0.0193 94005	0.1802 84617	Down
KIAA05 56	1502.6 87241	855.5955274	2149.778955	2.5126 11259	1.329187 48	0.0018 64761	0.0380 52508	Up
KIAA07 54	312.22 55194	505.8473777	118.6036612	0.2344 65308	- 2.092553 62	2.34E- 05	0.0016 7798	Down
KIAA12 11	129.38 6738	203.754254	55.01922208	0.2700 27354	- 1.888822 53	0.0012 64487	0.0295 48792	Down
KIAA12 11L	388.00 07177	110.3904795	665.6109558	6.0296 04715	2.592063 426	3.50E- 07	6.50E- 05	Up
KIAA12 17	2660.0 88898	1670.913905	3649.26389	2.1839 92771	1.126968 081	0.0129 76785	0.1408 47308	Up
KIAA12 44	987.10 74102	503.3861401	1470.82868	2.9218 69641	1.546891 814	0.0007 85544	0.0212 13218	Up
KIAA13 24	806.27 76731	55.62520206	1556.930144	27.989 65373	4.806821 734	0.0414 42198	0.2743 57952	Up
KIAA13 24L	143.53 09742	259.8222737	27.23967461	0.1048 39644	- 3.253743 74	0.0035 46134	0.0586 48091	Down
KIAA14 62	947.75 64958	1382.481608	513.031384	0.3710 94546	- 1.430141 3	0.0026 67257	0.0482 11067	Down
KIAA14 67	681.35 96113	219.7685362	1142.950686	5.2007 02095	2.378706 4	0.0413 8063	0.2743 38426	Up
KIAA15 22	1461.7 62939	663.6174418	2259.908435	3.4054 38575	1.767840 61	0.0002 56109	0.0099 14059	Up
KIAA15 49L	20.116 5469	4.523272101	35.7098217	7.8946 87938	2.980882 24	0.0052 92409	0.0771 16126	Up
KIAA16 14	272.67 38036	394.9946745	150.3529327	0.3806 45468	- 1.393480 19	0.0078 95563	0.1010 12811	Down
KIAA17 55	245.98 10925	60.60542236	431.3567626	7.1174 61537	2.831362 792	0.0143 1786	0.1497 27468	Up
KIAA20 18	169.22 7145	237.2972068	101.1570832	0.4262 88554	- 1.230097 78	0.0243 45313	0.2044 53029	Down
KIAA20 22	65.880 94256	93.65720007	38.10468506	0.4068 52704	- 1.297421	0.0458 97133	0.2909 12993	Down

					52			
KIF11	161.81 54642	237.0542881	86.57664019	0.3652 18621	- 1.453167 77	0.0111 32063	0.1268 66675	Dow n
KIF13B	2530.0 75661	1440.220265	3619.931057	2.5134 56548	1.329672 748	0.0030 96311	0.0534 64611	Up
KIF1A	591.89 49577	196.6176887	987.1722267	5.0207 70171	2.327908 686	0.0083 42904	0.1045 12259	Up
KIF20A	198.32 75607	286.8175267	109.8375947	0.3829 52869	- 1.384761 25	0.0109 88402	0.1256 9422	Dow n
KIF21A	204.06 4754	122.2588668	285.8706413	2.3382 40562	1.225423 364	0.0369 7198	0.2596 09787	Up
KIF23	197.32 49445	270.2189766	124.4309124	0.4604 81769	- 1.118784 05	0.0303 34295	0.2331 34516	Dow n
KIF26B	364.27 35217	575.8831114	152.6639321	0.2650 95345	- 1.915416 76	0.0423 55443	0.2777 35309	Dow n
KIF7	657.22 83741	972.9543833	341.5023648	0.3509 95248	- 1.510476 6	0.0154 05532	0.1566 65588	Dow n
KIR2D L5A	31.520 6893	8.357226874	54.68415173	6.5433 36989	2.710026 573	0.0007 53929	0.0207 0773	Up
KIR2DS 1	65.943 08523	12.78119404	119.1049764	9.3187 67563	3.220139 166	5.00E- 06	0.0005 00664	Up
KIRRE L	2123.6 3078	3367.701002	879.5605574	0.2611 75371	- 1.936909 24	0.0030 08077	0.0524 8778	Dow n
KITLG	141.73 11114	209.1260208	74.33620197	0.3554 61275	- 1.492235 7	0.0026 88585	0.0485 47933	Dow n
KLB	36.696 78157	73.39356315	0	0	#NAME ?	7.77E- 05	0.0041 45649	Dow n
KLC3	99.551 50171	14.21841659	184.8845868	13.003 17695	3.700792 242	3.73E- 08	1.08E- 05	Up
KLF12	171.77 22107	253.9354384	89.60898299	0.3528 80967	- 1.502746 48	0.0124 17583	0.1366 69171	Dow n
KLF13	75.420 80633	106.8845497	43.95706293	0.4112 57408	- 1.281886 43	0.0217 19453	0.1913 51941	Dow n
KLF4	1161.1 81615	1976.809896	345.5533345	0.1748 03523	- 2.516193	0.0010 93155	0.0270 12915	Dow n

					83			
KL F5	605.97 08091	153.8230468	1058.118571	6.8788 03882	2.782157 724	1.81E- 07	3.85E- 05	Up
KL F6	2014.5 3071	2958.174738	1070.886682	0.3620 09272	- 1.465901 45	0.0006 97421	0.0195 35381	Down
KL F7	827.64 96344	1287.322574	367.9766946	0.2858 46533	- 1.806687 3	0.0001 22899	0.0058 96208	Down
KLHL1 5	188.96 06406	264.7419561	113.179325	0.4275 08079	- 1.225976 41	0.0171 61423	0.1671 5708	Down
KLHL2 8	93.647 23817	137.0179543	50.27652208	0.3669 33825	- 1.446408 19	0.0205 98857	0.1866 98305	Down
KLHL2 9	174.54 72144	249.5087724	99.58565638	0.3991 26874	- 1.325080 67	0.0156 86232	0.1581 00954	Down
KLHL3	214.43 64956	317.6777977	111.1951936	0.3500 25071	- 1.514469 84	0.0053 7118	0.0779 18506	Down
KLHL3 0	31.289 80541	59.00030531	3.579305511	0.0606 65881	- 4.042970 82	0.0213 28063	0.1894 32264	Down
KLHL3 2	98.842 29641	177.5435458	20.14104704	0.1134 42857	- 3.139962 33	0.0040 48526	0.0644 7387	Down
KLHL4	43.647 64341	83.02382134	4.271465487	0.0514 48674	- 4.280722 31	2.10E- 06	0.0002 56181	Down
KLHL4 0	317.17 47475	88.40972472	545.9397703	6.1751 09944	2.626464 823	0.0033 32547	0.0561 83009	Up
KLHL6	92.601 42341	44.43533815	140.7675087	3.1679 18025	1.663535 004	0.0051 6588	0.0759 65342	Up
KLK1	24.297 83375	6.829229377	41.76643812	6.1158 34718	2.612549 418	0.0044 03243	0.0678 88976	Up
KLK10	152.19 69456	257.3478246	47.04606666	0.1828 11208	- 2.451573 57	4.90E- 05	0.0029 83785	Down
KLK14	9.6765 29786	17.8049942	1.548065368	0.0869 4557	- 3.523743 67	0.0315 88384	0.2381 50572	Down
KLK7	501.48 41096	870.8463653	132.121854	0.1517 16605	- 2.720549	9.68E- 07	0.0001 46743	Down

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KLK8	8.6177 07693	16.48517805	0.750237342	0.0455 09811	- 4.457678 59	0.0235 61994	0.2004 18389	Dow n
KLRD1	46.119 45952	22.10793226	70.13098678	3.1722 0923	1.665487 93	0.0201 66983	0.1842 27428	Up
KLRK1	81.292 4718	46.45703601	116.1279076	2.4996 83957	1.321745 702	0.0412 55098	0.2741 80238	Up
KPNA3	320.60 79918	469.0277772	172.1882063	0.3671 1729	- 1.445687 03	0.0040 9792	0.0648 47586	Dow n
KRBA1	665.89 83819	415.2787403	916.5180235	2.2069 94807	1.142083 235	0.0083 85627	0.1049 01752	Up
KRT1	7.7062 74989	0.309818372	15.10273161	48.747 04976	5.607243 002	0.0108 17206	0.1243 66846	Up
KRT17	2591.9 78564	724.3343871	4459.622741	6.1568 5631	2.622193 899	1.18E- 07	2.81E- 05	Up
KRT18	1953.2 55829	283.0691797	3623.442478	12.800 55455	3.678134 408	0.0019 78398	0.0397 0332	Up
KRT19	9767.7 94885	4364.360817	15171.22895	3.4761 62854	1.797495 672	0.0458 15205	0.2907 83181	Up
KRT222	10.428 04038	0.354139598	20.50194116	57.892 25856	5.855298 537	0.0023 15486	0.0441 36754	Up
KRT5	4905.4 41577	1716.693931	8094.189223	4.7149 868	2.237253 732	5.15E- 06	0.0005 10487	Up
KRT7	4611.9 35293	1003.367476	8220.503111	8.1929 13674	3.034376 614	1.63E- 06	0.0002 06718	Up
KRT75	25.775 95517	1.618772445	49.93313789	30.846 29841	4.947025 469	0.0347 48381	0.2504 29904	Up
KRT8	4126.0 12072	668.8107711	7583.213373	11.338 35414	3.503139 33	0.0001 51778	0.0069 03794	Up
KRTCA P3	436.81 23946	178.9735678	694.6512215	3.8813 06218	1.956542 26	0.0040 49477	0.0644 7387	Up
KYNU	100.60 75255	34.42057322	166.7944778	4.8457 78619	2.276728 496	0.0055 45593	0.0792 10362	Up
LAD1	722.68 39418	215.8157468	1229.552137	5.6972 3088	2.510260 872	2.61E- 07	5.21E- 05	Up
LAMA4	7585.0 02344	12034.6698	3135.33489	0.2605 25211	- 1.940505 11	5.18E- 05	0.0031 13149	Dow n
LAMB1	7008.0 02237	9408.346342	4607.658131	0.4897 41551	- 1.029907 49	0.0155 87598	0.1577 0313	Dow n
LAMB2	11678.	17784.50875	5571.822369	0.3132	-	0.0005	0.0161	Dow

	16556			96389	1.674399 95	31904	53229	n
LAMB3	1310.9 69643	570.5678124	2051.371474	3.5953 15806	1.846118 5	0.0002 07901	0.0085 94854	Up
LAMC1	14532. 99359	23302.60461	5763.382576	0.2473 27828	- 2.015503 52	2.34E- 05	0.0016 7798	Down
LAMC2	572.92 6102	274.650957	871.2012471	3.1720 30626	1.665406 701	0.0010 11254	0.0255 40201	Up
LAMC3	168.31 16668	56.10827095	280.5150626	4.9995 31404	2.321792 88	0.0025 5084	0.0469 93118	Up
LAMP3	213.22 65757	120.524845	305.9283063	2.5383 00765	1.343863 025	0.0166 83909	0.1642 80045	Up
LAMP5	6.0232 57004	12.04651401	0	0	#NAME ?	0.0356 21891	0.2534 8453	Down
LAP3	2333.9 59986	1456.989423	3210.93055	2.2038 11846	1.140001 057	0.0203 0741	0.1849 30623	Up
LAT	169.50 38365	102.1739415	236.8337315	2.3179 46514	1.212847 277	0.0299 54936	0.2312 18267	Up
LATS2	680.38 04021	920.5888499	440.1719543	0.4781 4174	- 1.064489 74	0.0398 67854	0.2696 40422	Down
LCA5	58.201 66787	17.97525181	98.42808393	5.4757 55499	2.453058 029	0.0276 70149	0.2197 89437	Up
LCAT	907.55 86967	1318.78235	496.3350434	0.3763 58573	- 1.409820 26	0.0037 10981	0.0601 45904	Down
LCK	327.40 30214	142.5637204	512.2423223	3.5930 7628	1.845219 564	0.0002 08213	0.0085 94854	Up
LCNL1	71.049 5901	21.08666072	121.0125195	5.7388 1854	2.520753 758	7.29E- 05	0.0040 02829	Up
LCP2	703.13 56715	367.6204736	1038.650869	2.8253 3467	1.498421 77	0.0024 66035	0.0459 07943	Up
LDB2	752.77 13	1205.448709	300.0938908	0.2489 47872	- 2.006084 41	1.34E- 05	0.0010 78071	Down
LDHA	726.24 86915	1192.708658	259.7887249	0.2178 14068	- 2.198830 96	1.44E- 05	0.0011 30707	Down
LDHD	141.14 83023	23.48486463	258.81174	11.020 36329	3.462099 879	1.95E- 08	6.50E- 06	Up
LDLRA D1	712.66 45116	42.12666811	1383.202355	32.834 364	5.037134 606	0.0001 21863	0.0058 62103	Up
LDLRA	1895.7	3137.359877	654.1289945	0.2084	-	0.0185	0.1759	Down

D4	44436			96641	2.261903 96	94029	0312	n
LDOC1	48.182 45274	86.79657597	9.568329509	0.1102 3856	- 3.181299 15	0.0002 55548	0.0099 14059	Dow n
LEPR	17.450 7283	32.36561582	2.535840783	0.0783 49839	- 3.673925 88	0.0083 07131	0.1042 08852	Dow n
LEPRE L2	2353.3 434	3202.687106	1503.999694	0.4696 05567	- 1.090478 58	0.0185 72384	0.1759 0312	Dow n
LGALS 1	5963.4 65995	10356.16808	1570.763913	0.1516 74239	- 2.720952 02	7.07E- 05	0.0039 50957	Dow n
LGALS 12	25.169 87472	48.9792434	1.360506033	0.0277 77196	- 5.169955 23	0.0310 81518	0.2360 01279	Dow n
LGALS 4	469.10 17752	278.5734163	659.6301342	2.3678 8615	1.243599 717	0.0066 95236	0.0903 24507	Up
LGALS 7	35.276 96579	19.01017875	51.54375283	2.7113 76549	1.439025 485	0.0377 73075	0.2625 77459	Up
LGALS L	1349.0 63738	1970.278177	727.8492982	0.3694 14485	- 1.436687 66	0.0045 12716	0.0692 2184	Dow n
LGI2	133.80 15411	233.9402902	33.66279196	0.1438 94803	- 2.796913 61	0.0069 82912	0.0926 89287	Dow n
LHCGR	13.615 30358	27.23060716	0	0	#NAME ?	3.01E- 05	0.0020 70784	Dow n
LHFP	2118.9 32611	3418.330461	819.5347611	0.2397 47084	- 2.060414 83	0.0286 43153	0.2251 76205	Dow n
LHFPL 2	1324.6 19287	1809.77979	839.4587842	0.4638 45816	- 1.108282 77	0.0475 6794	0.2974 13932	Dow n
LIF	213.57 06261	400.3799391	26.76131309	0.0668 39795	- 3.903148 88	0.0327 63479	0.2425 90527	Dow n
LIMCH 1	1015.6 428	1484.007847	547.277753	0.3687 83598	- 1.439153 6	0.0014 09064	0.0318 12389	Dow n
LIME1	189.00 51602	111.7252417	266.2850786	2.3833 92281	1.253016 423	0.0262 07891	0.2128 60941	Up
LIMS2	2456.0	4046.154522	865.872522	0.2139	-	0.0066	0.0903	Dow

	13522			98877	2.224324 87	99606	24507	n
LINGO 4	6.7909 48994	0.666090467	12.91580752	19.390 47046	4.277275 902	0.0199 23959	0.1833 71577	Up
LIPH	94.362 13233	13.07418304	175.6500816	13.434 8801	3.747911 541	6.58E- 09	2.83E- 06	Up
LIX1L	813.78 07865	1228.749842	398.811731	0.3245 67066	- 1.623411 48	0.0002 888	0.0108 30897	Dow n
LLGL2	1200.4 34009	513.6195151	1887.248502	3.6744 09649	1.877512 477	0.0001 74943	0.0075 86063	Up
LMAN1 L	127.09 9555	13.37462955	240.8244805	18.006 06736	4.170411 217	0.0217 06062	0.1913 51941	Up
LMAN2 L	359.76 71388	208.5011086	511.033169	2.4509 8538	1.293361 879	0.0079 62517	0.1016 53109	Up
LMBR1 L	506.21 32214	305.5095071	706.9169356	2.3138 95048	1.210323 429	0.0059 49796	0.0834 59071	Up
LMO1	83.717 07916	50.34937908	117.0847792	2.3254 46339	1.217507 649	0.0390 74918	0.2664 92421	Up
LMOD1	2975.2 76659	4970.605843	979.9474751	0.1971 48498	- 2.342645 38	0.0377 00349	0.2623 75233	Dow n
LMX1A	37.787 06389	69.70223013	5.871897646	0.0842 42608	- 3.569306 09	0.0387 59654	0.2654 04161	Dow n
LMX1B	416.28 81499	91.25783706	741.3184628	8.1233 4027	3.022073 077	0.0011 72984	0.0282 49053	Up
LNPEP	420.31 83903	630.5747451	210.0620355	0.3331 27892	- 1.585851 94	0.0017 55598	0.0367 06729	Dow n
LNX1	297.35 73801	185.0804694	409.6342907	2.2132 767	1.146183 826	0.0217 24418	0.1913 51941	Up
LOC100 126544	133.07 49525	87.84218393	178.3077211	2.0298 6439	1.021383 348	0.0404 06458	0.2710 64373	Up
LOC100 137797	131.09 89145	211.1207126	51.07711636	0.2419 33232	- 2.047319 14	0.0079 44542	0.1014 95459	Dow n
LOC100 138381	11.221 16426	1.665226167	20.77710235	12.477 04532	3.641204 425	0.0439 98093	0.2839 64796	Up
LOC100 139075	5.9406 57513	0.9991357	10.88217933	10.891 59292	3.445143 062	0.0492 7299	0.3030 20077	Up
LOC100 139101	8.3792 08409	1.26250035	15.49591647	12.273 98984	3.617532 389	0.0210 79078	0.1885 20321	Up
LOC100	39.445	60.6936036	18.19643714	0.2998	-	0.0113	0.1283	Dow

139363	02037			08152	1.737888 48	36725	76132	n
LOC100 139916	113.97 83431	50.2918512	177.664835	3.5326 76383	1.820761 595	0.0397 82175	0.2693 86183	Up
LOC100 295741	2268.8 03152	5.026774539	4532.579529	901.68 74527	9.816483 636	0.0020 52457	0.0405 96787	Up
LOC100 295973	690.28 90292	929.4230033	451.155055	0.4854 14126	- 1.042712	0.0395 99356	0.2689 50594	Dow n
LOC100 297152	49.674 0048	73.22700881	26.12100079	0.3567 12656	- 1.487165 69	0.0379 01208	0.2626 37007	Dow n
LOC100 297621	5.7556 2736	11.51125472	0	0	#NAME ?	0.0183 11023	0.1742 99877	Dow n
LOC100 299144	20.956 76474	5.096455123	36.81707437	7.2240 55442	2.852808 965	0.0036 06167	0.0591 91673	Up
LOC100 299281	3306.4 7868	1300.15017	5312.807191	4.0863 02732	2.030796 089	1.76E- 05	0.0013 48405	Up
LOC100 300091	363.65 31735	9.046544202	718.2598029	79.396 04194	6.310995 183	4.61E- 24	8.31E- 20	Up
LOC100 300510	434.47 1383	191.7524358	677.1903303	3.5315 86587	1.820316 469	0.0003 11982	0.0115 24399	Up
LOC100 300716	264.50 97076	11.46627268	517.5531424	45.136 99934	5.496238 608	0.0386 07313	0.2649 05792	Up
LOC100 300760	134.41 73285	57.2378757	211.5967813	3.6967 96549	1.886275 648	0.0006 10361	0.0177 83061	Up
LOC100 300806	30.940 74372	1.018097568	60.86338986	59.781 4903	5.901626 957	0.0262 87486	0.2131 68387	Up
LOC100 335205	246.61 08623	110.6074585	382.6142661	3.4592 08548	1.790441 993	0.0002 73573	0.0104 4412	Up
LOC100 335643	10.649 09798	1.308954073	19.98924189	15.271 15604	3.932737 374	0.0040 25722	0.0642 65484	Up
LOC100 336482	20.209 32608	34.40823945	6.010412712	0.1746 79461	- 2.517218 11	0.0151 03985	0.1550 51755	Dow n
LOC100 336574	184.34 03939	271.1878457	97.49294205	0.3595 03361	- 1.475922 84	0.0029 84914	0.0522 51682	Dow n
LOC100 336747	274.02 81019	374.7345722	173.3216315	0.4625 18391	- 1.112417 36	0.0407 94077	0.2726 47198	Dow n
LOC100 336869	46.229 8334	15.55273002	76.90693677	4.9449 15567	2.305945 887	0.0010 71544	0.0265 51613	Up
LOC100 336949	4812.6 0462	7981.025065	1644.184175	0.2060 11654	- 2.279202	0.0393 53771	0.2679 52254	Dow n

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LOC100 337066	42.997 82735	11.0448156	74.9508391	6.7860 65227	2.762575 297	0.0028 33698	0.0505 60901	Up
LOC100 337146	30.073 5314	49.66713859	10.47992421	0.2110 03181	- 2.244663 35	0.0096 85168	0.1156 14855	Down
LOC100 337214	33.799 28173	14.01450024	53.58406322	3.8234 72995	1.934883 685	0.0411 12672	0.2738 34966	Up
LOC100 337430	198.62 87024	58.88729544	338.3701094	5.7460 62998	2.522573 81	0.0048 7894	0.0731 59761	Up
LOC100 847119	392.00 8993	50.92879706	733.0891889	14.394 39435	3.847435 184	0.0098 77558	0.1172 24519	Up
LOC100 847265	138.51 91503	210.5923245	66.44597607	0.3155 19458	- 1.664199 12	0.0033 49159	0.0564 10345	Down
LOC100 847295	42.224 72913	61.88492067	22.56453758	0.3646 20934	- 1.455530 7	0.0310 71813	0.2360 01279	Down
LOC100 847319	100.58 51476	40.4211241	160.749171	3.9768 60481	1.991629 949	0.0004 75475	0.0150 47528	Up
LOC100 847677	12.781 56802	0	25.56313604	Inf	Inf	0.0012 55204	0.0295 34737	Up
LOC100 847777	21.502 61172	43.00522345	0	0	#NAME ?	0.0344 15526	0.2491 25873	Down
LOC100 847951	23.822 25903	11.12492807	36.51958999	3.2826 81	1.714874 56	0.0345 49277	0.2495 93277	Up
LOC100 847952	25.818 83117	42.03652297	9.601139372	0.2283 99941	- 2.130365 82	0.0072 39554	0.0949 08662	Down
LOC100 848100	126.25 60785	251.9961353	0.516021789	0.0020 47737	- 8.931753 91	0.0063 66509	0.0876 12167	Down
LOC100 848461	128.65 31446	189.8583132	67.44797603	0.3552 54268	- 1.493076 11	0.0052 47171	0.0765 80676	Down
LOC100 848575	184.93 32492	79.79816147	290.0683369	3.6350 25313	1.861965 411	0.0090 62568	0.1106 64907	Up
LOC100 848815	2378.7 64355	1252.914094	3504.614615	2.7971 70717	1.483968 307	0.0008 99685	0.0235 20904	Up
LOC100 848982	10.568 54042	20.14930542	0.987775415	0.0490 22802	- 4.350403 24	0.0258 69702	0.2110 09242	Down
LOC100 850276	235.68 74707	334.5599214	136.81502	0.4089 40256	- 1.290038	0.0178 78263	0.1717 28429	Down

LOC100 852118	2180.3 64022	3670.160744	690.567301	0.1881 57236	- 2.409989 32	0.0006 35597	0.0182 86337	Dow n
LOC101 902029	34.324 44159	14.40423148	54.2446517	3.7658 83087	1.912988 212	0.0308 49915	0.2356 061	Up
LOC101 902512	508.28 33368	788.4534648	228.1132088	0.2893 17276	- 1.789275 62	0.0178 36563	0.1715 10533	Dow n
LOC101 902550	16.662 49858	29.3786716	3.946325554	0.1343 26208	- 2.896187 28	0.0091 01165	0.1109 29669	Dow n
LOC101 903023	60.592 53268	90.44793937	30.73712599	0.3398 32242	- 1.557105 36	0.0155 16448	0.1573 22315	Dow n
LOC101 903444	95.903 25081	9.426043158	182.3804585	19.348 57027	4.274155 06	0.0068 54184	0.0917 91116	Up
LOC101 903503	95.360 16241	60.45450729	130.2658175	2.1547 74282	1.107536 751	0.0486 57328	0.3013 14635	Up
LOC101 903854	87.539 06776	37.84050989	137.2376256	3.6267 38277	1.858672 637	0.0031 14376	0.0536 07095	Up
LOC101 904210	162.89 72704	232.2027216	93.59181912	0.4030 60819	- 1.310930 55	0.0085 08406	0.1059 96647	Dow n
LOC101 904339	154.31 3861	74.25465931	234.3730627	3.1563 41499	1.658253 306	0.0055 24549	0.0792 10362	Up
LOC101 904653	6.4008 94372	0.642863606	12.15892514	18.913 6934	4.241359 21	0.0223 27099	0.1946 29282	Up
LOC101 904723	60.855 18683	12.65762076	109.0527529	8.6155 80679	3.106948 036	0.0039 57888	0.0634 63416	Up
LOC101 904834	7.9101 31782	0.952681978	14.86758159	15.606 02796	3.964031 485	0.0402 40903	0.2703 87671	Up
LOC101 905023	6.7681 89367	0.619636744	12.91674199	20.845 66822	4.381675 714	0.0223 52065	0.1946 92853	Up
LOC101 905132	38.417 09666	16.72701812	60.1071752	3.5934 1843	1.845356 937	0.0448 58887	0.2879 43731	Up
LOC101 905432	672.15 67842	435.5882767	908.7252917	2.0862 02362	1.060879 106	0.0294 33682	0.2290 18434	Up
LOC101 905478	166.87 08459	273.7550027	59.98668918	0.2191 25454	- 2.190171 02	0.0230 28212	0.1980 00911	Dow n
LOC101 905630	135.72 31516	201.5580831	69.8882201	0.3467 39853	- 1.528074 43	0.0087 31765	0.1082 55887	Dow n
LOC101	39.970	73.79146224	6.149446894	0.0833	-	0.0001	0.0055	Dow

905885	45457			3548	3.584925 34	14809	84507	n
LOC101 905937	230.73 01133	127.5394345	333.9207921	2.6181 76828	1.388562 538	0.0081 37507	0.1026 96151	Up
LOC101 906179	56.465 31889	22.11305767	90.8175801	4.1069 66186	2.038073 069	0.0019 0168	0.0384 57857	Up
LOC101 906282	16.866 26626	31.47517546	2.257357067	0.0717 18649	- 3.801507 87	0.0104 36556	0.1216 96857	Down
LOC101 906365	4.0674 82644	0	8.134965288	Inf	Inf	0.0384 81755	0.2643 45915	Up
LOC101 906436	12.936 88749	25.26111823	0.612656744	0.0242 52954	- 5.365695 7	0.0003 85561	0.0133 24005	Down
LOC101 906598	598.02 71762	32.92687674	1163.127476	35.324 56129	5.142599 738	9.22E- 07	0.0001 40895	Up
LOC101 907048	143.47 47518	52.45543586	234.4940678	4.4703 48287	2.160387 237	0.0002 68369	0.0102 7836	Up
LOC101 907229	66.609 67326	109.395714	23.82363255	0.2177 74826	- 2.199090 9	0.0007 81724	0.0212 0436	Down
LOC101 908130	12.128 97407	24.25794814	0	0	#NAME ?	0.0043 70572	0.0675 58475	Down
LOC101 909753	67.822 84208	98.40500313	37.24068104	0.3784 42964	- 1.401852 21	0.0118 53661	0.1326 47766	Down
LOC104 968414	204.16 98898	382.3630044	25.97677515	0.0679 3747	- 3.879648 7	0.0014 99628	0.0331 92379	Down
LOC104 968434	40.370 70887	1.972912043	78.7685057	39.924 99615	5.319220 363	3.27E- 05	0.0022 00123	Up
LOC104 968448	94.458 33009	42.79077614	146.125884	3.4148 92115	1.771840 001	0.0440 2675	0.2840 48121	Up
LOC104 968450	380.88 37193	82.1532977	679.6141408	8.2725 11997	3.048325 479	0.0006 49294	0.0185 32615	Up
LOC104 968838	13.070 97522	0.9991357	25.14281474	25.164 56446	4.653321 723	0.0081 43112	0.1026 96151	Up
LOC104 968844	80.436 17307	160.0278619	0.844484243	0.0052 77108	- 7.566036 89	0.0210 13576	0.1884 01543	Down
LOC104 968894	4.1513 36685	8.30267337	0	0	#NAME ?	0.0397 68133	0.2693 86183	Down
LOC104 969591	95.587 2687	174.7874805	16.38705693	0.0937 5418	- 3.414973	1.01E- 06	0.0001 47603	Down

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LOC104 970193	8.4327 27799	0	16.8654556	Inf	Inf	0.0008 37099	0.0222 39222	Up
LOC104 970256	5.8687 42604	0.619636744	11.11784846	17.942 52611	4.165311 115	0.0432 0911	0.2815 38325	Up
LOC104 971974	69.785 3239	123.7053232	15.86532456	0.1282 50945	- 2.962958 64	0.0148 96326	0.1538 81552	Down
LOC104 972276	40.333 76434	0.619636744	80.04789194	129.18 51922	7.013296 901	5.94E- 05	0.0034 40494	Up
LOC104 972294	76.763 74346	110.5367735	42.99071338	0.3889 26798	- 1.362429 45	0.0273 33898	0.2182 90946	Down
LOC104 972380	81.862 69762	0.309818372	163.4155769	527.45 60566	9.042907 095	0.0001 36393	0.0063 41209	Up
LOC104 972773	35.282 09119	17.43529732	53.12888505	3.0472 02699	1.607485 471	0.0404 93957	0.2714 49455	Up
LOC104 972835	67.982 27125	32.4981803	103.4663622	3.1837 58637	1.670730 968	0.0049 46531	0.0739 2749	Up
LOC104 972858	9.6280 60916	2.369240369	16.88688146	7.1275 50959	2.833406 449	0.0452 92138	0.2892 42548	Up
LOC104 972930	58.903 34159	88.21868998	29.58799321	0.3353 93704	- 1.576072 49	0.0296 2953	0.2295 90679	Down
LOC104 973704	37.735 40664	13.82038597	61.65042731	4.4608 3253	2.157312 987	0.0039 86868	0.0638 14647	Up
LOC104 973854	226.76 3241	308.8055579	144.7209241	0.4686 47407	- 1.093425 19	0.0235 19824	0.2002 23737	Down
LOC104 974494	77.616 13938	118.3148316	36.91744719	0.3120 27213	- 1.680256 24	0.0080 43353	0.1023 23016	Down
LOC104 974854	125.26 75895	52.69709488	197.8380841	3.7542 50297	1.908524 838	0.0005 54161	0.0165 98835	Up
LOC104 975409	16.219 15796	2.594681284	29.84363463	11.501 84988	3.523794 009	0.0026 22258	0.0476 36363	Up
LOC104 975474	19.482 10853	32.24544713	6.718769943	0.2083 63367	- 2.262826 44	0.0324 34585	0.2420 71772	Down
LOC104 975541	269.97 92222	539.9584444	0	0	#NAME ?	7.38E- 05	0.0040 11515	Down
LOC104 975620	209.83 10917	371.6839268	47.97825652	0.1290 83485	- 2.953623 66	0.0208 28358	0.1878 61371	Down

LOC104 975635	130.78 34001	180.6713168	80.89548348	0.4477 49454	- 1.159236 42	0.0224 19738	0.1951 88056	Dow n
LOC104 975830	2161.5 15912	16.81523037	4306.216593	256.09 02527	8.000508 532	0.0049 28323	0.0737 57653	Up
LOC104 975908	15.239 99194	28.12599186	2.353992022	0.0836 94543	- 3.578722 64	0.0130 23897	0.1410 29279	Dow n
LOC504 219	1389.3 52269	1941.428777	837.275761	0.4312 67822	- 1.213344 02	0.0376 24382	0.2623 50059	Dow n
LOC504 773	1092.3 00245	1848.934766	335.6657233	0.1815 45466	- 2.461597 2	0.0050 16251	0.0746 17795	Dow n
LOC505 052	17.869 46542	0	35.73893084	Inf	Inf	0.0020 69899	0.0407 63009	Up
LOC506 831	1769.0 5498	836.319129	2701.79083	3.2305 73995	1.691790 52	0.0041 72904	0.0653 61438	Up
LOC507 019	20.816 32048	7.175269193	34.45737177	4.8022 40981	2.263707 801	0.0112 70305	0.1279 47691	Up
LOC507 513	257.66 07263	70.82795696	444.4934956	6.2756 78626	2.649771 475	0.0193 99855	0.1802 84617	Up
LOC507 550	103.37 80722	5.537104675	201.2190397	36.340 11844	5.183491 216	5.86E- 05	0.0034 19145	Up
LOC508 455	39.721 75104	19.78430374	59.65919834	3.0154 8132	1.592388 298	0.0163 91102	0.1624 61035	Up
LOC508 547	1224.1 94007	1838.759338	609.6286762	0.3315 43483	-1.59273	0.0187 49972	0.1765 29613	Dow n
LOC508 744	130.10 05325	50.50922334	209.6918416	4.1515 55453	2.053651 969	0.0001 39651	0.0064 71652	Up
LOC508 879	514.05 81902	67.96531634	960.151064	14.127 07416	3.820390 796	0.0119 58138	0.1331 56085	Up
LOC509 055	820.47 69643	1244.056897	396.8970315	0.3190 34469	- 1.648215 79	0.0002 9968	0.0111 92401	Dow n
LOC509 513	74.907 20081	27.91499868	121.899403	4.3668 06689	2.126578 667	0.0005 42106	0.0163 52935	Up
LOC509 972	407.84 60382	558.9899224	256.702154	0.4592 25012	- 1.122726 87	0.0474 56534	0.2970 93093	Dow n
LOC510 369	185.19 13525	60.26526928	310.1174357	5.1458 73227	2.363415 915	3.77E- 05	0.0024 89362	Up
LOC510 536	148.54 04153	215.6582824	81.42254822	0.3775 53541	- 1.405246	0.0147 83697	0.1529 14629	Dow n

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LOC511 617	165.27 05606	71.49868061	259.0424406	3.6230 38053	1.857199 959	0.0002 95731	0.0110 67837	Up
LOC511 713	376.18 74323	135.2817198	617.0931447	4.5615 41246	2.189521 362	0.0014 34164	0.0321 77724	Up
LOC512 548	29.948 32837	1.572318722	58.32433801	37.094 4753	5.213132 429	3.38E- 07	6.42E- 05	Up
LOC512 672	512.61 99342	733.4583937	291.7814747	0.3978 15987	- 1.329826 84	0.0033 70457	0.0566 10493	Dow n
LOC512 684	756.26 31286	474.3744912	1038.151766	2.1884 64568	1.129919 027	0.0245 24123	0.2053 80992	Up
LOC513 329	251.50 54676	41.09488415	461.9160511	11.240 23247	3.490599 968	5.81E- 10	3.88E- 07	Up
LOC513 659	240.56 94682	357.1474869	123.9914496	0.3471 71558	- 1.526279 33	0.0022 94963	0.0439 81857	Dow n
LOC514 257	463.84 53344	628.4350621	299.2556068	0.4761 91774	- 1.070385 4	0.0137 03355	0.1449 82304	Dow n
LOC515 150	241.00 12386	434.5232888	47.47918839	0.1092 67304	- 3.194066 32	0.0047 63019	0.0720 48501	Dow n
LOC515 676	1174.3 93619	2333.311813	15.47542507	0.0066 32386	- 7.236256 27	0.0064 11635	0.0879 72275	Dow n
LOC515 736	312.16 85927	198.3863594	425.950826	2.1470 77185	1.102374 055	0.0253 79176	0.2087 51475	Up
LOC516 421	58.842 90062	12.42065695	105.2651443	8.4750 0617	3.083214 418	7.17E- 05	0.0039 67823	Up
LOC519 494	187.79 97967	256.9701085	118.6294849	0.4616 4702	- 1.115137 92	0.0432 88429	0.2818 0439	Dow n
LOC520 788	18.416 14582	4.586555194	32.24573645	7.0304 91314	2.813625 513	0.0041 74333	0.0653 61438	Up
LOC520 966	26.814 47592	39.65638951	13.97256233	0.3523 40758	- 1.504956 72	0.0294 7191	0.2290 19384	Dow n
LOC521 656	52.270 88936	17.76577985	86.77599887	4.8844 46369	2.288195 048	0.0025 80998	0.0472 76381	Up
LOC522 437	13.633 29415	1.686320532	25.58026777	15.169 27967	3.923080 675	0.0013 71714	0.0312 22959	Up
LOC524 810	4432.6 34211	162.37637	8702.892053	53.597 0354	5.744081 298	0.0320 36634	0.2402 94739	Up

LOC525 353	513.21 00439	755.067132	271.3529557	0.3593 75934	- 1.476434 3	0.0030 60122	0.0530 27408	Down
LOC525 947	373.66 883	163.5997879	583.737872	3.5680 84528	1.835149 793	0.0008 20866	0.0219 04736	Up
LOC526 769	30.320 03272	10.61246543	50.02760001	4.7140 41268	2.236964 388	0.0129 41626	0.1407 19708	Up
LOC527 119	146.88 94263	31.05499046	262.7238621	8.4599 56296	3.080650 21	0.0115 60103	0.1301 70221	Up
LOC527 981	39.582 70985	12.9273829	66.23803679	5.1238 55097	2.357229 677	0.0426 9967	0.2790 79474	Up
LOC528 098	950.36 06738	1811.302386	89.41896129	0.0493 67219	- 4.340302 82	0.0005 10702	0.0157 74927	Down
LOC528 479	41.518 54931	6.02591024	77.01118839	12.780 00921	3.675816 971	0.0005 33975	0.0161 88863	Up
LOC529 196	41.113 69682	19.07559434	63.15179931	3.3106 07167	1.727095 832	0.0232 42698	0.1989 9147	Up
LOC530 077	104.54 76387	64.96263984	144.1326375	2.2187 00439	1.149714 893	0.0410 87103	0.2738 34966	Up
LOC530 173	10.595 11117	0	21.19022234	Inf	Inf	0.0001 73199	0.0075 46698	Up
LOC530 653	45.753 19816	23.3295345	68.17686181	2.9223 41284	1.547124 672	0.0197 81213	0.1824 3011	Up
LOC530 929	210.61 20799	101.6655257	319.5586341	3.1432 34954	1.652250 116	0.0035 47431	0.0586 48091	Up
LOC531 296	617.23 17731	94.3080273	1140.155519	12.089 69747	3.595706 238	0.0001 11609	0.0055 00846	Up
LOC531 462	44.609 81841	63.88172039	25.33791644	0.3966 37978	- 1.334105 27	0.0424 62369	0.2780 3219	Down
LOC531 691	150.82 53859	218.2136998	83.43707199	0.3823 64041	- 1.386981 24	0.0126 59791	0.1384 5598	Down
LOC531 974	1419.4 68261	1922.018447	916.9180753	0.4770 59977	- 1.067757 44	0.0289 26451	0.2264 63509	Down
LOC533 307	423.35 00043	643.4585988	203.2414097	0.3158 57788	- 1.662652 95	0.0014 73185	0.0327 67914	Down
LOC533 821	1667.0 28146	786.2394701	2547.816823	3.2405 09946	1.696220 862	0.0114 77091	0.1294 98032	Up
LOC534 967	63.427 14671	10.38915702	116.4651364	11.210 25856	3.486747 649	0.0030 74288	0.0532 21771	Up

LOC535 280	1410.4 68026	1957.11196	863.824092	0.4413 76942	- 1.179916 83	0.0238 55822	0.2018 45764	Dow n
LOC537 655	101.97 17602	199.5254411	4.41807918	0.0221 42937	- 5.497009 63	0.0032 94228	0.0555 94325	Dow n
LOC539 805	240.73 26285	147.7542731	333.7109838	2.2585 5386	1.175399 318	0.0122 82433	0.1355 34935	Up
LOC540 707	1364.7 6334	29.58495105	2699.941729	91.260 64548	6.511920 953	9.84E- 05	0.0049 72847	Up
LOC613 677	36.661 98893	55.75016504	17.57381283	0.3152 24409	- 1.665548 84	0.0380 72576	0.2629 36903	Dow n
LOC614 376	34.799 66671	14.78629314	54.81304028	3.7070 17017	1.890258 738	0.0297 58513	0.2302 5544	Up
LOC614 705	482.33 07214	286.4702023	678.1912405	2.3674 05877	1.243307 068	0.0065 57893	0.0890 79698	Up
LOC615 277	24.688 05011	2.501773839	46.87432638	18.736 43638	4.227774 677	0.0016 40371	0.0352 6895	Up
LOC615 514	71.068 12103	42.70664783	99.42959424	2.3281 99456	1.219214 659	0.0379 2784	0.2626 37007	Up
LOC615 697	41.978 37881	0.642863606	83.31389402	129.59 80878	7.017900 622	1.67E- 08	6.03E- 06	Up
LOC615 867	59.903 88093	118.0721371	1.735624703	0.0146 99698	- 6.088069 72	0.0009 96114	0.0253 01271	Dow n
LOC616 111	2375.6 64544	3661.692812	1089.636276	0.2975 77195	- 1.748664 13	0.0008 5275	0.0225 8604	Dow n
LOC616 957	106.32 28898	211.7046604	0.941119198	0.0044 45434	- 7.813459 85	0.0464 18367	0.2934 20711	Dow n
LOC617 141	26.893 3903	10.36806265	43.41871796	4.1877 36843	2.066170 786	0.0208 25334	0.1878 61371	Up
LOC617 302	38.698 93406	9.859865012	67.5380031	6.8497 89831	2.776059 723	0.0004 45756	0.0144 62216	Up
LOC751 811	14.106 78226	4.609782055	23.60378247	5.1203 68422	2.356247 619	0.0238 2867	0.2017 10642	Up
LOC768 255	457.50 98966	239.5286952	675.491098	2.8200 84238	1.495738 258	0.0014 61508	0.0326 69331	Up
LOC781 261	35.832 63334	6.16313891	65.50212777	10.628 04664	3.409804 558	0.0059 70607	0.0836 20953	Up
LOC781 635	6.2304 96146	0.333045233	12.12794706	36.415 31492	5.186473 416	0.0192 46161	0.1793 29283	Up

LOC782 865	11.291 65947	2.32705164	20.2562673	8.7046 91788	3.121793 216	0.0202 35106	0.1846 3383	Up
LOC782 892	18.592 60292	32.77283724	4.412368605	0.1346 34929	- 2.892875 35	0.0113 16244	0.1282 24699	Down
LOC783 396	38.461 9539	18.10352028	58.82038752	3.2491 13244	1.700046 028	0.0260 66029	0.2120 9125	Up
LOC783 399	428.11 03392	14.71404985	841.5066286	57.190 68762	5.837708 346	2.14E- 11	2.15E- 08	Up
LOC784 007	2198.6 39964	3676.285654	720.9942754	0.1961 20308	- 2.350189 16	0.0181 44032	0.1730 83126	Down
LOC785 370	11.934 27065	3.676061944	20.19247936	5.4929 64936	2.457585 083	0.0395 7239	0.2689 50594	Up
LOC785 756	206.56 30549	3.121410583	410.0046992	131.35 23768	7.037298 496	0.0015 84925	0.0345 71291	Up
LOC786 065	30.043 71899	8.157145317	51.93029265	6.3662 33607	2.670440 097	0.0011 26509	0.0274 50006	Up
LOC786 073	189.80 55176	257.4536771	122.1573581	0.4744 82864	- 1.075572 11	0.0450 08958	0.2884 25076	Down
LOC786 372	318.80 46936	200.0161254	437.5932618	2.1877 89914	1.129474 207	0.0235 7602	0.2004 18389	Up
LOC786 966	10953. 92907	14907.20651	7000.651635	0.4696 15258	- 1.090448 81	0.0172 30137	0.1674 82917	Down
LOC786 987	65.126 36151	26.72984849	103.5228745	3.8729 31588	1.953426 018	0.0086 42123	0.1073 65875	Up
LOC787 679	1261.6 74307	827.745059	1695.603556	2.0484 61102	1.034540 498	0.0194 08655	0.1802 84617	Up
LOC787 891	93.311 91839	36.15377768	150.4700591	4.1619 45687	2.057258 138	0.0005 36746	0.0162 45573	Up
LOC787 904	9.8123 6869	19.01208064	0.612656744	0.0322 24603	- 4.955693 62	0.0071 97867	0.0944 9951	Down
LOC788 054	21.611 85325	9.170977891	34.05272861	3.7130 96794	1.892622 924	0.0395 22018	0.2687 28866	Up
LOC788 414	148.59 99412	73.82929936	223.3705831	3.0255 00513	1.597173 829	0.0057 39205	0.0813 08118	Up
LOC789 374	193.74 91438	116.5501009	270.9481867	2.3247 35755	1.217066 739	0.0155 03533	0.1573 22315	Up
LOC789 829	196.50 43092	106.3079251	286.7006934	2.6968 89186	1.431296 243	0.0133 51751	0.1431 291	Up
LONP2	1912.7	1236.845066	2588.588653	2.0928	1.065500	0.0145	0.1516	Up

	1686			96453	936	95597	64736	
LOX	1918.6 48378	3782.04294	55.25381583	0.0146 09516	- 6.096947 83	0.0002 02339	0.0084 10137	Dow n
LOXL1	2554.0 9371	4466.676622	641.5107972	0.1436 215	- 2.799656 36	0.0003 57937	0.0126 60457	Dow n
LOXL2	1959.3 39723	3448.925847	469.7535986	0.1362 0287	- 2.876170 99	8.87E- 08	2.25E- 05	Dow n
LOXL4	479.16 89245	884.349073	73.98877601	0.0836 64673	- 3.579237 61	2.82E- 09	1.41E- 06	Dow n
LPAR2	219.35 82806	65.74805106	372.9685101	5.6726 93017	2.504033 793	2.54E- 06	0.0002 99999	Up
LPAR3	161.32 37008	34.58144042	288.0659612	8.3300 74099	3.058329 329	0.0001 15164	0.0055 84507	Up
LPCAT 2	127.69 64512	187.9787078	67.41419455	0.3586 26758	- 1.479444 96	0.0051 7978	0.0760 27708	Dow n
LPGAT 1	197.35 25601	296.7946231	97.9104971	0.3298 93096	- 1.599929 51	0.0034 90965	0.0580 40102	Dow n
LPHN3	576.20 3976	963.0681898	189.3397623	0.1966 00578	- 2.346660 54	0.0177 57953	0.1710 1194	Dow n
LPP	536.46 31693	938.8614027	134.064936	0.1427 95236	- 2.807980 24	0.0071 68429	0.0941 81568	Dow n
LPXN	114.93 47443	57.2970934	172.5723953	3.0118 87428	1.590667 849	0.0051 66798	0.0759 65342	Up
LRBA	2333.6 08305	1554.805683	3112.410927	2.0018 00586	1.001298 264	0.0382 34746	0.2634 51714	Up
LRP1	17772. 01509	26983.34438	8560.685796	0.3172 58146	- 1.656270 89	0.0005 3169	0.0161 53229	Dow n
LRP1B	10.136 86955	20.27373911	0	0	#NAME ?	0.0453 36527	0.2892 51645	Dow n
LRRC1	989.05 28739	585.0615592	1393.044189	2.3810 21564	1.251580 686	0.0449 32708	0.2881 41172	Up
LRRC2	183.49 49496	42.28366952	324.7062297	7.6792 34875	2.940962 574	1.13E- 07	2.72E- 05	Up
LRRC2 3	14.187 4787	5.473821582	22.90113581	4.1837 56352	2.064798 836	0.0474 27248	0.2970 93093	Up

LRRC2 6	158.99 44877	68.15928055	249.8296949	3.6653 80457	1.873962 954	0.0091 60166	0.1112 72879	Up
LRRC2 7	153.10 50513	87.80490247	218.4052002	2.4873 91865	1.314633 809	0.0077 51172	0.0997 0439	Up
LRRC3 2	478.06 87188	762.313865	193.8235727	0.2542 56916	- 1.975641 08	0.0004 41001	0.0143 8558	Down
LRRC4 6	7.5641 12715	14.56554742	0.562678006	0.0386 30749	- 4.694106 54	0.0297 08861	0.2301 06543	Down
LRRC4 C	72.306 60532	21.77787994	122.8353307	5.6403 71379	2.495790 157	6.21E- 05	0.0035 78722	Up
LRRC5 5	37.290 88006	63.5915247	10.99023543	0.1728 25474	- 2.532612 21	0.0029 69625	0.0520 76522	Down
LRRC5 6	22.036 82055	8.726063345	35.34757776	4.0508 04626	2.018208 504	0.0208 06738	0.1878 61371	Up
LRRC5 8	108.36 31905	160.9421778	55.78420309	0.3466 10216	- 1.528613 92	0.0072 50624	0.0949 84753	Down
LRRC6	39.121 11307	12.93482187	65.30740427	5.0489 60466	2.335986 381	0.0410 99004	0.2738 34966	Up
LRRC8 B	516.35 92288	332.5122237	700.2062339	2.1058 05995	1.074372 529	0.0363 59401	0.2568 07842	Up
LRRC8 E	203.92 86993	104.8110236	303.046375	2.8913 5975	1.531748 124	0.0101 90022	0.1199 07247	Up
LRRIQ1	11.433 80549	3.522003904	19.34560707	5.4927 84107	2.457537 588	0.0482 62488	0.2997 95806	Up
LRRN1	19.788 32458	35.96543109	3.611218057	0.1004 08029	- 3.316053 45	0.0456 17729	0.2901 61569	Down
LRRN3	61.860 62027	29.31092392	94.41031662	3.2209 94223	1.687506 073	0.0054 40789	0.0785 17114	Up
LRRN4 CL	1633.5 16372	2651.372844	615.6598996	0.2322 04196	- 2.106534 05	1.08E- 05	0.0009 01657	Down
LSR	587.56 1441	210.1118262	965.0110558	4.5928 45026	2.199388 104	1.47E- 05	0.0011 548	Up
LTBP1	6641.9 11029	11736.50126	1547.320797	0.1318 38336	- 2.923158 16	0.0011 59767	0.0280 34715	Down
LTBP2	3044.2 07795	5488.936744	599.4788461	0.1092 15842	- 3.194745 96	0.0003 89484	0.0133 57214	Down

LTF	13094 1.9479	3877.957036	258005.9388	66.531 40723	6.055963 644	1.40E- 05	0.0011 08732	Up
LUM	16234. 98082	28389.00034	4080.961303	0.1437 51497	- 2.798351 11	0.0002 39185	0.0095 6686	Down
LUZP2	196.22 81353	26.53573421	365.9205364	13.789 72722	3.785522 014	0.0080 29965	0.1022 24794	Up
LY6E	941.97 1754	294.7495561	1589.193952	5.3916 75471	2.430733 662	1.38E- 05	0.0010 9621	Up
LY9	146.47 5266	86.7396779	206.2108542	2.3773 53239	1.249356 282	0.0338 22973	0.2471 17301	Up
LYPD2	22.238 54634	1.549091861	42.92800082	27.711 72059	4.792424 384	0.0023 64412	0.0449 43755	Up
LYPD3	192.69 87126	97.7960164	287.6014089	2.9408 29488	1.556223 138	0.0210 07738	0.1884 01543	Up
LYPD6 B	29.545 27937	4.167000006	54.92355874	13.180 59963	3.720344 1	3.32E- 05	0.0022 16104	Up
LYVE1	451.30 03572	847.1512407	55.44947379	0.0654 54043	- 3.933373 88	1.02E- 06	0.0001 48734	Down
M1AP	43.746 19807	24.77655912	62.71583702	2.5312 56932	1.339853 954	0.0401 02987	0.2701 26271	Up
MAB21 L2	536.03 25753	57.09910726	1014.966043	17.775 5151	4.151819 462	0.0009 7967	0.0250 6596	Up
MACR OD1	497.41 92344	323.9493906	670.8890782	2.0709 68792	1.050305 814	0.0409 33903	0.2732 90749	Up
MAF	201.00 24843	281.2215476	120.7834211	0.4294 95613	- 1.219284 7	0.0140 60994	0.1476 40433	Down
MAGE D1	3659.2 82063	5071.300018	2247.264108	0.4431 33733	- 1.174185 94	0.0121 6837	0.1346 65785	Down
MAGE E2	65.683 19516	98.73892731	32.62746301	0.3304 41741	- 1.597532 16	0.0104 93482	0.1222 02665	Down
MAGE L2	102.42 38398	161.9287862	42.91889342	0.2650 47954	- 1.915674 69	0.0012 53299	0.0295 34737	Down
MAK	14.056 46624	2.923461523	25.18947096	8.6163 16909	3.107071 313	0.0332 30894	0.2443 7509	Up
MAL	106.23 30186	156.2647981	56.20123902	0.3596 53868	- 1.475318 98	0.0220 08074	0.1929 29521	Down
MAL2	1055.8	389.1354458	1722.511379	4.4265	2.146169	0.0001	0.0059	Up

	23413			08554	209	24385	35913	
MAMD C2	288.31 83371	486.4897616	90.14691261	0.1853 0074	- 2.432059 46	0.0013 7785	0.0313 03577	Dow n
MAML 3	494.43 60667	253.6292816	735.2428517	2.8988 87884	1.535499 538	0.0042 92184	0.0666 32283	Up
MAMS TR	78.506 89065	120.6751428	36.33863855	0.3011 27786	- 1.731552 26	0.0039 54033	0.0634 58009	Dow n
MAN1 A1	1905.6 73977	2776.955232	1034.392723	0.3724 91681	- 1.424719 89	0.0166 61638	0.1641 99265	Dow n
MAN2 A2	2642.1 83079	1729.53203	3554.834128	2.0553 734	1.039400 512	0.0258 7463	0.2110 09242	Up
MAOA	1036.7 85704	1853.106185	220.4652228	0.1189 70637	- 3.071322 55	9.16E- 10	5.59E- 07	Dow n
MAOB	1487.5 35303	2857.784495	117.2861106	0.0410 40922	- 4.606793 05	0.0153 64412	0.1565 86792	Dow n
MAP1A	2942.5 37652	5542.087536	342.9877691	0.0618 8783	- 4.014200 46	0.0006 74049	0.0190 88188	Dow n
MAP1B	5139.8 34323	9576.195105	703.4735409	0.0734 60653	- 3.766884 48	0.0065 64621	0.0891 03985	Dow n
MAP1L C3C	19.423 52107	34.05623235	4.790809797	0.1406 73512	- 2.829577 4	0.0080 49897	0.1023 34097	Dow n
MAP3K 7CL	75.655 69545	119.4889201	31.82247083	0.2663 2152	- 1.908759 08	0.0017 99563	0.0371 11403	Dow n
MAP3K 9	83.847 5332	47.01679425	120.6782721	2.5667 05665	1.359917 865	0.0398 72564	0.2696 40422	Up
MAP4K 1	192.58 61721	114.1115481	271.060796	2.3754 01968	1.248171 669	0.0199 77667	0.1835 18446	Up
MAP7	1058.5 39999	482.8748862	1634.205112	3.3843 24095	1.758867 733	0.0077 44077	0.0997 0439	Up
MAP7D 1	2020.7 90164	2733.547048	1308.03328	0.4785 11347	- 1.063374 96	0.0147 22286	0.1524 54255	Dow n
MAP7D 3	941.42 10177	1436.583332	446.258703	0.3106 38926	- 1.686689 47	0.0002 52453	0.0099 14059	Dow n

MAPK13	1685.278812	301.8642999	3068.693325	10.16580406	3.345652424	0.032578307	0.242405147	Up
MAPK15	351.938964	172.4844915	531.3934365	3.08081864	1.623313757	0.018178187	0.173225737	Up
MAPK6	1256.715267	1694.719106	818.7114283	0.48309565	-1.04961923	0.024834855	0.206449747	Down
MAPK8IP2	35.36707985	12.11510357	58.61905614	4.838510525	2.274563	0.006939585	0.092569328	Up
MAPRE1	643.1469278	865.6277683	420.6660873	0.485966489	-1.04107126	0.024833624	0.206449747	Down
MARCKSL1	1163.711286	651.7795561	1675.643016	2.570873849	1.36225882	0.001416471	0.031860004	Up
MARVELD1	3632.897042	5917.291973	1348.50211	0.227891765	-2.1335793	0.002913743	0.051329115	Down
MARVELD3	139.5688157	33.24309261	245.8945389	7.39686111	2.886913187	0.013825907	0.145866049	Up
MASTL	50.1555223	77.61795951	22.69308508	0.292368998	-1.77413775	0.013200204	0.142075464	Down
MATK	367.6808954	158.1974543	577.1643365	3.648379419	1.867255773	8.04E-05	0.004250564	Up
MATN4	46.73784863	83.13906422	10.33663304	0.124329437	-3.00776018	0.000129428	0.006144093	Down
MBNL1	4082.079058	5832.183847	2331.97427	0.399845809	-1.32248433	0.008402855	0.105038	Down
MCAM	6683.392539	11592.50664	1774.278437	0.153053907	-2.70788822	1.64E-07	3.56E-05	Down
MCF2	200.7804924	35.78322039	365.7777643	10.2220471	3.353612239	0.013628508	0.144784205	Up
MCM10	162.4894021	227.4663053	97.51249897	0.428689862	-1.2219938	0.018652614	0.176072474	Down
ME1	312.5300933	512.8205194	112.2396671	0.218867348	-2.19187135	0.000356551	0.012636184	Down
ME3	254.2911268	376.6475808	131.9346728	0.350286792	-1.5133915	0.022776612	0.196854819	Down

MECR	406.16 37143	233.6182834	578.7091452	2.4771 5691	1.308685 256	0.0307 31039	0.2349 96699	Up
MEDAG	1853.0 37192	3494.583641	211.4907418	0.0605 19582	- 4.046454 16	2.28E- 08	7.36E- 06	Down
MEF2D	685.34 15501	940.9641194	429.7189807	0.4566 79454	- 1.130746 21	0.0153 19363	0.1562 15935	Down
MEGF10	250.53 34359	83.19248964	417.8743822	5.0229 8205	2.328544 12	0.0221 32964	0.1937 19813	Up
MEGF6	692.44 87875	1189.544448	195.353127	0.1642 2516	- 2.606252 93	0.0055 95625	0.0795 80762	Down
MEOX2	965.66 74203	1403.253938	528.080903	0.3763 25973	- 1.409945 23	0.0010 52136	0.0263 2382	Down
MEP1A	5.9149 0134	11.82980268	0	0	#NAME ?	0.0387 38001	0.2653 98711	Down
MESDC1	255.44 31592	343.5723706	167.3139479	0.4869 83129	- 1.038056 3	0.0270 19574	0.2166 24931	Down
METTL9	3119.8 34243	1867.950974	4371.717512	2.3403 81291	1.226743 59	0.0323 78595	0.2417 53919	Up
MFAP2	1588.2 40778	2759.995135	416.4864214	0.1509 01143	- 2.728324 36	0.0174 80736	0.1690 80427	Down
MFAP5	5199.4 02082	9723.74868	675.0554835	0.0694 23378	- 3.848434 62	4.42E- 05	0.0027 5862	Down
MFHAS1	522.23 54051	828.0840498	216.3867604	0.2613 10142	- 1.936164 98	0.0131 91197	0.1420 63281	Down
MFSD6	1297.4 79986	696.1942797	1898.765692	2.7273 5032	1.447500 022	0.0017 21319	0.0365 56461	Up
MFSD6L	82.204 39411	42.65697059	121.7518176	2.8542 0685	1.513089 893	0.0118 48468	0.1326 47766	Up
MGAT5B	50.754 3599	26.95487773	74.55384207	2.7658 75728	1.467736 337	0.0291 55202	0.2274 78671	Up
MGC126945	336.04 2768	140.8700105	531.2155255	3.7709 6249	1.914932 8	0.0001 55888	0.0070 25544	Up
MGC138914	5.4667 09161	0.333045233	10.60037309	31.828 62873	4.992253 098	0.0199 8061	0.1835 18446	Up
MGC151921	6906.5 71812	306.2628863	13506.88074	44.102 24464	5.462780 18	0.0005 042	0.0156 81493	Up

MGME1	318.34 88598	209.5719893	427.1257303	2.0380 85966	1.027214 906	0.0357 24041	0.2539 1239	Up
MGP	10146. 67768	16344.82654	3948.528823	0.2415 76673	- 2.049446 94	0.0198 04898	0.1825 55215	Down
MGST1	3099.9 24897	2048.734763	4151.115031	2.0261 847	1.018765 691	0.0303 45354	0.2331 34516	Up
MIA	595.49 54172	211.9445476	979.0462868	4.6193 51136	2.207690 216	0.0046 6007	0.0708 19709	Up
MICAL2	1070.7 94423	1611.643957	529.9448895	0.3288 22559	- 1.604618 82	0.0109 49412	0.1255 15136	Down
MICALL2	1884.4 16304	1042.715882	2726.116726	2.6144 38673	1.386501 229	0.0247 66268	0.2063 44811	Up
MISP	72.476 89411	21.04124847	123.9125398	5.8890 29822	2.558029 979	9.11E- 05	0.0046 80247	Up
MITF	558.84 79477	872.5502003	245.1456952	0.2809 53113	- 1.831598 71	0.0028 22399	0.0504 09164	Down
MKS1	327.47 55106	195.3852985	459.5657227	2.3520 99805	1.233949 278	0.0280 04047	0.2213 16369	Up
MKX	377.10 72509	504.634412	249.5800897	0.4945 76041	- 1.015735 74	0.0345 08552	0.2493 98946	Down
MLKL	116.72 89284	157.536938	75.92091884	0.4819 24556	- 1.053120 78	0.0192 26466	0.1792 59742	Down
MLLT11	241.19 59322	360.9429006	121.4489637	0.3364 76943	- 1.571420 45	0.0017 77638	0.0368 45281	Down
MLPH	307.21 42607	82.36452149	532.064	6.4598 68768	2.691504 857	0.0025 99077	0.0473 21709	Up
MME	1271.9 3924	671.6807181	1872.197762	2.7873 32897	1.478885 317	0.0078 43617	0.1007 05347	Up
MMP12	128.87 55623	2.997407101	254.7537176	84.991 36386	6.409244 348	0.0007 26964	0.0202 99842	Up
MMP14	2860.1 79661	3963.792849	1756.566474	0.4431 52945	- 1.174123 39	0.0209 78894	0.1884 01543	Down
MMP16	220.80 89358	411.2862861	30.33158551	0.0737 48108	- 3.761250 15	0.0018 70741	0.0380 75	Down
MMP2	19092. 07873	32661.06564	5523.091831	0.1691 03234	- 2.564023	0.0012 64575	0.0295 48792	Down

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MMP23 B	773.50 44304	1296.106525	250.9023354	0.1935 81569	- 2.368986 49	0.0012 19443	0.0289 06077	Dow n
MMP27	123.10 41599	245.4081037	0.80021608	0.0032 60757	- 8.260577 56	0.0207 62201	0.1876 39952	Dow n
MMP28	457.15 42842	728.8947517	185.4138167	0.2543 76666	- 1.974961 76	0.0064 13042	0.0879 72275	Dow n
MMP9	232.11 96127	4.561626042	459.6775994	100.77 05575	6.654930 373	5.39E- 05	0.0031 99928	Up
MMRN 1	689.71 54139	1287.489457	91.94137107	0.0714 11358	- 3.807702 63	1.73E- 13	2.61E- 10	Dow n
MN1	472.28 9843	897.3260583	47.25362773	0.0526 60488	- 4.247135 31	0.0008 112	0.0217 95968	Dow n
MOB1A	757.97 96817	1043.388525	472.570838	0.4529 19336	- 1.142673 96	0.0176 20386	0.1700 66421	Dow n
MOK	99.451 61074	58.756913	140.1463085	2.3851 8842	1.254103 238	0.0380 00033	0.2626 37007	Up
MORC4	329.79 7353	449.3180118	210.2766942	0.4679 90796	- 1.095447 94	0.0207 24321	0.1875 79538	Dow n
MPEG1	1266.2 49215	694.3645757	1838.133854	2.6472 17209	1.404476 575	0.0032 24528	0.0550 13076	Up
MPPE1	843.40 51396	551.3513959	1135.458883	2.0594 10553	1.042231 467	0.0219 29086	0.1924 95758	Up
MPPED 2	79.481 21752	33.98015428	124.9822808	3.6780 96331	1.878959 265	0.0101 7318	0.1197 87204	Up
MPZ	48.109 67855	96.21935711	0	0	#NAME ?	0.0475 42066	0.2974 13932	Dow n
MPZL2	61.002 67314	22.71713713	99.28820916	4.3706 30357	2.127841 368	0.0010 67366	0.0265 20948	Up
MPZL3	506.11 51958	313.4190386	698.8113529	2.2296 39131	1.156810 228	0.0274 98052	0.2189 47782	Up
MRAP2	35.317 41878	52.04615003	18.58868753	0.3571 57783	- 1.485366 54	0.0175 84064	0.1698 97656	Dow n
MRAS	708.32 44906	1118.316071	298.33291	0.2667 6976	- 1.906332 96	0.0148 65151	0.1536 69028	Dow n

MRC2	6967.5 88144	12247.39524	1687.781048	0.1378 07347	- 2.859275 29	0.0042 13796	0.0656 41338	Dow n
MRGPR F	880.42 1044	1562.70715	198.1349379	0.1267 89551	- 2.979492 24	0.0067 52439	0.0906 80552	Dow n
MRO	31.394 72528	52.03914126	10.7503093	0.2065 8122	- 2.275218 99	0.0146 7643	0.1520 66696	Dow n
MROH2 B	73.959 79707	1.330048437	146.5895457	110.21 36897	6.784159 623	0.0422 18174	0.2771 25457	Up
MRV11	2638.7 32671	4645.152465	632.3128768	0.1361 2317	- 2.877015 45	0.0186 36418	0.1760 11696	Dow n
MS4A8	186.00 04229	112.7122493	259.2885964	2.3004 47361	1.201914 445	0.0110 08728	0.1258 46925	Up
M- SAA3.2	5890.1 85656	441.4310698	11338.94024	25.686 77426	4.682953 823	9.00E- 19	5.41E- 15	Up
MSI1	17.873 35262	6.846058747	28.90064649	4.2215 01386	2.077756 188	0.0496 58242	0.3045 85187	Up
MSI2	1231.5 83861	733.5814274	1729.586294	2.3577 29122	1.237397 977	0.0361 41368	0.2556 68289	Up
MSN	7661.9 27944	11253.84599	4070.009901	0.3616 5502	- 1.467313 92	0.0012 43475	0.0293 98479	Dow n
MSRB3	2868.3 85247	4520.409742	1216.360752	0.2690 81968	- 1.893882 38	0.0381 37243	0.2629 59243	Dow n
MSX1	204.92 03079	355.3307704	54.50984533	0.1534 05924	- 2.704573 89	0.0091 52831	0.1112 58704	Dow n
MT1A	210.70 70545	25.62993616	395.7841728	15.442 26135	3.948812 13	0.0018 78634	0.0381 62925	Up
MT1E	96.109 84466	42.43025759	149.7894317	3.5302 50351	1.819770 497	0.0024 8481	0.0461 59446	Up
MTCL1	332.86 95664	536.6136302	129.1255026	0.2406 30307	- 2.055109 74	0.0062 0223	0.0859 30895	Dow n
MTHFD 1L	338.71 06815	460.1835105	217.2378526	0.4720 67876	- 1.082933 78	0.0345 75256	0.2496 50201	Dow n
MTMR 11	508.75 00756	679.5689047	337.9312466	0.4972 72969	- 1.007890 09	0.0291 25338	0.2274 30909	Dow n

MTMR7	71.502 97353	127.1349119	15.87103514	0.1248 36167	- 3.001892 12	0.0024 16046	0.0454 89269	Down
MTPN	835.54 78064	1184.416946	486.6786672	0.4109 01473	- 1.283135 59	0.0099 89229	0.1183 16285	Down
MTSS1	2469.1 82201	1618.151063	3320.213339	2.0518 5623	1.036929 647	0.0366 15412	0.2580 0993	Up
MUC16	1814.7 64481	20.82537902	3608.703583	173.28 3933	7.436994 083	0.0141 4759	0.1482 90752	Up
MUSTN1	1588.3 89942	2939.570107	237.209777	0.0806 95397	- 3.631369 81	0.0208 89133	0.1882 61267	Down
MXRA5	6501.5 1639	10963.94113	2039.091647	0.1859 8163	- 2.426767 96	0.0114 09222	0.1291 16037	Down
MXRA7	3924.9 78929	6916.083241	933.8746183	0.1350 29407	- 2.888654 46	0.0045 26518	0.0693 15676	Down
MXRA8	1863.4 23475	2745.180381	981.6665689	0.3575 96381	- 1.483595 96	0.0025 52983	0.0469 93118	Down
MYADM	6349.3 38285	9506.513725	3192.162845	0.3357 86908	- 1.574382 11	0.0003 89135	0.0133 57214	Down
MYB	427.37 27598	62.95077505	791.7947446	12.577 99835	3.652830 446	0.0054 48755	0.0785 59686	Up
MYBPC1	467.77 93782	14.74088089	920.8178754	62.466 95039	5.965021 195	0.0414 44948	0.2743 57952	Up
MYBPH	364.55 38818	93.6221887	635.4855749	6.7877 66701	2.762936 98	0.0008 24866	0.0219 78973	Up
MYCBPAP	109.87 56092	39.30651491	180.4447036	4.5907 07266	2.198716 439	0.0004 37225	0.0143 78031	Up
MYCL	68.735 97068	36.53582081	100.9361205	2.7626 61911	1.466059 019	0.0441 80029	0.2847 78169	Up
MYCT1	656.56 00945	908.0136729	405.1065161	0.4461 45833	- 1.164412 73	0.0196 7618	0.1821 4499	Down
MYH10	4081.1 88778	6213.716794	1948.660762	0.3136 06305	- 1.672973 53	0.0064 24403	0.0879 95293	Down
MYH14	778.60 69086	346.2858697	1210.927948	3.4969 0257	1.806077 6	0.0013 37978	0.0307 36638	Up
MYH7B	83.303	26.16861857	140.4378965	5.3666	2.424022	0.0012	0.0300	Up

	25755			53045	621	89826	22151	
MYL4	45.629 85332	70.73783035	20.52187629	0.2901 11758	- 1.785319 33	0.0212 7142	0.1893 01998	Dow n
MYL5	89.410 27642	38.3163394	140.5042134	3.6669 5294	1.874581 751	0.0032 94547	0.0555 94325	Up
MYL6	21269. 23364	31847.89652	10690.57076	0.3356 75882	- 1.574859 21	0.0233 76454	0.1994 73917	Dow n
MYL9	29804. 42705	54782.92354	4825.930549	0.0880 91877	- 3.504847 2	0.0140 73907	0.1476 90057	Dow n
MYLK	14071. 27635	25713.74894	2428.80376	0.0944 55451	- 3.404222 13	0.0145 33987	0.1511 98722	Dow n
MYO18 B	11.107 62011	21.84012155	0.375118671	0.0171 75668	-5.86349	0.0150 71849	0.1549 50462	Dow n
MYO3 A	297.20 77002	21.34533017	573.0700702	26.847 56177	4.746719 167	0.0007 47932	0.0206 71255	Up
MYO5B	653.91 80687	226.5296992	1081.306438	4.7733 53967	2.255003 323	1.20E- 05	0.0009 82075	Up
MYOC D	1241.5 12253	2305.277216	177.7472902	0.0771 04519	- 3.697040 78	0.0049 66397	0.0741 62945	Dow n
MYOZ1	64.345 78537	32.2599444	96.43162635	2.9892 06217	1.579762 428	0.0478 7625	0.2985 59455	Up
MYRF	177.75 15131	307.9266095	47.57641676	0.1545 05701	- 2.694268 02	6.11E- 06	0.0005 77382	Dow n
MYRFL	23.561 43026	8.90291804	38.21994247	4.2929 68025	2.101975 427	0.0331 61534	0.2440 64017	Up
NACC2	212.37 32071	311.5714128	113.1750014	0.3632 39363	- 1.461007 55	0.0189 13423	0.1776 05018	Dow n
NAPRT	2350.5 17334	1430.478716	3270.555951	2.2863 36674	1.193037 863	0.0210 6993	0.1885 20321	Up
NBEAL 1	235.68 13995	391.4350148	79.92778411	0.2041 91708	- 2.292003 82	0.0002 15462	0.0088 33462	Dow n
NCALD	493.16 14249	752.5926875	233.7301622	0.3105 66613	- 1.687025 35	0.0010 91774	0.0270 12915	Dow n
NCAM1	471.64 52118	938.4972258	4.793197851	0.0051 07312	- 7.613220	0.0022 56508	0.0435 34923	Dow n

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NCS1	444.82 83608	794.6167202	95.04000132	0.1196 04835	- 3.063652 39	0.0001 46814	0.0067 04744	Dow n
NDN	238.73 62871	322.84205	154.6305242	0.4789 66492	- 1.062003 36	0.0384 33082	0.2643 13518	Dow n
NDNF	548.63 15708	223.1886385	874.0745032	3.9163 03755	1.969492 667	0.0104 10374	0.1216 96857	Up
NDST3	25.652 60541	40.62869417	10.67651665	0.2627 82668	- 1.928057 97	0.0181 42909	0.1730 83126	Dow n
NDUFA 4L2	305.11 22782	499.9752952	110.2492611	0.2205 09418	- 2.181087 82	0.0001 07967	0.0053 50588	Dow n
NECAB 2	111.21 23842	153.9113827	68.51338574	0.4451 4827	- 1.167642 15	0.0414 3389	0.2743 57952	Dow n
NECAB 3	197.39 45006	291.2563964	103.5326048	0.3554 68948	- 1.492204 56	0.0103 18335	0.1209 14327	Dow n
NEDD4	691.38 6307	935.2808772	447.4917369	0.4784 57058	- 1.063538 65	0.0165 33313	0.1633 93505	Dow n
NEDD4 L	1479.4 4356	703.0476042	2255.839516	3.2086 5828	1.681970 152	0.0002 22437	0.0090 37243	Up
NEFM	259.97 22397	55.77441484	464.1700646	8.3222 75831	3.056978 105	0.0335 0762	0.2455 09326	Up
NEK6	3129.6 92087	2010.176193	4249.20798	2.1138 48525	1.079871 999	0.0125 99092	0.1379 09603	Up
NEURL 1	460.93 56003	69.07215544	852.7990452	12.346 49534	3.626029 673	0.0032 36541	0.0550 69611	Up
NEXN	1860.7 88033	3519.97421	201.601856	0.0572 73674	- 4.125984 03	0.0036 86011	0.0599 02665	Dow n
NFATC 4	1116.3 22294	1718.78103	513.8635575	0.2989 69763	- 1.741928 51	0.0005 54487	0.0165 98835	Dow n
NFE2L3	382.10 07243	140.1477897	624.0536589	4.4528 25552	2.154721 093	0.0041 11257	0.0649 00685	Up
NFIC	785.99 27298	1075.558113	496.427347	0.4615 53254	- 1.115430 98	0.0172 14923	0.1674 82917	Dow n
NHS	224.46	367.8926099	81.03559305	0.2202	-	0.0001	0.0063	Dow

	41015			69695	2.182657 07	35557	18647	n
NHSL1	948.86 40571	467.6009509	1430.127163	3.0584 35105	1.612793 665	0.0002 52139	0.0099 14059	Up
NHSL2	1415.9 97331	2390.954417	441.0402447	0.1844 62005	- 2.438604 41	0.0001 13902	0.0055 68226	Down
NID1	6051.5 68273	9835.816674	2267.319872	0.2305 16687	- 2.117056 91	0.0022 6613	0.0436 27237	Down
NID2	3342.7 52499	5285.543874	1399.961124	0.2648 66049	- 1.916665 17	3.87E- 05	0.0025 28054	Down
NIM1K	40.675 84374	19.44935661	61.90233086	3.1827 44401	1.670271 302	0.0376 08639	0.2623 50059	Up
NIPA1	63.356 52579	94.96952772	31.74352386	0.3342 49571	- 1.581002 39	0.0393 05284	0.2677 59823	Down
NIPAL4	100.51 20287	169.1326073	31.89145022	0.1885 58852	- 2.406913 22	0.0030 38485	0.0527 55762	Down
NKAIN 1	38.377 49603	67.96310186	8.791890196	0.1293 62698	- 2.950506 43	0.0100 24429	0.1184 99792	Down
NKAIN 3	99.867 67967	164.7101553	35.02520408	0.2126 47508	- 2.233464 15	0.0001 7619	0.0076 04902	Down
NKG7	389.78 56156	197.0662816	582.5049496	2.9558 83395	1.563589 359	0.0006 77356	0.0191 51771	Up
NKPD1	345.26 38048	143.4509868	547.0766228	3.8136 8323	1.931185 016	6.76E- 05	0.0038 37125	Up
NKX2-2	17.360 74047	34.72148094	0	0	#NAME ?	0.0008 42978	0.0223 62471	Down
NKX3-1	22.477 45215	1.572318722	43.38258557	27.591 47046	4.786150 44	1.10E- 05	0.0009 14247	Up
NLGN4 X	4.1334 41066	8.266882132	0	0	#NAME ?	0.0400 89687	0.2701 26271	Down
NLRP1	168.16 60195	93.83293274	242.4991063	2.5843 70959	1.369813 168	0.0089 39363	0.1098 35862	Up
NMB	215.01 82669	399.9825348	30.05399911	0.0751 38279	- 3.734308 13	4.04E- 11	3.47E- 08	Down
NME8	36.796 46744	17.16083998	56.4320949	3.2884 22651	1.717395 736	0.0334 44636	0.2453 03316	Up

NMT2	185.62 79595	264.809136	106.446783	0.4019 75493	- 1.314820 55	0.0197 20873	0.1822 46329	Down
NOL3	337.53 93416	499.3434915	175.7351917	0.3519 32477	- 1.506629 44	0.0319 28679	0.2396 91518	Down
NOSTR IN	816.92 89396	298.7307163	1335.127163	4.4693 33383	2.160059 664	0.0232 91998	0.1991 30023	Up
NOV	9564.4 13372	18610.30017	518.5265752	0.0278 62343	- 5.165539 58	0.0083 83119	0.1049 01752	Down
NOVA1	43.816 92574	76.25614175	11.37770972	0.1492 03847	- 2.744643 36	0.0009 84146	0.0250 74884	Down
NOVA2	70.567 72768	103.0759358	38.05951958	0.3692 37682	- 1.437378 3	0.0257 69212	0.2108 16694	Down
NOX4	165.03 47288	297.7051784	32.36427924	0.1087 12517	- 3.201410 04	3.71E- 06	0.0004 0099	Down
NOXA1	642.65 58734	237.0107592	1048.300988	4.4230 10124	2.145028 544	7.71E- 06	0.0006 95823	Up
NPAS3	145.21 53283	60.212237	230.2184197	3.8234 49038	1.934874 645	0.0004 63244	0.0147 82042	Up
NPAS4	19.071 47499	37.95539064	0.187559335	0.0049 41573	- 7.660813 92	0.0054 902	0.0789 14511	Down
NPPB	12.018 63924	22.811965	1.225313489	0.0537 13632	- 4.218567 92	0.0344 86558	0.2493 4421	Down
NPPC	11.080 03851	20.56203291	1.598044106	0.0777 18196	- 3.685603 77	0.0435 68487	0.2824 58939	Down
NPR1	974.08 15515	1368.504577	579.658526	0.4235 70762	- 1.239325 09	0.0025 63539	0.0471 39324	Down
NPR3	147.48 83088	286.2232849	8.753332607	0.0305 82182	- 5.031164 84	0.0046 10058	0.0701 77922	Down
NPTN	1793.8 39259	2451.546973	1136.131545	0.4634 34541	- 1.109562 52	0.0316 29461	0.2383 3076	Down
NPY1R	1164.0 9154	2183.469623	144.713456	0.0662 76835	- 3.915351	0.0081 8193	0.1028 52845	Down

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NPY5R	120.89 89943	228.2990488	13.49893977	0.0591 28322	- 4.080006 84	0.0185 6158	0.1759 0312	Dow n
NR2F1	417.38 4396	604.5743273	230.1944648	0.3807 54614	- 1.393066 57	0.0040 92025	0.0648 47586	Dow n
NR4A1	3228.0 49195	6237.306198	218.7921925	0.0350 77994	- 4.833289 92	0.0348 88166	0.2511 25253	Dow n
NR6A1	146.53 33781	80.73358387	212.3331723	2.6300 47647	1.395088 936	0.0122 31716	0.1352 00935	Up
NRG1	200.49 15537	73.45494435	327.5281631	4.4588 98799	2.156687 456	6.83E- 05	0.0038 62836	Up
NRIP3	101.35 05771	183.8149452	18.88620906	0.1027 45775	- 3.282849 02	0.0059 94556	0.0838 91227	Dow n
NRP2	2775.1 15228	3856.046181	1694.184275	0.4393 5788	- 1.186531 53	0.0152 57211	0.1559 34744	Dow n
NRTN	37.439 19939	10.53278318	64.34561561	6.1090 80053	2.610955 145	0.0019 6137	0.0394 87898	Up
NRXN1	121.16 03996	234.5675976	7.753201575	0.0330 53165	- 4.919067 75	0.0485 40967	0.3008 00584	Dow n
NSMF	1629.8 12609	999.3783694	2260.246848	2.2616 52761	1.177377 445	0.0147 47658	0.1526 29376	Up
NSUN7	106.16 69884	25.9561537	186.377823	7.1804 86955	2.844081 686	3.68E- 06	0.0003 99844	Up
NTF4	83.147 50175	29.79224097	136.5027625	4.5818 22585	2.195921 596	0.0028 73406	0.0510 13374	Up
NTNG2	245.59 2286	447.2741652	43.91040671	0.0981 73358	- 3.348524 63	0.0162 59777	0.1614 25488	Dow n
NUAK1	179.06 67799	258.9530657	99.1804941	0.3830 05677	- 1.384562 32	0.0091 48185	0.1112 58704	Dow n
NUGG C	148.77 60474	20.54244124	277.0096535	13.484 74849	3.753256 709	7.75E- 05	0.0041 45649	Up
NUMB L	538.07 13458	740.5786233	335.5640683	0.4531 10659	- 1.142064 66	0.0350 46296	0.2516 41996	Dow n
NUP210	426.52 43263	237.3610081	615.6876446	2.5938 87048	1.375115 658	0.0032 42083	0.0550 69611	Up

NUP62 CL	137.56 2286	77.6409743	197.4835977	2.5435 4868	1.346842 706	0.0169 29072	0.1655 19526	Up
NWD1	8.8756 63965	2.038327632	15.7130003	7.7087 70684	2.946500 812	0.0394 5951	0.2685 06265	Up
NXPE2	115.82 4819	3.260771751	228.3888663	70.041 35332	6.130135 054	0.0372 97444	0.2616 81546	Up
NXPH2	13.161 23663	4.495780246	21.82669301	4.8549 28803	2.279450 139	0.0452 39544	0.2892 11746	Up
NXPH4	27.075 21033	47.38738255	6.763038106	0.1427 18119	- 2.808759 59	0.0032 91835	0.0555 94325	Down
OAF	944.31 06437	1560.134525	328.4867628	0.2105 50281	- 2.247763 29	8.04E- 06	0.0007 21909	Down
OCLN	975.07 56212	518.4996581	1431.651584	2.7611 42774	1.465265 489	0.0023 0618	0.0440 22406	Up
ODF3B	9.2395 89107	2.571454423	15.90772379	6.1862 74838	2.629070 929	0.0424 21547	0.2780 3219	Up
OGN	14339. 16953	27554.46033	1123.878736	0.0407 87543	- 4.615727 59	0.0061 51769	0.0853 62892	Down
OLFML 1	1276.6 04615	2053.187114	500.0221155	0.2435 34606	- 2.037801 3	0.0028 4626	0.0506 84774	Down
OLFML 2B	1373.9 32243	2572.947726	174.9167608	0.0679 83022	- 3.878681 7	0.0006 89498	0.0194 03829	Down
OMD	139.64 20235	270.4397901	8.844256988	0.0327 03239	- 4.934422 68	0.0100 57301	0.1188 10517	Down
OPN1L W	35.687 70925	71.37541849	0	0	#NAME ?	0.0119 52501	0.1331 56085	Down
OPTC	31.274 368	52.59293221	9.955803798	0.1892 99272	- 2.401259 23	0.0077 34712	0.0996 6176	Down
OR4D9	6.2141 7253	12.42834506	0	0	#NAME ?	0.0124 12162	0.1366 69171	Down
OSBPL 3	444.15 37063	262.2489678	626.0584447	2.3872 67526	1.255360 249	0.0047 04539	0.0714 14461	Up
OSR2	159.75 64423	300.7128238	18.80006079	0.0625 18321	- 3.999577 16	7.66E- 07	0.0001 25614	Down
OSTN	81.727 75438	162.7519276	0.703581125	0.0043 23028	- 7.853742	3.79E- 08	1.09E- 05	Down

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OVOL2	231.73 62805	63.24688849	400.2256726	6.3279 89916	2.661747 301	7.35E- 05	0.0040 11515	Up
OXTR	175.29 38811	92.22541551	258.3623467	2.8014 2242	1.486159 541	0.0110 32165	0.1259 55204	Up
P2RX3	130.06 60322	46.56467134	213.5673931	4.5864 68388	2.197383 696	0.0136 04164	0.1446 96651	Up
P2RX6	16.301 70088	29.68911978	2.914281975	0.0981 59932	- 3.348721 94	0.0150 07544	0.1546 09417	Down
P2RY1	30.843 66609	47.73044799	13.9568842	0.2924 10501	- 1.773932 97	0.0352 92094	0.2526 10252	Down
P2RY10	44.694 41242	20.81923068	68.56959417	3.2935 70029	1.719652 225	0.0187 73292	0.1766 5697	Up
P2RY2	123.40 62921	38.48464557	208.3279387	5.4132 74193	2.436501 465	2.93E- 05	0.0020 27645	Up
P2RY6	91.044 39452	39.61760536	142.4711837	3.5961 58384	1.846456 562	0.0031 64955	0.0543 73923	Up
P3H1	1804.4 51921	2718.582295	890.3215459	0.3274 94793	- 1.610456 13	0.0010 9558	0.0270 35797	Down
P3H4	795.08 79529	1440.317495	149.8584111	0.1040 45401	- 3.264714 9	8.88E- 06	0.0007 74154	Down
P4HA1	1617.7 38087	2427.851187	807.6249876	0.3326 5012	- 1.587922 54	0.0003 11834	0.0115 24399	Down
P4HA2	2939.1 31464	4593.190961	1285.071967	0.2797 77605	- 1.837647 61	7.30E- 05	0.0040 02829	Down
P4HA3	427.34 62217	807.0774691	47.61497435	0.0589 96783	- 4.083219 9	0.0046 07591	0.0701 77922	Down
PABPC 1L2A	71.166 40426	32.30000063	110.0328079	3.4065 88413	1.768327 65	0.0025 94351	0.0473 21709	Up
PABPC 4L	126.30 14138	179.5451661	73.05766152	0.4069 04085	- 1.297239 33	0.0402 28258	0.2703 87671	Down
PABPC 5	19.192 19144	36.17700454	2.207378329	0.0610 16061	- 4.034667 13	0.0007 82178	0.0212 0436	Down
PACSIN 1	42.000 06258	18.21965459	65.78047056	3.6104 12604	1.852163 72	0.0095 31854	0.1145 78149	Up

PADI2	361.90 90618	139.7664879	584.0516356	4.1787 67345	2.063077 438	0.0006 12722	0.0177 83061	Up
PAK3	14.666 85744	25.43498001	3.898734869	0.1532 82403	- 2.705736 01	0.0295 36168	0.2293 59855	Down
PAK4	1409.0 8234	765.444152	2052.720529	2.6817 37816	1.423168 197	0.0017 55674	0.0367 06729	Up
PAK6	255.39 45989	121.3773185	389.4118792	3.2082 75516	1.681798 041	0.0016 62747	0.0356 92935	Up
PALD1	265.91 76387	421.009529	110.8257483	0.2632 381	- 1.925559 78	0.0001 41284	0.0064 85021	Down
PALLD	5189.5 75653	8127.283058	2251.868249	0.2770 75159	- 1.851650 72	0.0122 84474	0.1355 34935	Down
PALM2	100.01 54399	168.2698088	31.76107094	0.1887 50859	- 2.405444 89	0.0129 6625	0.1408 36916	Down
PALM3	222.90 24994	88.24108743	357.5639113	4.0521 24942	2.018678 658	0.0105 22353	0.1223 80868	Up
PAMR1	132.37 24016	232.4234795	32.32132374	0.1390 62214	- 2.846197 63	0.0447 64615	0.2874 72012	Down
PANX2	38.823 12801	7.558602937	70.08765308	9.2725 67122	3.212968 806	6.58E- 05	0.0037 66169	Up
PAPLN	3198.0 11039	1257.154605	5138.867474	4.0876 97292	2.031288 364	0.0057 70523	0.0816 21532	Up
PAPPA	144.10 67248	276.8923637	11.32108594	0.0408 86234	- 4.612241 01	2.17E- 06	0.0002 61423	Down
PAPPA2	400.20 02832	686.2457473	114.1548191	0.1663 46851	- 2.587733 54	3.61E- 06	0.0003 94987	Down
PAQR7	410.92 04989	726.3186153	95.52238254	0.1315 15812	- 2.926691 83	0.0118 00175	0.1323 76681	Down
PARD6 B	61.528 23428	26.81019155	96.246277	3.5899 13813	1.843949 208	0.0058 22743	0.0821 88159	Up
PARP3	654.74 64862	930.8586426	378.6343297	0.4067 5814	- 1.297756 88	0.0232 74745	0.1991 30023	Down
PARVA	1357.7 98083	1972.420942	743.1752252	0.3767 83277	- 1.408193 16	0.0050 44643	0.0749 59079	Down

PARVB	327.52 34498	511.3652203	143.6816792	0.2809 76636	- 1.831477 93	0.0001 26438	0.0060 1798	Dow n
PATZ1	1095.6 69917	532.8307534	1658.509081	3.1126 37681	1.638137 653	0.0004 03568	0.0136 85629	Up
PAX1	21.629 50956	4.807731115	38.45128801	7.9978 03348	2.999603 808	0.0019 64199	0.0395 0077	Up
PBK	101.80 85096	159.6617881	43.95523114	0.2753 02135	- 1.860912 3	0.0037 29691	0.0603 40715	Dow n
PBX4	53.286 88323	29.40786575	77.16590071	2.6239 88472	1.391761 382	0.0216 48042	0.1913 32207	Up
PCDH1 0	7.5998 21105	13.59921005	1.600432159	0.1176 85671	- 3.086989 42	0.0456 57412	0.2903 11615	Dow n
PCDH1 7	165.51 02028	296.3836474	34.63675817	0.1168 64606	- 3.097090 04	2.85E- 08	8.71E- 06	Dow n
PCDH1 8	869.49 61181	1384.807078	354.185158	0.2557 64982	- 1.967109 34	0.0214 97781	0.1904 70764	Dow n
PCDH7	1047.0 44305	1552.961809	541.126801	0.3484 48235	- 1.520983 75	0.0025 98738	0.0473 21709	Dow n
PCDHB 16	48.483 81609	76.05776249	20.90986969	0.2749 20915	- 1.862911 43	0.0127 38727	0.1390 16268	Dow n
PCDHG A2	338.01 45411	141.0406487	534.9884335	3.7931 50686	1.923396 685	0.0406 39546	0.2720 87459	Up
PCDHG C3	1056.6 68955	1623.04258	490.2953291	0.3020 84083	- 1.726977 93	0.0010 71253	0.0265 51613	Dow n
PCGF5	268.38 69133	367.9317191	168.8421076	0.4588 95221	- 1.123763 31	0.0120 95601	0.1340 249	Dow n
PCK1	59.533 36434	106.9797273	12.08700142	0.1129 84037	- 3.145809 15	0.0439 74189	0.2839 12098	Dow n
PCLO	31.325 63039	5.117549487	57.5337113	11.242 43379	3.490882 483	0.0011 48977	0.0278 20657	Up
PCOLC E	10489. 68124	19210.39943	1768.963046	0.0920 83616	- 3.440911 7	0.0188 49469	0.1771 88934	Dow n
PCOLC	1148.7	2142.368619	155.0717074	0.0723	-	4.59E-	1.03E-	Dow

E2	20163			83299	3.788199 34	14	10	n
PCP4	31.520 43311	0.952681978	62.08818423	65.171 99409	6.026180 233	0.0329 9216	0.2431 1502	Up
PCP4L1	186.18 13605	345.6685554	26.69416548	0.0772 24743	- 3.694793 02	0.0126 88664	0.1386 37677	Down
PCSK6	709.06 94229	1143.565261	274.5735845	0.2401 03118	- 2.058273 96	0.0008 6702	0.0227 99092	Down
PDCD4	8015.7 88531	5095.432864	10936.1442	2.1462 64016	1.101827 555	0.0458 81903	0.2909 12993	Up
PDCL2	3.5645 61841	0	7.129123681	Inf	Inf	0.0379 89617	0.2626 37007	Up
PDDC1	1477.7 96672	982.8115687	1972.781776	2.0072 83836	1.005244 633	0.0205 71899	0.1865 74402	Up
PDE10 A	247.28 91715	419.4556971	75.122646	0.1790 95543	- 2.481198 66	9.99E- 05	0.0049 78884	Down
PDE1A	301.51 3942	530.2930486	72.73483534	0.1371 597	- 2.866071 44	4.35E- 08	1.21E- 05	Down
PDE1B	175.67 93642	279.7658618	71.59286672	0.2559 02798	- 1.966332 18	0.0006 38715	0.0183 31103	Down
PDE1C	215.69 03747	298.1845935	133.1961559	0.4466 90268	- 1.162653 27	0.0384 27398	0.2643 13518	Down
PDE4B	763.58 89732	1146.013657	381.1642892	0.3326 00128	- 1.588139 37	0.0288 20947	0.2261 42262	Down
PDE5A	130.06 7235	237.1038895	23.03058063	0.0971 32867	- 3.363896 64	0.0048 55078	0.0728 62521	Down
PDE7A	625.09 32569	408.5764332	841.6100807	2.0598 59582	1.042545 994	0.0295 98449	0.2295 24443	Up
PDE7B	553.08 93156	784.4692426	321.7093887	0.4100 98155	- 1.285958 84	0.0054 40709	0.0785 17114	Down
PDE8A	468.26 88468	696.5524458	239.9852477	0.3445 32919	- 1.537286 26	0.0042 69128	0.0663 97921	Down
PDGFD	452.01 12644	811.5345361	92.48799274	0.1139 66798	- 3.133314	2.09E- 05	0.0015 49827	Down

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PDGFR A	4604.2 86762	8012.221401	1196.352123	0.1493 15909	- 2.743560 21	0.0168 59299	0.1649 26736	Dow n
PDGFR B	5203.5 90537	7200.10944	3207.071633	0.4454 19845	- 1.166762 26	0.0102 48576	0.1204 39133	Dow n
PDGFR L	1223.8 46079	2195.180253	252.5119044	0.1150 30146	- 3.119916 1	0.0104 29523	0.1216 96857	Dow n
PDK3	555.94 29531	773.2355928	338.6503134	0.4379 65242	- 1.191111 72	0.0388 11655	0.2654 99977	Dow n
PDLIM 7	6019.8 80121	9745.96947	2293.790772	0.2353 57886	- 2.087071 9	0.0023 81695	0.0450 91696	Dow n
PDPN	159.65 97645	257.9885682	61.3309608	0.2377 27436	- 2.072619 68	0.0001 67373	0.0073 4609	Dow n
PDS5B	835.08 67399	1144.887596	525.2858838	0.4588 10005	- 1.124031 24	0.0325 74812	0.2424 05147	Dow n
PDZD7	71.121 78355	116.1930364	26.05053066	0.2242 00447	- 2.157138 94	0.0217 66781	0.1914 37624	Dow n
PDZK1	250.55 54158	43.2930065	457.8178251	10.574 86791	3.402567 738	0.0115 41942	0.1300 46908	Up
PEA15	5798.3 71985	8451.205319	3145.538651	0.3722 00004	- 1.425850 03	0.0022 82167	0.0438 49669	Dow n
PEAK1	2097.2 47318	3299.958388	894.5362466	0.2710 75008	- 1.883235 99	0.0001 87119	0.0079 23559	Dow n
PECAM 1	7136.7 56468	10103.84314	4169.6698	0.4126 81565	- 1.276899 1	0.0017 6616	0.0367 89544	Dow n
PEG10	200.81 20037	299.4548825	102.169125	0.3411 83701	- 1.551379 37	0.0078 11976	0.1003 70538	Dow n
PERP	1157.0 0847	345.7054908	1968.311448	5.6936 07712	2.509343 095	1.26E- 06	0.0001 71075	Up
PFKFB 2	452.13 10437	284.4475079	619.8145795	2.1790 12163	1.123674 25	0.0404 24471	0.2710 84396	Up
PFKP	1821.3	2682.400976	960.2833805	0.3579	-	0.0019	0.0399	Dow

	42178			93972	1.4819928	96374	69577	n
PFN2	1095.838692	1600.214782	591.4626017	0.369614509	-1.4359067	0.024799391	0.20634512	Down
PGAM1	3799.897438	5287.064604	2312.730273	0.437431816	-1.19286994	0.007081485	0.093516036	Down
PGK1	4241.068254	6288.378909	2193.757598	0.348859003	-1.51928403	0.001606279	0.034868435	Down
PGLYR P1	150.917414	85.35187738	216.4829506	2.536358393	1.342758616	0.029479628	0.229019384	Up
PGM2	700.8733864	940.6835419	461.063231	0.490136385	-1.02874485	0.029454114	0.229018434	Down
PGM3	568.5953443	790.5148015	346.6758872	0.438544461	-1.18920498	0.006842385	0.09170118	Down
PHACT R2	181.0677097	260.4191217	101.7162977	0.390586901	-1.35628453	0.005226269	0.076461202	Down
PHLDB 2	2968.712009	4271.642686	1665.781332	0.389962704	-1.35859194	0.01296802	0.140836916	Down
PHTF2	363.1719333	558.5936002	167.7502663	0.30030825	-1.73548399	0.014427009	0.150694161	Down
PHYHIP	139.8064349	57.9113866	221.7014831	3.828288289	1.936699476	0.000704881	0.019713707	Up
PI16	19852.12262	36040.67976	3663.565475	0.101650843	-3.29830592	4.86E-06	0.000494984	Down
PIANP	14.54842786	1.306821576	27.79003415	21.26536221	4.410433523	0.000437582	0.014378031	Up
PID1	556.1155106	803.0589323	309.172089	0.384993027	-1.37709578	0.019379881	0.180284617	Down
PIEZO2	557.541996	1013.937915	101.1460774	0.099755691	-3.32545704	0.010434126	0.121696857	Down
PIGL	408.0922161	268.4130987	547.7713335	2.040777206	1.02911869	0.027616887	0.219463003	Up
PIK3AP	1256.4	541.2480274	1971.62915	3.6427	1.865026	4.48E-	0.0027	Up

1	38588			46116	449	05	8523	
PIK3C2 G	94.805 45526	29.53314131	160.0777692	5.4202 75734	2.438366 245	0.0005 96084	0.0174 84173	Up
PIK3IP1	751.48 46522	474.9715369	1027.997768	2.1643 35518	1.113924 165	0.0080 14149	0.1020 95508	Up
PIP5K1 B	615.10 07244	270.6959546	959.5054943	3.5445 87491	1.825617 74	0.0032 41334	0.0550 69611	Up
PITPNA	1557.3 66754	2125.975964	988.7575427	0.4650 84065	- 1.104436 59	0.0222 83913	0.1945 57822	Down
PITPNC 1	966.84 27654	1442.547283	491.1382483	0.3404 65962	- 1.554417 52	0.0021 59593	0.0420 24707	Down
PITX2	6.3437 22358	12.68744472	0	0	#NAME ?	0.0155 14847	0.1573 22315	Down
PKD1	5762.3 15884	9065.012838	2459.61893	0.2713 30992	- 1.881874 25	0.0001 08997	0.0053 86841	Down
PKD2	1840.1 50238	2669.96465	1010.335825	0.3784 07941	- 1.401985 73	0.0195 13974	0.1809 83327	Down
PKHD1 L1	282.78 61387	530.5546529	35.01762457	0.0660 01918	- 3.921348 25	0.0135 98994	0.1446 96651	Down
PKIG	621.15 71342	886.0773644	356.2369039	0.4020 38149	- 1.314595 69	0.0012 72154	0.0296 87441	Down
PKM	10290. 30202	14298.02165	6282.582386	0.4394 02215	- 1.186385 95	0.0103 34926	0.1209 81006	Down
PKNOX 2	454.34 73249	867.9526757	40.74197406	0.0469 40317	- 4.413028 59	0.0158 20571	0.1587 24846	Down
PKP1	525.54 20649	237.8118097	813.27232	3.4198 14688	1.773918 151	0.0107 8561	0.1243 20524	Up
PKP2	312.91 67535	103.5335772	522.2999298	5.0447 3953	2.334779 782	0.0004 91606	0.0153 69294	Up
PKP3	459.06 41892	163.3950111	754.7333672	4.6190 72283	2.207603 123	1.12E- 05	0.0009 24029	Up
PLA2G 2D1	44.491 04553	24.26838002	64.71371104	2.6665 85532	1.414993 604	0.0309 63433	0.2360 01279	Up
PLA2R 1	334.91 34107	471.7699704	198.0568511	0.4198 16571	- 1.252168 98	0.0064 49098	0.0880 81407	Down

PLAC9	845.50 35986	1578.311151	112.6960465	0.0714 02934	- 3.807872 84	5.73E- 07	9.66E- 05	Dow n
PLAU	1272.8 20621	1976.685723	568.9555186	0.2878 33069	- 1.796695 74	0.0001 565	0.0070 25544	Dow n
PLAUR	436.81 71256	642.4656421	231.1686091	0.3598 14742	- 1.474673 8	0.0107 10905	0.1237 758	Dow n
PLB1	132.44 92822	62.42998203	202.4685824	3.2431 30558	1.697387 103	0.0468 12162	0.2946 42218	Up
PLCB4	1001.3 17117	1585.348642	417.2855916	0.2632 13769	- 1.925693 13	0.0155 37586	0.1573 73679	Dow n
PLCD1	1018.1 6526	1483.800942	552.5295784	0.3723 74463	- 1.425173 96	0.0056 43418	0.0800 95682	Dow n
PLCD4	178.36 32836	255.3638879	101.3626792	0.3969 34273	- 1.333027 96	0.0388 1004	0.2654 99977	Dow n
PLCE1	354.84 83604	511.9538181	197.7429027	0.3862 51446	- 1.372387 76	0.0157 8883	0.1585 828	Dow n
PLCG2	757.52 28228	384.5550372	1130.490608	2.9397 36836	1.555687 012	0.0004 79176	0.0150 615	Up
PLCH2	442.60 91276	186.158602	699.0596531	3.7551 83191	1.908883 289	0.0005 93084	0.0174 52929	Up
PLCL1	220.96 76386	303.5528873	138.38239	0.4558 75716	- 1.133287 53	0.0096 66511	0.1155 56123	Dow n
PLCXD 1	97.433 86715	27.85042496	167.0173093	5.9969 39348	2.584226 382	0.0347 31276	0.2504 06673	Up
PLCXD 3	7.0589 58936	13.50526113	0.612656744	0.0453 64302	- 4.462298 73	0.0129 95743	0.1409 68252	Dow n
PLD1	1041.7 17145	1690.549856	392.8844336	0.2324 00383	- 2.105315 65	0.0174 38041	0.1688 48534	Dow n
PLD4	333.79 09381	217.8322555	449.7496208	2.0646 6035	1.045904 468	0.0341 17296	0.2479 75419	Up
PLEK2	66.145 64987	30.49625517	101.7950446	3.3379 52283	1.738963 331	0.0050 17539	0.0746 17795	Up
PLEKH A3	422.90 76867	574.9573624	270.858011	0.4710 92343	- 1.085918	0.0328 94402	0.2427 02942	Dow n

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PLEKH G6	102.93 47035	34.27228287	171.5971241	5.0068 77562	2.323911 176	0.0028 92475	0.0511 23429	Up
PLEKH N1	298.71 94117	117.51609	479.9227333	4.0838 89561	2.029943 853	0.0258 32732	0.2110 09242	Up
PLEKH O2	1006.4 96964	1390.541643	622.4522839	0.4476 32969	- 1.159611 8	0.0438 91987	0.2835 84364	Down
PLEKH S1	189.84 94372	77.55930354	302.1395708	3.8955 94171	1.961843 39	0.0006 10417	0.0177 83061	Up
PLIN4	1933.7 78025	3650.560475	216.9955755	0.0594 41715	- 4.072380 45	0.0004 04371	0.0136 85629	Down
PLK5	113.79 42281	45.17024879	182.4182074	4.0384 59214	2.013804 969	0.0005 3824	0.0162 63518	Up
PLLP	299.41 89803	55.83622625	543.0017344	9.7249 00317	3.281683 462	1.23E- 09	6.93E- 07	Up
PLN	959.15 92864	1789.782922	128.535651	0.0718 16336	- 3.799544 15	0.0266 45253	0.2152 50209	Down
PLOD1	2956.4 87098	4600.232345	1312.741851	0.2853 64249	- 1.809123 49	0.0002 52494	0.0099 14059	Down
PLOD2	2117.3 16043	3857.746946	376.8851405	0.0976 95662	- 3.355561 69	2.58E- 05	0.0018 18981	Down
PLS3	3095.8 98862	4267.882194	1923.91553	0.4507 89277	- 1.149474 9	0.0176 5683	0.1703 27035	Down
PLSCR 4	1227.1 46788	2112.40227	341.891307	0.1618 49526	- 2.627274 95	0.0222 38678	0.1942 68049	Down
PLXDC 2	1874.8 8809	3030.561969	719.2142121	0.2373 20411	- 2.075091 91	3.18E- 05	0.0021 57031	Down
PLXNA 4	605.51 09179	1088.527917	122.4939192	0.1125 3172	- 3.151596 37	0.0081 52277	0.1026 96151	Down
PLXNB 1	1293.8 63168	752.3553633	1835.370972	2.4395 00084	1.286585 533	0.0242 48842	0.2043 08668	Up
PMEPA 1	3216.4 49329	4930.669171	1502.229487	0.3046 70509	- 1.714678 23	0.0031 26595	0.0537 66113	Down
PMP22	2866.7	4512.668545	1220.861365	0.2705	-	0.0010	0.0260	Down

	64955			4089	1.886081 43	36067	3009	n
PNCK	181.75 4068	339.6216128	23.88652317	0.0703 32753	- 3.829659 49	0.0215 68014	0.1907 1834	Dow n
PNMT	72.084 36356	5.282270013	138.8864571	26.292 9492	4.716604 069	0.0062 14932	0.0860 40794	Up
PODN	2678.7 1093	4323.115781	1034.306078	0.2392 50145	- 2.063408 29	0.0052 46985	0.0765 80676	Dow n
PODXL 2	70.152 04472	104.1492352	36.15485423	0.3471 44693	- 1.526390 98	0.0263 69518	0.2135 96648	Dow n
POF1B	17.107 81016	1.951817678	32.26380264	16.530 13137	4.047026 285	0.0004 48337	0.0145 19843	Up
POLH	365.05 38528	500.032199	230.0755067	0.4601 21382	- 1.119913 59	0.0265 3208	0.2145 28099	Dow n
POPDC 2	20.990 02929	35.48408303	6.49597554	0.1830 67307	- 2.449553 92	0.0054 02395	0.0781 50607	Dow n
PORCN	1291.6 76625	396.622308	2186.730943	5.5133 83636	2.462937 992	0.0255 79881	0.2098 38776	Up
POU2A F1	135.98 57154	56.10579486	215.8656359	3.8474 74872	1.943911 904	0.0446 84537	0.2870 59961	Up
PPAP2A	1933.5 28853	2716.581039	1150.476667	0.4235 01692	- 1.239560 36	0.0089 26492	0.1097 64816	Dow n
PPEF1	21.513 16904	35.31979271	7.706545358	0.2181 93391	- 2.196320 69	0.0315 66608	0.2381 50572	Dow n
PPFIA4	626.47 32842	962.1645571	290.7820114	0.3022 16507	- 1.726345 63	0.0425 58596	0.2783 93577	Dow n
PPIC	1469.5 89832	2371.424532	567.7551316	0.2394 15222	- 2.062413 21	0.0004 82847	0.0151 47958	Dow n
PPIL6	27.312 82457	10.85943092	43.76621822	4.0302 49702	2.010869 226	0.0161 97251	0.1612 48465	Up
PPIP5K 1	551.85 46412	310.8788984	792.8303841	2.5502 86907	1.350659 559	0.0027 05575	0.0487 57111	Up
PPM1E	32.869 98739	57.09469828	8.645276503	0.1514 19953	- 2.723372 77	0.0254 40752	0.2089 64746	Dow n

PPM1J	72.558 43487	29.21735566	115.8995141	3.9668 03684	1.987977 001	0.0030 08613	0.0524 8778	Up
PPOX	903.74 56933	581.6000248	1225.891362	2.1077 9111	1.075731 898	0.0221 01205	0.1935 35747	Up
PPP1R1 2A	1154.4 11997	1913.420993	395.4030017	0.2066 47154	- 2.274758 6	0.0155 21168	0.1573 22315	Down
PPP1R1 4D	246.28 08902	61.09565007	431.4661304	7.0621 41574	2.820105 743	3.76E- 07	6.65E- 05	Up
PPP1R1 A	48.474 52882	85.52562618	11.42343147	0.1335 67353	- 2.904360 68	0.0151 10648	0.1550 51755	Down
PPP1R2	557.21 87	818.2860596	296.1513403	0.3619 16639	- 1.466270 66	0.0013 06071	0.0302 18075	Down
PPP1R3 B	489.33 65992	671.5945353	307.0786631	0.4572 3818	- 1.128982 22	0.0294 41543	0.2290 18434	Down
PPP1R3 C	831.55 02845	1286.623165	376.4774044	0.2926 08912	- 1.772954 38	0.0117 7174	0.1322 23179	Down
PPP1R3 G	87.588 67807	148.4527317	26.72462444	0.1800 21103	- 2.473762 06	0.0001 80587	0.0077 1946	Down
PPP1R4 2	23.279 28712	39.60226621	6.956308016	0.1756 54292	- 2.509189 27	0.0092 49087	0.1119 76031	Down
PPP2R2 C	359.96 5501	698.330426	21.60057608	0.0309 31741	- 5.014768 14	0.0053 04049	0.0772 23363	Down
PPP4R4	37.423 3874	17.2188166	57.6279582	3.3468 01325	1.742782 911	0.0214 92053	0.1904 70764	Up
PPTC7	96.062 48302	151.816188	40.30877802	0.2655 10408	- 1.913159 68	0.0269 66696	0.2162 97126	Down
PQLC3	247.02 99511	342.8724898	151.1874123	0.4409 43548	- 1.181334 13	0.0187 33361	0.1764 65324	Down
PRAF2	785.47 94209	1124.174142	446.7847	0.3974 3371	- 1.331213 85	0.0045 70633	0.0697 54354	Down
PRC1	370.39 99124	508.3941029	232.4057219	0.4571 36935	- 1.129301 71	0.0231 85207	0.1987 82291	Down

PRDM6	63.905 90152	107.8035605	20.00824255	0.1855 99088	- 2.429738 47	0.0252 3014	0.2081 31016	Dow n
PRDM8	202.95 66661	354.1982544	51.71507776	0.1460 06021	- 2.775900 23	0.0006 97312	0.0195 35381	Dow n
PRELP	5246.4 69697	9135.745536	1357.193858	0.1485 58632	- 2.750895 66	0.0014 76423	0.0327 99499	Dow n
PREX2	260.08 13103	356.8154896	163.347131	0.4577 91592	- 1.127237 13	0.0132 97107	0.1426 92747	Dow n
PRF1	143.55 20725	74.38484821	212.7192968	2.8597 12723	1.515870 226	0.0053 25159	0.0774 68176	Up
PRG4	4627.7 07133	9252.074887	3.339379384	0.0003 60933	- 11.43598 12	1.71E- 13	2.61E- 10	Dow n
PRICK LE2	516.87 92153	886.8290157	146.9294149	0.1656 7953	- 2.593532 72	0.0027 94967	0.0501 06364	Dow n
PRKAC B	893.03 73594	1199.691993	586.3827254	0.4887 77727	- 1.032749 55	0.0322 70822	0.2412 57267	Dow n
PRKAR 2A	454.04 92658	656.7304943	251.3680374	0.3827 56762	- 1.385500 23	0.0036 39835	0.0594 19902	Dow n
PRKCD BP	3122.3 14258	5362.774092	881.8544244	0.1644 39973	- 2.604367 06	4.75E- 06	0.0004 86402	Dow n
PRKCZ	539.02 22647	331.6772653	746.3672642	2.2502 81651	1.170105 584	0.0145 79489	0.1515 8467	Up
PRKD3	1679.8 02334	2346.658986	1012.945681	0.4316 54402	- 1.212051 39	0.0167 05693	0.1642 99865	Dow n
PRKG1	633.13 95732	1015.103964	251.1751828	0.2474 3789	- 2.014861 66	0.0230 43354	0.1980 36712	Dow n
PRKRA	259.99 84504	416.9147274	103.0821733	0.2472 50017	- 2.015957 48	0.0041 02187	0.0648 54829	Dow n
PROC	25.209 84958	3.387337936	47.03236122	13.884 75614	3.795429 934	4.66E- 05	0.0028 56906	Up
PROCR	668.26 42693	1232.661524	103.8670151	0.0842 62397	- 3.568967	5.01E- 09	2.24E- 06	Dow n

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PROM2	575.38 11358	95.6116749	1055.150597	11.035 79242	3.464118 32	9.30E- 12	9.87E- 09	Up
PROS1	2298.3 91959	3944.030345	652.7535734	0.1655 04197	- 2.595060 3	0.0003 16904	0.0116 66582	Down
PRR15L	424.59 09024	110.6790535	738.5027513	6.6724 70789	2.738221 085	0.0017 3456	0.0366 39035	Up
PRR19	104.92 34626	65.37156355	144.4753617	2.2100 64344	1.144088 373	0.0378 60789	0.2626 37007	Up
PRR36	169.14 87641	78.28831497	260.0092132	3.3211 75239	1.731693 848	0.0159 36399	0.1594 43543	Up
PRR5L	111.47 68551	159.1673464	63.78636389	0.4007 50313	- 1.319224 45	0.0407 04382	0.2723 53988	Down
PRRG2	237.63 12126	92.06519059	383.1972346	4.1622 37999	2.057359 461	0.0055 98314	0.0795 80762	Up
PRRT4	64.747 59251	25.67748091	103.8177041	4.0431 42102	2.015476 91	0.0081 39712	0.1026 96151	Up
PRRX1	791.26 25357	1460.850369	121.6747025	0.0832 90325	- 3.585707 26	0.0003 74235	0.0130 57685	Down
PRRX2	933.29 03546	1640.327794	226.2529154	0.1379 31526	- 2.857975 86	2.27E- 05	0.0016 4923	Down
PRSS22	130.75 74609	11.9821399	249.5327819	20.825 3938	4.380271 872	1.13E- 06	0.0001 60814	Up
PRSS23	3912.7 76404	5875.578967	1949.97384	0.3318 77735	- 1.591276 25	0.0359 4374	0.2545 69736	Down
PRSS48	17.281 91493	34.37627053	0.187559335	0.0054 5607	- 7.517922 15	0.0264 07153	0.2138 05489	Down
PRSS8	2176.9 8444	921.1389632	3432.829918	3.7267 23171	1.897907 656	5.95E- 05	0.0034 40494	Up
PRUNE 2	3584.1 62999	6532.302954	636.0230436	0.0973 65822	- 3.360440 76	0.0257 83392	0.2108 37084	Down
PRX	128.20 36686	61.79351592	194.6138212	3.1494 21396	1.655086 805	0.0023 83536	0.0450 91696	Up
PSD	119.29 22468	48.36732578	190.2171679	3.9327 61732	1.975542 783	0.0003 38744	0.0121 96799	Up
PSD4	647.55 4297	340.7673954	954.3411985	2.8005 64876	1.485717 849	0.0015 16865	0.0333 94	Up

PTCH2	253.43 93074	384.6435481	122.2350667	0.3177 87903	- 1.653863 89	0.0055 49958	0.0792 10362	Down
PTGDS	12913. 71387	3287.179046	22540.2487	6.8570 18856	2.777581 489	0.0374 55393	0.2620 8605	Up
PTGER 3	185.92 38095	339.4943826	32.35323629	0.0952 98296	- 3.391405 77	0.0007 76964	0.0212 03712	Down
PTGFR	220.02 46903	143.9933476	296.0560331	2.0560 39658	1.039868 093	0.0347 00955	0.2502 88092	Up
PTGFR N	4246.9 56092	7215.360649	1278.551535	0.1771 98562	- 2.496561 19	0.0276 97295	0.2198 11488	Down
PTGIR	109.53 81563	194.1177719	24.95854078	0.1285 74218	- 2.959326 71	1.83E- 06	0.0002 3027	Down
PTGIS	1558.8 24103	3024.570539	93.07766627	0.0307 73845	- 5.022151 46	0.0001 32378	0.0062 18686	Down
PTGS2	353.26 35691	659.3634632	47.16367497	0.0715 291	- 3.805325 9	0.0379 83728	0.2626 37007	Down
PTPDC 1	124.84 24974	201.4017115	48.28328326	0.2397 36211	- 2.060480 26	0.0066 18265	0.0896 29795	Down
PTPLA	220.09 39972	345.5850013	94.60299311	0.2737 47393	- 1.869082 87	0.0289 06125	0.2264 16669	Down
PTPN11	1044.9 33706	1586.062124	503.805289	0.3176 45369	- 1.654511 11	0.0004 27737	0.0141 83742	Down
PTPN14	385.48 6295	544.7687189	226.2038711	0.4152 29185	- 1.268020 25	0.0094 3973	0.1138 81218	Down
PTPN22	43.410 16679	22.13372183	64.68661175	2.9225 36583	1.547221 084	0.0195 88249	0.1815 78842	Up
PTPN6	923.70 65999	517.4332153	1329.979985	2.5703 41341	1.361959 962	0.0044 79205	0.0688 24856	Up
PTPN7	152.96 45303	69.74224929	236.1868113	3.3865 67163	1.759823 608	0.0016 75951	0.0357 82139	Up
PTPRK	1652.1 4214	929.7993707	2374.484909	2.5537 60504	1.352623 233	0.0032 51713	0.0551 81231	Up
PTPRQ	129.85 9365	255.2506721	4.468057918	0.0175 04588	- 5.836123	0.0040 16603	0.0641 76703	Down

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PTPRS	2269.8 30653	3626.57194	913.0893658	0.2517 77541	- 1.989778 5	7.72E- 05	0.0041 45252	Dow n
PTPRT	1637.1 18205	323.6282511	2950.608159	9.1172 76225	3.188602 885	0.0189 81188	0.1780 04743	Up
PTRF	20046. 78647	26759.01831	13334.55464	0.4983 20024	- 1.004855 55	0.0177 85236	0.1711 08202	Dow n
PVRIG	137.08 94802	54.61674404	219.5622163	4.0200 53195	2.007214 592	0.0004 83859	0.0151 53362	Up
PVRL3	142.81 56108	252.266396	33.36482562	0.1322 60286	- 2.918548 17	8.74E- 05	0.0045 28677	Dow n
PVRL4	629.92 66948	241.5493024	1018.304087	4.2157 19429	2.075778 854	0.0048 96956	0.0733 6893	Up
PXDN	4433.1 30716	6429.219202	2437.042229	0.3790 57262	- 1.399512 29	0.0024 22586	0.0455 21911	Dow n
PYROX D2	345.10 80902	105.8283103	584.38787	5.5220 37236	2.465200 616	9.83E- 07	0.0001 47102	Up
QKI	473.01 23156	685.2719449	260.7526864	0.3805 09794	- 1.393994 51	0.0051 73911	0.0760 03405	Dow n
QPCT	577.55 04332	1086.2467	68.85416666	0.0633 87227	- 3.979664 02	0.0278 65398	0.2207 571	Dow n
QPRT	231.00 52611	146.0158937	315.9946285	2.1641 11184	1.113774 621	0.0422 60896	0.2772 16112	Up
RAB11 FIP4	74.165 4241	35.21430236	113.1165459	3.2122 3305	1.683576 565	0.0052 32612	0.0764 91965	Up
RAB15	1015.2 11431	267.8637292	1762.559132	6.5800 58964	2.718100 512	1.04E- 05	0.0008 75776	Up
RAB17	77.842 96122	20.21323079	135.4726917	6.7021 79036	2.744630 226	0.0002 55955	0.0099 14059	Up
RAB19	48.572 28783	17.99208118	79.15249449	4.3992 96208	2.137272 742	0.0419 49658	0.2763 80524	Up
RAB23	194.74 9436	309.8586419	79.64023015	0.2570 21168	- 1.960040 91	0.0003 73859	0.0130 57685	Dow n
RAB24	1246.3 51981	806.5456685	1686.158293	2.0905 9246	1.063911 85	0.0212 70464	0.1893 01998	Up
RAB25	621.41 54366	182.8524675	1059.978406	5.7969 05122	2.535282 873	6.30E- 07	0.0001 0515	Up

RAB30	512.17 08765	803.2548405	221.0869126	0.2752 38818	- 1.861244 14	0.0004 42452	0.0144 06852	Dow n
RAB31	1828.0 99053	2920.257213	735.9408926	0.2520 12353	- 1.988433 64	0.0350 56064	0.2516 41996	Dow n
RAB37	116.56 15992	73.24955632	159.8736421	2.1825 88539	1.126040 179	0.0329 28674	0.2428 45607	Up
RAB3B	13.278 74181	25.90055872	0.656924908	0.0253 63349	- 5.301110 94	0.0004 76833	0.0150 54346	Dow n
RAB3C	112.83 74079	172.1060896	53.56872613	0.3112 54101	- 1.683835 25	0.0036 05289	0.0591 91673	Dow n
RAB3IL 1	476.32 08925	739.7843513	212.8574337	0.2877 2903	- 1.797217 31	0.0007 71157	0.0210 77125	Dow n
RAB6B	25.591 05785	49.2565436	1.925572092	0.0390 92716	- 4.676956 35	4.63E- 05	0.0028 49282	Dow n
RAC2	562.20 85595	302.7266414	821.6904775	2.7142 98529	1.440579 403	0.0024 52308	0.0458 46759	Up
RAI14	1489.2 34789	2021.10016	957.3694168	0.4736 8727	- 1.077993 19	0.0090 20393	0.1103 92717	Dow n
RAI2	366.60 81358	493.2238968	239.9923747	0.4865 78968	- 1.039254 13	0.0465 84387	0.2939 26463	Dow n
RAP1G AP	386.09 83612	80.27483287	691.9218896	8.6194 12397	3.107589 521	2.07E- 05	0.0015 40749	Up
RAP1G AP2	303.12 5984	87.30798466	518.9439833	5.9438 31889	2.571393 312	0.0017 31611	0.0366 19619	Up
RAP2A	200.27 09038	277.3228815	123.2189262	0.4443 15758	- 1.170342 79	0.0327 93465	0.2425 90527	Dow n
RAPGE FL1	395.37 06605	203.0448716	587.6964494	2.8944 16612	1.533272 593	0.0014 06025	0.0318 12389	Up
RARRE S1	8207.7 94257	15825.67364	589.9148707	0.0372 75814	- 4.745616 32	0.0446 22844	0.2868 67956	Dow n
RASA4 B	641.44 87851	891.7678286	391.1297416	0.4386 00417	- 1.189020 91	0.0252 85754	0.2083 73556	Dow n
RASAL	3325.5	1483.017663	5168.068143	3.4848	1.801089	0.0424	0.2780	Up

1	42903			32496	312	47908	3219	
RASAL3	161.07 14094	75.34476956	246.7980493	3.2755 8304	1.711751 723	0.0026 36963	0.0477 72554	Up
RASGEF1C	87.089 28031	8.448001822	165.7305588	19.617 7229	4.294085 687	0.0007 48815	0.0206 71255	Up
RASGRP2	268.35 51388	405.663015	131.0472626	0.3230 4464	- 1.630194 56	0.0009 78761	0.0250 6596	Down
RASGRP3	631.49 47389	882.2635246	380.7259533	0.4315 33145	- 1.212456 72	0.0087 83104	0.1086 68325	Down
RASL12	1308.6 66065	2121.649265	495.6828651	0.2336 30918	- 2.097696 89	0.0254 72673	0.2090 5439	Down
RASSF6	192.43 87508	48.47851574	336.3989859	6.9391 35425	2.794755 923	0.0012 5925	0.0295 39158	Up
RASSF7	204.14 29246	88.70765807	319.578191	3.6025 99798	1.849038 396	0.0010 46592	0.0262 57968	Up
RASSF8	626.85 69432	911.3380767	342.3758096	0.3756 84741	- 1.412405 57	0.0113 11796	0.1282 24699	Down
RASSF9	296.41 80385	478.8783694	113.9577076	0.2379 67958	- 2.071160 77	0.0075 51883	0.0978 65241	Down
RAVER2	135.56 54864	230.7493366	40.38163621	0.1750 02177	- 2.514555 23	0.0186 33976	0.1760 11696	Down
RBBP8NL	400.73 85596	143.5666353	657.9104839	4.5826 14076	2.196170 795	2.70E- 05	0.0018 82216	Up
RBFOX2	2124.6 941	2876.241288	1373.146911	0.4774 10194	- 1.066698 72	0.0445 19069	0.2863 02849	Down
RBMS3	619.47 70873	924.9698424	313.9843323	0.3394 53589	- 1.558713 76	0.0016 1054	0.0349 15671	Down
RBP4	1061.1 01514	1892.291341	229.911687	0.1214 99096	- 3.040982 52	1.59E- 09	8.69E- 07	Down
RBPJ	1495.4 39164	1997.710515	993.1678127	0.4971 53018	- 1.008238 13	0.0493 1343	0.3030 20077	Down
RBPMS	1752.1 34077	2690.211209	814.0569456	0.3025 99641	- 1.724517 82	0.0079 97789	0.1020 31205	Down

RCAN2	238.58 61756	371.0303576	106.1419936	0.2860 73609	- 1.805541 68	0.0005 20131	0.0159 02786	Dow n
RCN1	8449.3 91104	15102.47624	1796.305965	0.1189 41155	- 3.071680 11	0.0010 65521	0.0265 15472	Dow n
RCN3	2847.5 48132	5017.90735	677.1889138	0.1349 54447	- 2.889455 57	7.94E- 05	0.0042 15069	Dow n
RDH13	479.54 08367	306.8118826	652.2697908	2.1259 60003	1.088114 455	0.0317 96058	0.2392 86231	Up
RDH16	43.674 54811	4.693729306	82.65536692	17.609 74303	4.138301 952	0.0081 2639	0.1026 96151	Up
RDX	2454.3 73668	3349.916446	1558.830889	0.4653 3426	- 1.103660 69	0.0121 55981	0.1346 1126	Dow n
RECK	865.43 51142	1381.996782	348.8734465	0.2524 41577	- 1.985978 56	6.97E- 05	0.0039 03456	Dow n
RELB	790.95 14239	441.1017863	1140.801061	2.5862 53551	1.370863 721	0.0021 08281	0.0412 20089	Up
RELN	699.58 61279	1213.677735	185.4945212	0.1528 36718	- 2.709936 92	2.26E- 05	0.0016 4923	Dow n
REM1	423.14 43859	573.0408811	273.2478908	0.4768 38389	- 1.068427 71	0.0172 5326	0.1675 58038	Dow n
REPS2	184.48 47141	39.00053132	329.9688968	8.4606 2568	3.080764 357	2.43E- 08	7.69E- 06	Up
REV3L	1913.8 03361	2916.05085	911.5558734	0.3125 99444	- 1.677612 88	0.0421 34164	0.2771 25457	Dow n
RFX3	239.71 03924	123.5665858	355.854199	2.8798 57825	1.525997 589	0.0016 78125	0.0357 82139	Up
RGL1	1015.6 18772	1366.237556	664.9999889	0.4867 38186	- 1.038782 13	0.0092 83255	0.1121 63852	Dow n
RGS10	166.90 23523	91.69233827	242.1123664	2.6404 86337	1.400803 676	0.0036 49356	0.0595 01686	Up
RGS7	190.51 25847	300.5551616	80.47000788	0.2677 379	- 1.901106 72	0.0069 69413	0.0925 78231	Dow n
RHBDD 1	302.53 23814	199.3068543	405.7579085	2.0358 45229	1.025627 888	0.0471 00952	0.2959 31755	Up

RHBDD 2	926.88 66454	590.9625603	1262.810731	2.1368 70955	1.095499 787	0.0146 68676	0.1520 66696	Up
RHBG	651.16 39234	281.2664448	1021.061402	3.6302 2828	1.860060 272	0.0166 62174	0.1641 99265	Up
RHOB	4808.1 3037	7019.905488	2596.355252	0.3698 56155	- 1.434963 81	0.0008 35818	0.0222 37931	Down
RHOBT B3	2260.6 17193	3322.741521	1198.492865	0.3606 9398	- 1.471152 75	0.0004 06895	0.0136 89126	Down
RHOJ	987.16 35193	1331.545414	642.7816246	0.4827 33535	- 1.050701 04	0.0263 44788	0.2134 92194	Down
RHOQ	515.72 06337	737.5302782	293.9109891	0.3985 07014	- 1.327322 98	0.0102 56164	0.1204 49832	Down
RHOV	366.54 83283	86.61973375	646.4769229	7.4633 90788	2.899831 228	0.0033 60153	0.0565 31304	Up
RIC1	302.86 70022	412.6121144	193.12189	0.4680 47067	- 1.095274 48	0.0310 91976	0.2360 01279	Down
RIC3	396.64 08734	117.6171283	675.6646186	5.7446 10743	2.522209 139	8.54E- 06	0.0007 54974	Up
RINL	103.76 66617	62.78134686	144.7519765	2.3056 52613	1.205175 162	0.0262 40872	0.2129 3706	Up
RIPK4	571.14 54751	186.0278204	956.2631298	5.1404 30759	2.361889 26	0.0002 37876	0.0095 56902	Up
RIPPLY 3	71.892 97714	6.599093261	137.186861	20.788 74409	4.377730 698	0.0016 02552	0.0348 29446	Up
RNF128	675.09 07814	288.8154253	1061.366138	3.6748 94222	1.877702 724	8.98E- 05	0.0046 39883	Up
RNF149	1785.5 36814	938.1946429	2632.878984	2.8063 24897	1.488682 044	0.0004 79256	0.0150 615	Up
RNF208	193.59 61398	94.47618948	292.7160901	3.0983 05421	1.631479 368	0.0079 35076	0.1014 46377	Up
RNF39	190.80 26754	81.05657789	300.5487728	3.7078 88744	1.890597 956	0.0003 36834	0.0121 52305	Up
RNPEP	1356.1 23638	658.2192232	2054.028052	3.1205 83508	1.641815 819	0.0002 78593	0.0105 80086	Up
ROBO3	71.606 5406	139.6475849	3.565496309	0.0255 32101	- 5.291543 9	2.08E- 10	1.57E- 07	Down
ROCK1	2615.2 54022	3518.72159	1711.786455	0.4864 79652	- 1.039548	0.0310 56004	0.2360 01279	Down

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ROCK2	1334.2 45668	2123.852273	544.639063	0.2564 3924	- 1.963311 06	0.0006 66036	0.0189 20666	Dow n
ROGDI	2799.2 09028	1391.327989	4207.090066	3.0237 94605	1.596360 146	0.0004 39855	0.0143 8558	Up
ROR2	200.58 11285	322.7434244	78.4188326	0.2429 75772	- 2.041115 63	0.0075 73434	0.0980 03712	Dow n
RORC	738.80 75262	98.3864344	1379.228618	14.018 48361	3.809258 395	3.53E- 07	6.50E- 05	Up
RPH3A L	393.27 54066	223.2281035	563.3227097	2.5235 29524	1.335442 966	0.0029 21316	0.0514 12306	Up
RPP40	229.12 16103	332.5117856	125.731435	0.3781 26251	- 1.403060 08	0.0054 6812	0.0786 5982	Dow n
RPS6K A1	571.85 92477	296.4525186	847.2659768	2.8580 15782	1.515013 883	0.0012 96231	0.0300 89198	Up
RPS6K A2	651.40 70397	906.7135557	396.1005236	0.4368 52985	- 1.194780 25	0.0136 69265	0.1448 2909	Dow n
RPS6K A6	658.14 93865	383.6846807	932.6140922	2.4306 78469	1.281359 066	0.0041 71594	0.0653 61438	Up
RPS6K C1	803.02 60358	1091.581701	514.4703701	0.4713 0725	- 1.085260 22	0.0466 23711	0.2940 12292	Dow n
RPS6K L1	271.82 41284	371.7100479	171.9382089	0.4625 60025	- 1.112287 5	0.0228 51685	0.1971 40861	Dow n
RRAS	1331.7 22982	2099.591666	563.8542975	0.2685 54265	- 1.896714 46	0.0140 22721	0.1474 96128	Dow n
RRM2	279.88 63323	376.0253817	183.7472829	0.4886 56596	- 1.033107 13	0.0411 61627	0.2738 47143	Dow n
RSG1	284.60 33641	158.8284144	410.3783138	2.5837 83987	1.369485 461	0.0097 90654	0.1165 76641	Up
RSPH3	173.91 78134	111.2273444	236.6082823	2.1272 49226	1.088989 068	0.0242 97519	0.2044 32346	Up
RSPO2	24.795 43417	48.03709239	1.553775943	0.0323 45337	- 4.950298 45	0.0009 97278	0.0253 01271	Dow n
RSPO3	144.13 20535	288.0765476	0.187559335	0.0006 51075	- 10.58488	0.0025 51371	0.0469 93118	Dow n

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RSU1	1581.9 03437	2219.299288	944.5075857	0.4255 88198	- 1.232469 95	0.0221 83297	0.1939 5613	Dow n
RTKN	540.36 93122	243.0030788	837.7355456	3.4474 27702	1.785520 296	0.0067 29445	0.0904 56371	Up
RTP3	16.682 76793	4.074092561	29.2914433	7.1896 85276	2.845928 619	0.0070 22275	0.0930 31767	Up
RUFY4	9.8611 62888	2.923461523	16.79886425	5.7462 23823	2.522614 189	0.0412 76303	0.2741 80238	Up
RUNX1 T1	36.336 69478	57.50593555	15.16745401	0.2637 54582	- 1.922731 94	0.0266 6398	0.2153 05072	Dow n
RUSC2	1830.6 91578	2457.898159	1203.484998	0.4896 39895	- 1.030206 98	0.0490 19325	0.3025 85691	Dow n
RXFP2	7.8540 3934	15.70807868	0	0	#NAME ?	0.0022 42898	0.0433 67474	Dow n
RXRG	17.965 394	34.94540063	0.985387362	0.0281 97913	- 5.148267 81	7.68E- 05	0.0041 45252	Dow n
RYR3	1672.0 44857	742.4862319	2601.603483	3.5039 08047	1.808964 915	5.95E- 05	0.0034 40494	Up
S100A1 0	3371.5 19456	5044.37624	1698.662672	0.3367 43849	- 1.570276 5	0.0020 83821	0.0409 75964	Dow n
S100A2	753.92 09046	267.9667745	1239.875035	4.6269 73016	2.210068 685	1.96E- 06	0.0002 43572	Up
S100A4	6198.0 60271	11424.66443	971.4561174	0.0850 31479	- 3.555859 15	7.92E- 05	0.0042 14433	Dow n
S100A6	117.60 74281	183.1308894	52.08396674	0.2844 08419	- 1.813963 92	0.0032 26555	0.0550 13076	Dow n
S100G	114.08 27603	228.1655206	0	0	#NAME ?	0.0215 26873	0.1905 42748	Dow n
S1PR2	650.27 94489	909.1696732	391.3892247	0.4304 90849	- 1.215945 52	0.0170 34853	0.1663 19009	Dow n
S1PR3	193.05 8137	295.5681446	90.54812948	0.3063 52803	- 1.706734 04	0.0028 81037	0.0510 52092	Dow n
SAA3	4156.2 05196	551.8953449	7760.515048	14.061 57004	3.813685 782	0.0001 92784	0.0081 4432	Up

SACS	655.34 36073	1096.517496	214.1697184	0.1953 18104	- 2.356102 42	0.0064 50221	0.0880 81407	Dow n
SALL2	320.09 0673	144.5476061	495.6337398	3.4288 61627	1.777729 685	0.0096 16451	0.1153 301	Up
SAMD1 0	87.095 93773	46.62668235	127.5651931	2.7358 83976	1.452007 05	0.0253 80567	0.2087 51475	Up
SAMD1 4	159.30 18669	264.877351	53.72638278	0.2028 34944	- 2.301621 87	0.0149 11301	0.1538 81552	Dow n
SAMD4 A	1626.9 20976	2646.161691	607.6802618	0.2296 4593	- 2.122516 88	0.0092 81376	0.1121 63852	Dow n
SAMSN 1	150.80 05746	94.58616297	207.0149862	2.1886 39223	1.130034 159	0.0328 64026	0.2426 66465	Up
SAP25	215.37 34866	135.9514515	294.7955217	2.1683 88189	1.116623 054	0.0214 27978	0.1901 32458	Up
SAPCD 2	544.95 18258	199.2891584	890.6144931	4.4689 56064	2.159937 861	0.0475 54456	0.2974 13932	Up
SARM1	212.34 85235	296.9606032	127.7364437	0.4301 46095	- 1.217101 36	0.0229 44977	0.1973 79326	Dow n
SASH1	2269.2 29835	3041.438118	1497.021553	0.4922 08454	- 1.022658 66	0.0308 14961	0.2354 38829	Dow n
SASH3	334.34 63557	185.2735793	483.4191321	2.6092 1786	1.383617 409	0.0057 42366	0.0813 08118	Up
SAT1	5946.6 52274	3630.234716	8263.069831	2.2761 80599	1.186615 03	0.0086 27756	0.1072 61267	Up
SBK2	17.510 30497	3.78750105	31.23310888	8.2463 63095	3.043757 986	0.0064 17845	0.0879 72275	Up
SCARA 5	4105.8 53257	7259.170809	952.5357038	0.1312 18252	- 2.929959 69	0.0229 03504	0.1972 79526	Dow n
SCARF 2	849.22 64586	1402.034291	296.4186258	0.2114 20382	- 2.241813 63	1.56E- 05	0.0012 12709	Dow n
SCG2	69.297 27705	138.4069948	0.187559335	0.0013 55129	- 9.527354 07	0.0496 26121	0.3044 91699	Dow n
SCG3	37.526 89766	68.85250075	6.201294568	0.0900 66367	- 3.472867 73	0.0080 62481	0.1023 49815	Dow n
SCGB1	1255.5	140.2626334	2370.819456	16.902	4.079183	9.34E-	2.81E-	Up

D	41045			71599	178	16	12	
SCGB2 A2	218.26 74319	27.39659977	409.138264	14.933 90667	3.900519 715	0.0008 13941	0.0217 95968	Up
SCHIP1	376.32 25926	657.3600368	95.28514837	0.1449 51234	- 2.786360 48	0.0028 41852	0.0506 56293	Down
SCML1	108.46 96257	182.4614254	34.47782601	0.1889 59535	- 2.403850 78	0.0002 2084	0.0089 92616	Down
SCML4	113.40 22405	42.45798005	184.3465009	4.3418 57542	2.118312 391	0.0190 42795	0.1784 48305	Up
SCN3A	323.49 1204	617.563908	29.41850007	0.0476 36366	- 4.391792 84	2.57E- 07	5.21E- 05	Down
SCN5A	70.317 64218	2.858045934	137.7772384	48.206 7964	5.591164 653	0.0283 31694	0.2231 77042	Up
SCNN1 D	130.32 01357	51.92321903	208.7170523	4.0197 24822	2.007096 742	0.0240 40957	0.2032 21566	Up
SCRG1	32.188 72682	14.59791554	49.7795381	3.4100 4426	1.769790 464	0.0246 30474	0.2058 89307	Up
SCRN1	317.91 14307	607.4035579	28.4193035	0.0467 88174	- 4.417712 26	7.80E- 07	0.0001 26737	Down
SCUBE 2	1171.7 17319	1729.173069	614.2615693	0.3552 34291	- 1.493157 24	0.0004 33013	0.0142 79917	Down
SCX	15.942 35492	30.05245018	1.832259658	0.0609 68728	- 4.035786 74	0.0055 87823	0.0795 62089	Down
SDK1	774.57 54276	1051.407508	497.7433469	0.4734 06689	- 1.078848 01	0.0320 74708	0.2404 47481	Down
SDR42 E1	119.51 40207	62.41358287	176.6144585	2.8297 43949	1.500671 516	0.0067 56176	0.0906 80552	Up
SDR9C 7	334.92 5786	19.8569587	649.9946133	32.733 84526	5.032711 181	2.31E- 07	4.79E- 05	Up
SEC14L 2	31.402 97071	10.43774323	52.36819818	5.0171 9548	2.326881 15	0.0149 05336	0.1538 81552	Up
SEC14L 4	40.844 5979	5.543502166	76.14569363	13.736 02668	3.779892 841	2.47E- 06	0.0002 93033	Up
SEC23 A	1606.9 50967	2671.165809	542.7361254	0.2031 83241	- 2.299146 69	0.0020 39195	0.0404 79788	Down
SEC24	3023.7	4188.290256	1859.284175	0.4439	-	0.0030	0.0534	Down

D	87215			24385	1.171614 14	97943	64611	n
SEMA3 B	1311.5 3202	2116.385265	506.678774	0.2394 07627	- 2.062458 98	4.81E- 05	0.0029 3994	Dow n
SEMA3 C	1234.2 34321	2265.78308	202.6855615	0.0894 54972	- 3.482694 52	3.63E- 07	6.51E- 05	Dow n
SEMA3 D	81.685 20713	155.798127	7.572287282	0.0486 03198	- 4.362804 93	0.0041 85383	0.0653 68072	Dow n
SEMA3 G	2097.9 2501	1147.309479	3048.54054	2.6571 21376	1.409864 131	0.0381 13488	0.2629 59243	Up
SEMA4 A	1141.4 7794	619.8766266	1663.079254	2.6829 19766	1.423803 911	0.0024 89196	0.0461 59446	Up
SEMA4 B	606.03 94682	289.3104038	922.7685327	3.1895 44934	1.673350 603	0.0003 12403	0.0115 24399	Up
SEMA4 D	1133.0 34157	626.5653653	1639.50295	2.6166 51095	1.387721 568	0.0018 44627	0.0378 12752	Up
SEMA5 A	1957.0 40317	3063.168701	850.9119326	0.2777 88139	- 1.847943 1	0.0094 73341	0.1141 54713	Dow n
SEMA5 B	140.84 54656	227.4857344	54.2051968	0.2382 79543	- 2.069273	0.0005 16143	0.0158 7298	Dow n
1-Sep	204.97 30622	86.21102817	323.7350963	3.7551 47145	1.908869 441	0.0003 40691	0.0122 42468	Up
5-Sep	580.81 43065	867.272176	294.356437	0.3394 04913	- 1.558920 65	0.0016 31727	0.0351 66942	Dow n
7-Sep	4183.8 92096	5611.971834	2755.812357	0.4910 59549	- 1.026030 11	0.0325 86378	0.2424 05147	Dow n
SERF1 A	103.30 5799	141.7841575	64.82744056	0.4572 26264	- 1.129019 82	0.0350 0527	0.2514 85321	Dow n
SERHL 2	24.155 50497	2.811592211	45.49941772	16.182 79406	4.016388 814	0.0001 62342	0.0072 13035	Up
SERPIN A1	1773.5 68519	120.8591192	3426.277919	28.349 35371	4.825243 941	4.39E- 20	3.96E- 16	Up
SERPIN A11	621.41 83922	75.33866468	1167.49812	15.496 66595	3.953885 953	8.52E- 10	5.49E- 07	Up
SERPIN A3-1	115.09 68432	9.031186516	221.1624999	24.488 75344	4.614047 433	4.12E- 05	0.0026 42511	Up
SERPIN	1473.2	198.1928998	2748.213248	13.866	3.793516	3.28E-	0.0022	Up

A5	03074			35571	77	05	01057	
SERPIN B5	333.14 88553	145.834008	520.4637026	3.5688 77449	1.835470 362	0.0006 06669	0.0177 36966	Up
SERPIN B8	374.78 39245	518.0037041	231.5641449	0.4470 31832	- 1.161550 53	0.0246 75294	0.2059 77614	Down
SERPIN B9	232.76 68744	362.5801602	102.9535886	0.2839 4711	- 1.816305 87	0.0373 28383	0.2616 81546	Down
SERPIN E1	9086.7 6971	17753.81191	419.7275114	0.0236 41543	- 5.402531 98	0.0442 37052	0.2849 97206	Down
SERPIN F1	4570.7 40173	8388.597683	752.8826621	0.0897 50718	- 3.477932 71	0.0001 99215	0.0083 18592	Down
SERPIN G1	12094. 62977	16676.74372	7512.51582	0.4504 78579	- 1.150469 59	0.0415 38905	0.2746 46511	Down
SERPIN H1	11847. 65415	20379.7071	3315.601209	0.1626 91308	- 2.619790 92	2.03E- 07	4.26E- 05	Down
SERTM 1	490.97 56175	863.4697431	118.481492	0.1372 15569	- 2.865483 91	0.0242 88057	0.2044 32346	Down
SETBP1	656.21 59748	961.7214378	350.7105118	0.3646 69537	- 1.455338 41	0.0412 81309	0.2741 80238	Down
SFRP1	2060.1 09238	2927.171411	1193.047066	0.4075 76769	- 1.294856 27	0.0463 7588	0.2934 20711	Down
SFRP2	9880.2 2388	18742.18936	1018.258401	0.0543 29747	- 4.202113 87	0.0020 63204	0.0407 00303	Down
SFRP4	4133.0 30197	8024.361275	241.6991198	0.0301 20668	- 5.053102 44	1.39E- 06	0.0001 83782	Down
SFXN1	611.97 09177	860.3126012	363.6292341	0.4226 71054	- 1.242392 78	0.0136 68957	0.1448 2909	Down
SFXN3	1272.2 79498	2130.163005	414.3959914	0.1945 37221	- 2.361881 88	2.85E- 06	0.0003 25976	Down
SFXN5	370.24 8395	234.1306145	506.3661754	2.1627 50806	1.112867 447	0.0152 78108	0.1560 59903	Up

SGCA	99.816 42294	181.4487644	18.18408152	0.1002 16067	- 3.318814 27	0.0266 79504	0.2153 34037	Down
SGCB	1877.1 69258	3076.419011	677.9195056	0.2203 59939	- 2.182066 13	0.0336 21184	0.2460 23638	Down
SGCE	540.44 02315	811.6800271	269.200436	0.3316 58322	- 1.592230 37	0.0017 49682	0.0367 06729	Down
SGCG	58.493 14529	116.7987312	0.187559335	0.0016 05834	- 9.282461 82	0.0413 8092	0.2743 38426	Down
SGIP1	114.88 7651	195.8529898	33.92231217	0.1732 02932	- 2.529464 74	0.0422 28569	0.2771 25457	Down
SGK1	1460.6 20072	2091.254694	829.9854503	0.3968 83963	- 1.333210 83	0.0385 05484	0.2644 08235	Down
SGK2	16.901 27057	4.759575102	29.04296604	6.1020 08146	2.609284 106	0.0129 17838	0.1406 30588	Up
SGPP2	193.88 5866	60.16192996	327.609802	5.4454 66963	2.445055 769	0.0002 08695	0.0085 95107	Up
SGTB	88.818 11295	145.2120004	32.42422554	0.2232 88884	- 2.163016 66	0.0047 94088	0.0721 73265	Down
SH2D2 A	46.933 98221	24.45011098	69.41785344	2.8391 63123	1.505465 741	0.0314 63156	0.2377 72886	Up
SH2D3 A	94.928 25575	43.49887427	146.3576372	3.3646 30457	1.750448 06	0.0018 8472	0.0382 00529	Up
SH2D4 A	240.89 13904	50.01120844	431.7715724	8.6334 96089	3.109944 889	4.72E- 08	1.25E- 05	Up
SH3BG R	872.32 54649	1534.742405	209.9085244	0.1367 71177	- 2.870163 87	0.0128 20323	0.1397 37649	Down
SH3BP1	552.63 64297	311.5283961	793.7444632	2.5479 04053	1.349310 951	0.0034 64449	0.0577 05631	Up
SH3GL B2	3136.5 63297	1889.043392	4384.083203	2.3207 95394	1.214619 337	0.0078 82303	0.1009 14741	Up
SH3PX D2B	2375.7 59673	3763.564281	987.9550651	0.2625 05166	- 1.929582 28	0.0021 3348	0.0416 51354	Down
SH3RF2	114.83 88933	38.50251642	191.1752702	4.9652 66896	2.311871 268	0.0007 31934	0.0204 07035	Up
SH3YL	914.06	503.7501078	1324.383248	2.6290	1.394540	0.0041	0.0653	Up

1	6678			48069	52	73527	61438	
SHANK 1	45.584 63264	78.96846004	12.20080525	0.1545 02256	- 2.694300 19	0.0018 17383	0.0373 39145	Dow n
SHANK 2	2031.1 04233	535.263695	3526.944771	6.5891 7241	2.720097 276	0.0022 02794	0.0427 73087	Up
SHE	147.60 91932	233.3976058	61.82078062	0.2648 73242	- 1.916625 99	0.0002 83777	0.0106 86944	Dow n
SHOX2	240.22 8265	432.0298813	48.42664873	0.1120 90971	- 3.157258 03	0.0020 64459	0.0407 00303	Dow n
SHROO M1	352.25 89461	219.1049945	485.4128977	2.2154 35111	1.147590 071	0.0162 35352	0.1614 25488	Up
SHROO M3	1819.2 89984	821.3673123	2817.212655	3.4299 05978	1.778169 029	0.0001 1747	0.0056 65887	Up
SIDT1	116.05 0203	35.72569251	196.3747134	5.4967 36372	2.458575 288	1.23E- 05	0.0010 02191	Up
SIGLEC 15	37.866 86744	13.89519196	61.83854292	4.4503 55424	2.153920 56	0.0328 43456	0.2426 13887	Up
SIM1	15.854 67298	31.70934596	0	0	#NAME ?	0.0094 8361	0.1142 02163	Dow n
SIM2	26.147 86389	50.55439251	1.741335278	0.0344 44787	- 4.859570 54	0.0467 86369	0.2946 42218	Dow n
SIRT3	254.52 19597	152.2502034	356.793716	2.3434 69552	1.228646 051	0.0170 04229	0.1661 64291	Up
SIT1	90.810 34008	46.48241391	135.1382662	2.9072 98801	1.539679 354	0.0162 94075	0.1616 7702	Up
SIX1	42.692 38874	73.00216063	12.38261686	0.1696 19868	- 2.559622 93	0.0007 38608	0.0205 57378	Dow n
SIX3	22.716 82409	6.002683378	39.4309648	6.5688 89663	2.715649 533	0.0036 19896	0.0593 09081	Up
SIX4	245.96 26588	139.474709	352.4506087	2.5269 85797	1.337417 556	0.0080 95411	0.1026 23415	Up
SKA1	67.670 33805	100.3591839	34.98149219	0.3485 6294	- 1.520508 91	0.0350 0187	0.2514 85321	Dow n
SKIL	1081.3 58012	1512.136893	650.5791315	0.4302 38251	- 1.216792 3	0.0242 29162	0.2042 38245	Dow n
SLAIN1	56.400 28108	23.62806058	89.17250158	3.7740 08504	1.916097 674	0.0143 94999	0.1504 46921	Up

SLAIN2	371.32 03361	496.1811272	246.459545	0.4967 12856	- 1.009516 01	0.0226 6128	0.1963 43342	Dow n
SLAMF 9	40.987 69282	77.93907018	4.036315466	0.0517 88089	- 4.271235 88	6.30E- 06	0.0005 88511	Dow n
SLC12 A4	2120.3 8454	3344.336452	896.4326276	0.2680 44989	- 1.899452 93	6.66E- 05	0.0037 87648	Dow n
SLC13 A2	250.88 62073	66.46257769	435.309837	6.5496 98373	2.711428 469	0.0164 05023	0.1625 09728	Up
SLC15 A2	116.52 80859	37.38193994	195.6742319	5.2344 58998	2.388040 437	0.0156 88146	0.1581 00954	Up
SLC16 A11	551.45 50667	273.0062695	829.903864	3.0398 71082	1.604010 142	0.0003 93103	0.0134 55749	Up
SLC16 A2	226.89 00802	331.1529176	122.6272428	0.3703 03978	- 1.433218 05	0.0069 51954	0.0925 69328	Dow n
SLC16 A3	262.93 5461	428.4454687	97.42545338	0.2273 9289	- 2.136740 95	0.0001 13401	0.0055 58799	Dow n
SLC17 A1	13.654 813	2.571454423	24.73817158	9.6203 03342	3.266082 385	0.0053 31488	0.0774 97754	Up
SLC17 A7	62.562 66985	16.87851346	108.2468262	6.4132 9146	2.681064 974	0.0152 31163	0.1558 59894	Up
SLC19 A1	105.01 86351	147.1948955	62.84237467	0.4269 33111	- 1.227918 04	0.0477 666	0.2982 56038	Dow n
SLC19 A3	29.546 32547	9.615892437	49.47675851	5.1453 11143	2.363258 321	0.0032 15448	0.0549 79591	Up
SLC1A 1	406.94 06571	139.0581096	674.8232045	4.8528 14455	2.278821 7	4.92E- 06	0.0004 98657	Up
SLC22 A31	70.580 06622	18.47619154	122.6839409	6.6401 0982	2.731207 102	2.27E- 05	0.0016 4923	Up
SLC22 A5	697.32 31697	360.4475012	1034.198838	2.8692 07956	1.520652 536	0.0087 97842	0.1087 76064	Up
SLC23 A1	26.289 17848	10.49633113	42.08202584	4.0092 1287	2.003319 02	0.0209 68604	0.1884 01543	Up
SLC24 A3	522.38 71575	211.1266802	833.6476348	3.9485 66017	1.981328 811	0.0229 07915	0.1972 79526	Up
SLC25 A10	953.69 3038	385.2181472	1522.167929	3.9514 4398	1.982379 955	0.0007 57366	0.0207 31604	Up
SLC25 A13	171.25 07696	109.0080472	233.493492	2.1419 83992	1.098947 698	0.0349 00549	0.2511 25253	Up

SLC25 A29	3348.9 17582	2149.243164	4548.591999	2.1163 69183	1.081591 315	0.0253 89475	0.2087 51475	Up
SLC25 A47	11.278 23506	2.548227561	20.00824255	7.8518 27228	2.973028 428	0.0242 60411	0.2043 1072	Up
SLC25 A48	55.362 07385	1.616639948	109.1075077	67.490 29547	6.076608 165	1.65E- 05	0.0012 70317	Up
SLC26 A4	14.112 94757	1.882137094	26.34375804	13.996 72644	3.807017 544	0.0184 19394	0.1751 33548	Up
SLC27 A5	247.00 85641	104.5157706	389.5013577	3.7267 23303	1.897907 708	0.0007 54198	0.0207 0773	Up
SLC28 A3	6592.6 38962	3086.513265	10098.76466	3.2719 00618	1.710128 928	0.0099 45374	0.1178 74248	Up
SLC2A 10	161.29 44614	260.3187118	62.27021107	0.2392 07588	- 2.063664 94	0.0002 49062	0.0098 52714	Down
SLC2A 11	25.302 62956	10.00709536	40.59816377	4.0569 37835	2.020391 196	0.0361 2419	0.2556 68289	Up
SLC2A 13	46.770 9217	71.60377177	21.93807163	0.3063 81509	- 1.706598 87	0.0193 95095	0.1802 84617	Down
SLC2A 3	2078.6 77172	3454.757786	702.5965584	0.2033 70714	- 2.297816 15	1.19E- 06	0.0001 67684	Down
SLC2A 4	203.28 26891	313.263464	93.30191426	0.2978 38481	- 1.747397 93	0.0005 74613	0.0170 20448	Down
SLC34 A3	43.891 41987	22.18847493	65.59436481	2.9562 3584	1.563761 368	0.0227 93791	0.1968 54819	Up
SLC35 D1	61.780 42285	102.8409234	20.7199223	0.2014 7546	- 2.311323 97	0.0009 77538	0.0250 6596	Down
SLC35E 4	79.856 88896	124.7575532	34.95622468	0.2801 93253	- 1.835505 88	0.0041 12284	0.0649 00685	Down
SLC35 G2	23.155 8751	38.51002347	7.801726728	0.2025 89509	- 2.303368 63	0.0101 49408	0.1195 85351	Down
SLC37 A1	1475.5 54578	769.922956	2181.186199	2.8329 92811	1.502326 941	0.0049 31079	0.0737 57653	Up
SLC37 A2	274.24 28714	136.8561956	411.6295471	3.0077 52373	1.588685 795	0.0006 40372	0.0183 31103	Up
SLC38 A5	114.18 62355	214.0904468	14.28202413	0.0667 10236	- 3.905948 05	0.0027 3404	0.0491 71841	Down

SLC39 A11	1219.1 45881	641.057953	1797.23381	2.8035 43426	1.487251 417	0.0007 84265	0.0212 10438	Up
SLC39 A13	1116.9 97567	1539.695988	694.299146	0.4509 3262	- 1.149016 22	0.0196 79616	0.1821 4499	Down
SLC39 A5	27.154 48553	13.79972181	40.50924924	2.9355 12019	1.553612 164	0.0401 89795	0.2703 87671	Up
SLC3A 2	2859.0 9876	1449.038636	4269.158883	2.9462 00866	1.558855 794	0.0012 15876	0.0288 59466	Up
SLC41 A2	516.02 7189	905.217967	126.8364111	0.1401 16984	- 2.835296 26	0.0043 21369	0.0669 12591	Down
SLC44 A3	360.20 42115	50.81518839	669.5932347	13.177 02946	3.719953 271	8.08E- 05	0.0042 62508	Up
SLC44 A4	93.042 8805	9.4006838	176.6850772	18.794 91758	4.232270 684	0.0023 84081	0.0450 91696	Up
SLC46 A1	118.49 59308	62.91794572	174.0739159	2.7666 81491	1.468156 566	0.0044 52264	0.0685 27636	Up
SLC46 A2	103.29 57483	64.57336982	142.0181268	2.1993 2965	1.137063 861	0.0258 23409	0.2110 09242	Up
SLC4A 11	727.02 18781	1125.639974	328.4037817	0.2917 48507	- 1.777202 82	0.0318 58593	0.2395 56964	Down
SLC4A 4	575.11 31638	1032.309976	117.9163516	0.1142 25721	- 3.130040 54	0.0091 84166	0.1114 89343	Down
SLC6A 12	10.055 7358	2.746606828	17.36486478	6.3222 97245	2.660448 866	0.0301 68103	0.2322 67352	Up
SLC6A 17	448.84 18882	888.8509406	8.832835838	0.0099 37365	- 6.652920 99	0.0071 0476	0.0936 59534	Down
SLC6A 2	192.95 13825	376.263068	9.639696961	0.0256 19567	- 5.286610 08	1.69E- 07	3.63E- 05	Down
SLC7A 2	1078.1 99304	1820.998247	335.40036	0.1841 84889	- 2.440773 39	0.0185 13261	0.1756 76336	Down
SLC7A 8	508.07 88785	158.654616	857.5031411	5.4048 42055	2.434252 459	4.19E- 06	0.0004 36451	Up
SLC8A 2	36.181 98964	67.05475965	5.30921964	0.0791 77372	- 3.658768 01	0.0332 01194	0.2442 56254	Down
SLC9A 3R1	1218.6 74134	762.1885691	1675.159699	2.1978 2842	1.136078 763	0.0230 65312	0.1981 3103	Up

SLC9A4	12.48001576	0	24.96003151	Inf	Inf	0.000673967	0.019088188	Up
SLC9A7	337.8957988	176.6800309	499.1115667	2.824946114	1.498223348	0.003943817	0.063350413	Up
SLCO1A2	138.0351954	59.27595419	216.7944366	3.657375736	1.870808848	0.012508006	0.137245698	Up
SLCO2A1	369.5883245	533.6710076	205.5056414	0.385079269	-1.37677264	0.037638558	0.262350059	Down
SLCO4A1	225.5801204	366.4503389	84.70990186	0.231163388	-2.11301518	0.010546642	0.122505396	Down
SLCO4C1	74.10438271	21.71033185	126.4984336	5.826646707	2.542665837	0.000513797	0.015843404	Up
SLIT1	53.69106105	16.73915229	90.64296981	5.415027489	2.436968661	0.032673736	0.242527832	Up
SLIT2	760.8732875	1257.824069	263.922506	0.209824659	-2.25274386	0.00024257	0.009680795	Down
SLIT3	3063.505474	5233.577691	893.4332576	0.17071176	-2.55036565	0.00101232	0.025540201	Down
SLITRK2	301.3501647	156.0632139	446.6371154	2.861898742	1.516972628	0.049306106	0.303020077	Up
SLITRK4	32.28159465	63.67204883	0.89114046	0.013995787	-6.15886353	1.41E-07	3.22E-05	Down
SLITRK5	30.19928113	58.89715312	1.501409151	0.02549205	-5.29380881	0.001816831	0.037339145	Down
SLITRK6	121.8717918	32.61004961	211.133534	6.47449288	2.694767197	9.76E-06	0.000830629	Up
SLMAP	3335.556574	5555.601999	1115.51115	0.200790328	-2.31623831	0.045075294	0.288715962	Down
SMAD7	471.4138711	663.6528799	279.1748622	0.420663981	-1.2492598	0.017135281	0.167082887	Down
SMAD9	269.9404836	471.5632393	68.31772778	0.144875007	-2.78711936	0.016161557	0.16098196	Down
SMARCD3	1439.509023	2177.782995	701.2350513	0.321994915	-1.63489019	0.026953999	0.216291453	Down

SMC1A	454.51 99374	619.3594798	289.680395	0.4677 09633	- 1.096314 95	0.0219 52982	0.1926 11795	Down
SMCO3	47.177 05437	19.46788827	74.88622046	3.8466 53495	1.943603 878	0.0413 39277	0.2743 38426	Up
SMIM1 4	2848.2 35914	3872.760018	1823.711809	0.4709 07518	- 1.086484 34	0.0134 48732	0.1436 3758	Down
SMKR1	89.337 21747	40.69964684	137.9747881	3.3900 7335	1.761316 489	0.0235 71348	0.2004 18389	Up
SMOC1	1086.5 04763	1644.983704	528.0258215	0.3209 91521	- 1.639392 9	5.07E- 05	0.0030 56851	Down
SMPD2	468.44 05754	295.9897146	640.8914362	2.1652 49008	1.114532 948	0.0173 90277	0.1685 67011	Up
SMPD3	56.900 08613	29.16194174	84.63823052	2.9023 52363	1.537222 682	0.0328 95875	0.2427 02942	Up
SMPDL 3B	30.093 08236	50.7849403	9.401224419	0.1851 18351	- 2.433480 17	0.0101 17266	0.1193 62565	Down
SMTN	4427.7 35078	7867.896389	987.5737675	0.1255 19417	- 2.994017 54	0.0134 48854	0.1436 3758	Down
SNAI1	218.42 06726	325.8684641	110.9728812	0.3405 45015	- 1.554082 58	0.0036 30748	0.0594 19902	Down
SNAI2	1106.8 07022	1598.279048	615.3349967	0.3849 98475	- 1.377075 36	0.0102 4581	0.1204 39133	Down
SNAPC 5	278.99 28791	173.4272089	384.5585493	2.2174 06091	1.148873 006	0.0260 69604	0.2120 9125	Up
SNED1	318.56 61046	446.1739114	190.9582978	0.4279 90729	- 1.224348 55	0.0172 5832	0.1675 58038	Down
SNRK	580.04 80351	787.1854156	372.9106546	0.4737 2658	- 1.077873 47	0.0118 94679	0.1328 59517	Down
SNTB2	135.32 59881	202.764122	67.88785427	0.3348 11966	- 1.578577 01	0.0051 17991	0.0756 12976	Down
SNX24	272.62 61906	419.0944247	126.1579566	0.3010 25137	- 1.732044 13	0.0482 4119	0.2997 66735	Down
SNX5	1574.9	991.5547305	2158.371862	2.1767	1.122179	0.0262	0.2131	Up

	63296			55146	134	93013	68387	
SNX7	355.23 23774	479.2030857	231.2616692	0.4825 96369	- 1.051111 03	0.0203 87254	0.1852 72379	Dow n
SOCS1	80.422 75698	112.5931716	48.25234233	0.4285 54784	- 1.222448 45	0.0463 28971	0.2933 40927	Dow n
SOCS3	518.86 30355	803.0093203	234.7167508	0.2922 96422	- 1.774495 93	0.0334 11598	0.2453 03316	Dow n
SOCS4	162.81 71163	230.8270303	94.8072022	0.4107 28337	- 1.283743 61	0.0203 04668	0.1849 30623	Dow n
SOD2	3969.7 50244	2162.024316	5777.476173	2.6722 53097	1.418056 656	0.0034 82156	0.0579 47058	Up
SOD3	730.19 15855	1137.219319	323.1638521	0.2841 70209	- 1.815172 78	0.0024 63228	0.0459 07943	Dow n
SOGA1	1300.8 77407	1742.549725	859.2050891	0.4930 73499	- 1.020125 38	0.0469 91906	0.2955 67291	Dow n
SOGA3	29.792 75251	58.36019154	1.225313489	0.0209 95707	- 5.573761 81	0.0055 87046	0.0795 62089	Dow n
SORBS 1	5119.7 18851	8510.63306	1728.804641	0.2031 3467	- 2.299491 6	0.0275 1564	0.2189 47782	Dow n
SORL1	1772.8 80039	899.1779373	2646.582141	2.9433 35275	1.557451 889	0.0063 23476	0.0871 42238	Up
SORT1	1413.1 20995	760.3863826	2065.855608	2.7168 49821	1.441934 82	0.0011 18853	0.0273 85332	Up
SOWA HA	67.842 18913	35.03148038	100.6528979	2.8732 12801	1.522664 848	0.0227 96702	0.1968 54819	Up
SOX10	4658.8 49516	2082.067625	7235.631408	3.4752 14408	1.797101 989	0.0002 44739	0.0097 3701	Up
SOX15	87.746 72742	53.1213638	122.372091	2.3036 3233	1.203910 474	0.0291 36473	0.2274 30909	Up
SOX18	587.57 32126	830.4122997	344.7341255	0.4151 36102	- 1.268343 69	0.0069 28629	0.0925 69328	Dow n
SOX5	58.654 02926	98.37945024	18.92860829	0.1924 04087	- 2.377788 65	0.0262 27442	0.2129 23868	Dow n
SPARC	15872	290044.1363	27399.30843	0.0944	-	0.0011	0.0273	Dow

	1.7224			65997	3.40406107	14675	62813	n
SPATA18	32.71849308	63.37289901	2.064087157	0.032570502	-4.94029022	0.043569844	0.282458939	Down
SPATA20	633.1837153	948.4941901	317.8732405	0.335134621	-1.57718737	0.009533888	0.114578149	Down
SPC24	79.19154157	118.4256099	39.95747327	0.337405679	-1.56744384	0.022630497	0.196223216	Down
SPDEF	289.5504689	31.86768147	547.2332563	17.17204488	4.101989943	0.000170481	0.007446284	Up
SPDYC	7.177330503	0.619636744	13.73502426	22.16625206	4.47029295	0.029440168	0.229018434	Up
SPEG	1986.297017	2928.855434	1043.738601	0.356363987	-1.48857654	0.045579379	0.290122235	Down
SPHKA P	64.40483173	19.03828187	109.7713816	5.76582395	2.527526787	0.000327461	0.011885454	Up
SPINK4	5.643859903	0	11.28771981	Inf	Inf	0.013644501	0.144784205	Up
SPINK6	31.51558779	4.3506824	58.68049318	13.48765269	3.753567387	0.013872976	0.146176761	Up
SPINT1	1650.820898	342.1868914	2959.454905	8.648650719	3.112475075	3.70E-08	1.08E-05	Up
SPINT2	8238.91668	2560.204132	13917.62923	5.436140445	2.442582729	3.44E-07	6.46E-05	Up
SPIRE2	147.6076504	81.95093966	213.2643611	2.602341865	1.379810499	0.007597023	0.098238498	Up
SPN	301.475344	175.5731284	427.3775596	2.434185479	1.283439102	0.008498163	0.105942195	Up
SPON1	4476.506964	8697.858986	255.1549411	0.029335373	-5.09121483	0.001234484	0.029224233	Down
SPON2	1295.776846	2018.586109	572.967583	0.283845995	-1.81681971	0.000228865	0.009256733	Down
SPP1	31025.71246	1686.740292	60364.68462	35.78777652	5.161395007	0.024490149	0.205191733	Up
SPP2	72.70130717	137.467564	7.935050336	0.057723074	-4.11470806	1.43E-07	3.22E-05	Down
SPRY3	14.989	24.42944682	5.549145767	0.2271	-	0.0458	0.2907	Down

	29629			49874	2.138283 59	28293	83181	n
SPSB1	1132.6 3394	1757.758876	507.5090042	0.2887 25041	- 1.792231 86	0.0233 88791	0.1994 84824	Dow n
SPSB2	212.24 60481	116.9966867	307.4954095	2.6282 40321	1.394097 199	0.0132 49421	0.1423 50391	Up
SPSB4	63.869 06826	105.5068375	22.23129902	0.2107 09557	- 2.246672 34	0.0357 45552	0.2539 63773	Dow n
SPTSSB	11.757 02016	1.041324429	22.47271588	21.580 89761	4.431682 967	0.0032 93309	0.0555 94325	Up
SRCIN1	161.29 5715	48.56081024	274.0306197	5.6430 40516	2.496472 708	0.0268 74744	0.2158 47506	Up
SRD5A 1	835.22 5767	419.1075529	1251.343981	2.9857 34742	1.578085 999	0.0458 03714	0.2907 83181	Up
SRF	935.22 71803	1261.216881	609.2374795	0.4830 55285	- 1.049739 78	0.0270 647	0.2168 90327	Dow n
SRL	238.26 33164	420.8366766	55.68995619	0.1323 31518	- 2.917771 38	0.0003 23767	0.0117 98842	Dow n
SRPK2	884.53 28212	1199.281169	569.7844733	0.4751 04995	- 1.073681 72	0.0302 58768	0.2326 6748	Dow n
SRPK3	49.394 27176	86.94240271	11.84614082	0.1362 52743	- 2.875642 82	0.0136 38767	0.1447 84205	Dow n
SRPX	666.72 67091	1081.052959	252.4004592	0.2334 76498	- 2.098650 76	1.17E- 05	0.0009 62245	Dow n
SRPX2	306.32 54503	542.8441564	69.80674416	0.1285 94447	- 2.959099 75	2.08E- 08	6.84E- 06	Dow n
SSC5D	821.29 75332	1388.554638	254.0404282	0.1829 53138	- 2.450453 93	0.0007 40745	0.0205 57378	Dow n
SSPN	142.23 50322	240.1526266	44.31743793	0.1845 38635	- 2.438005 2	0.0073 68279	0.0959 6851	Dow n
SSPO	24.936 4222	9.306074064	40.56677034	4.3591 71231	2.124053 875	0.0247 56545	0.2063 44811	Up
SSTR1	37.579 90192	55.757573	19.40223085	0.3479 7481	- 1.522945	0.0442 73192	0.2851 2821	Dow n

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ST14	1712.2 15198	551.1628964	2873.2675	5.2131 00371	2.382141 637	1.86E- 06	0.0002 32886	Up
ST18	26.544 68932	7.134782755	45.95459589	6.4409 24338	2.687267 744	0.0016 68005	0.0356 92935	Up
ST3GA L3	444.05 27178	670.2312904	217.8741452	0.3250 73073	- 1.621164 04	0.0008 12665	0.0217 95968	Down
ST6GA LNAC3	379.50 17393	44.5544839	714.4489948	16.035 40053	4.003188 484	0.0157 35453	0.1582 8958	Up
ST8SIA 5	33.185 74501	52.41460583	13.9568842	0.2662 7853	- 1.908991 99	0.0215 27031	0.1905 42748	Down
STAB1	3309.8 26131	5419.853229	1199.799032	0.2213 7113	- 2.175461 01	0.0006 52414	0.0185 92261	Down
STAC	380.18 18975	509.3299305	251.0338644	0.4928 70828	- 1.020718 5	0.0293 12735	0.2284 11417	Down
STAP2	735.58 89339	215.0954015	1256.082466	5.8396 52812	2.545882 598	6.74E- 07	0.0001 11594	Up
STAR	8.1874 55957	1.041324429	15.33358748	14.725 08188	3.880203 752	0.0227 60262	0.1968 22799	Up
STARD 10	298.80 77046	118.9518223	478.6635868	4.0240 12221	2.008634 687	0.0001 81312	0.0077 27022	Up
STARD 9	1832.6 55791	2608.155562	1057.15602	0.4053 27058	- 1.302841 61	0.0057 28267	0.0812 36009	Down
STC1	229.92 67583	328.0302225	131.8232942	0.4018 63259	- 1.315223 41	0.0205 64631	0.1865 74402	Down
STC2	142.18 34783	27.79015332	256.5768032	9.2326 51591	3.206745 045	0.0098 62784	0.1171 26237	Up
STEAP 1	108.00 89854	190.2929954	25.72497537	0.1351 86139	- 2.886980 86	2.21E- 06	0.0002 64211	Down
STK31	69.131 25926	31.55826229	106.7042562	3.3811 82881	1.757528 051	0.0069 58479	0.0925 69328	Up
STK32 A	10.154 42765	18.47088507	1.837970233	0.0995 06343	- 3.329067 69	0.0075 40621	0.0977 89543	Down
STK38	2342.7 18725	3214.695666	1470.741783	0.4575 0576	- 1.128138 19	0.0157 42087	0.1582 8958	Down

STOM	2415.3 14151	3302.640592	1527.98771	0.4626 56371	- 1.111987 04	0.0104 17012	0.1216 96857	Down
STX10	584.04 21126	352.0337291	816.050496	2.3181 03149	1.212944 764	0.0184 63414	0.1753 8785	Up
STX19	200.71 17657	50.54433523	350.8791963	6.9420 08331	2.795353 097	0.0026 00452	0.0473 21709	Up
STX2	581.24 28727	833.8156508	328.6700946	0.3941 75972	- 1.343088 26	0.0055 49592	0.0792 10362	Down
STXBP 2	688.72 24607	363.4081483	1014.036773	2.7903 5233	1.480447 298	0.0042 02071	0.0655 15258	Up
SUCNR 1	60.651 25971	103.7644608	17.53805864	0.1690 17971	- 2.564751 44	0.0018 72195	0.0380 75	Down
SULF1	1271.7 6485	2447.728493	95.80120731	0.0391 38821	- 4.675255 89	2.18E- 05	0.0016 05363	Down
SULF2	4435.4 05031	2067.328274	6803.481788	3.2909 53775	1.718505 762	0.0005 25197	0.0160 30518	Up
SULT1 B1	124.28 58901	175.8493005	72.72247972	0.4135 50009	- 1.273866 3	0.0146 431	0.1519 83243	Down
SULT1 C4	282.31 64538	84.34165505	480.2912525	5.6945 91269	2.509592 296	0.0004 50325	0.0145 51557	Up
SULT2 B1	29.526 0014	3.30296048	55.74904233	16.878 50723	4.077115 409	0.0004 11176	0.0137 86634	Up
SURF1	898.30 26191	551.5521508	1245.053088	2.2573 62401	1.174638 05	0.0212 63464	0.1893 01998	Up
SUSD3	154.40 87848	75.61155732	233.2060123	3.0842 64107	1.624926 309	0.0017 08038	0.0363 3407	Up
SVEP1	5572.7 73075	10298.71097	846.8351745	0.0822 27298	- 3.604238 77	0.0319 9387	0.2400 73803	Down
SVOP	24.942 08212	47.67678591	2.207378329	0.0462 98807	- 4.432881 16	0.0280 09605	0.2213 16369	Down
SYBU	206.23 00242	108.5708207	303.8892276	2.7989 95398	1.484909 115	0.0024 01572	0.0452 80316	Up
SYDE1	628.93 68264	950.116298	307.7573549	0.3239 15457	- 1.626310 78	0.0009 81786	0.0250 6596	Down
SYN1	42.229 62364	69.33512696	15.12412032	0.2181 30708	- 2.196735	0.0399 59012	0.2699 70269	Down

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SYNC	1547.8 55857	2947.823255	147.8884594	0.0501 687	- 4.317068 65	0.0118 37868	0.1326 35594	Dow n
SYNE4	198.59 17939	73.03603144	324.1475563	4.4381 86877	2.149970 416	0.0001 81621	0.0077 27022	Up
SYNGR 1	643.75 3554	240.48639	1047.020718	4.3537 62881	2.122262 836	1.94E- 05	0.0014 54351	Up
SYNGR 2	1544.0 77604	845.0559105	2243.099297	2.6543 7975	1.408374 786	0.0037 64898	0.0608 07396	Up
SYNM	8535.6 35145	14722.79111	2348.479184	0.1595 13177	- 2.648252 49	0.0344 67688	0.2493 4421	Dow n
SYNPO 2	4860.4 32957	9124.719054	596.1468605	0.0653 33174	- 3.936040 45	0.0061 39327	0.0852 55825	Dow n
SYT1	1263.3 37097	146.1164522	2380.557741	16.292 19507	4.026109 088	0.0033 62608	0.0565 31304	Up
SYT11	476.62 56356	784.8214157	168.4298555	0.2146 09148	- 2.220216 52	0.0174 55511	0.1689 27015	Dow n
SYT9	72.736 42578	137.7253606	7.747491	0.0562 53191	- 4.151921 26	9.21E- 06	0.0007 97644	Dow n
SYTL1	368.47 72239	121.720565	615.2338828	5.0544 77711	2.337562 023	5.19E- 06	0.0005 11761	Up
TACC1	3646.9 64429	5367.815013	1926.113844	0.3588 2642	- 1.478641 98	0.0014 08417	0.0318 12389	Dow n
TACR2	46.102 9114	25.44754439	66.75827842	2.6233 68188	1.391420 303	0.0320 83657	0.2404 47481	Up
TACST D2	395.46 8877	98.81276774	692.1249862	7.0044 08459	2.808263 216	2.70E- 05	0.0018 82216	Up
TAGLN	47587. 52443	85211.882	9963.166857	0.1169 22272	- 3.096378 32	0.0180 85758	0.1727 683	Dow n
TAL1	491.24 6047	735.1651852	247.3269087	0.3364 23587	- 1.571649 24	0.0007 56776	0.0207 31604	Dow n
TAP	6.1063 18019	0.354139598	11.85849644	33.485 37276	5.065459 123	0.0357 86648	0.2540 55628	Up
TARP	51.817 23212	20.74996176	82.88450247	3.9944 41215	1.997993 698	0.0035 54683	0.0586 48091	Up
TARSL	120.39	43.78095165	197.0187264	4.5001	2.169957	0.0001	0.0073	Up

2	9839			01506	544	66398	21106	
TAT	145.66 29783	13.68595061	277.640006	20.286 49773	4.342447 914	0.0069 5756	0.0925 69328	Up
TBC1D 14	2986.3 26494	1977.129926	3995.523063	2.0208 70257	1.014976 702	0.0171 48021	0.1671 16779	Up
TBC1D 2B	1091.6 0136	1472.756897	710.4458243	0.4823 91782	- 1.051722 76	0.0300 90006	0.2317 64993	Down
TBC1D 4	962.43 15589	1486.701542	438.161576	0.2947 20604	- 1.762580 17	0.0002 77511	0.0105 61225	Down
TBC1D 8B	491.81 79468	745.1691868	238.4667068	0.3200 16865	- 1.643780 16	0.0037 99822	0.0612 55568	Down
TBX1	52.222 75374	93.80993648	10.635571	0.1133 73608	- 3.140843 25	5.35E- 06	0.0005 21768	Down
TBX15	451.12 30808	799.7670556	102.4791059	0.1281 36193	- 2.964250 06	0.0005 73482	0.0170 20448	Down
TBX18	121.53 92354	226.0107122	17.0677586	0.0755 17476	- 3.727045 64	0.0060 40371	0.0844 01429	Down
TBX2	252.17 46655	373.0745274	131.2748036	0.3518 72867	- 1.506873 82	0.0081 43289	0.1026 96151	Down
TBX20	15.325 40207	29.71300746	0.937796677	0.0315 61823	- 4.985675 66	0.0037 02847	0.0600 68039	Down
TBX21	61.547 74754	34.13014692	88.96534816	2.6066 5002	1.382196 894	0.0264 38081	0.2139 59865	Up
TBXA2 R	146.63 74601	217.6938477	75.58107239	0.3471 89749	- 1.526203 74	0.0044 75575	0.0688 24856	Down
TCF4	3031.3 09271	4173.180966	1889.437577	0.4527 57164	- 1.143190 63	0.0120 06028	0.1333 95784	Down
TCIRG1	1510.5 13509	898.8400914	2122.186927	2.3610 28337	1.239415 357	0.0379 065	0.2626 37007	Up
TDRKH	64.185 57118	22.41518793	105.9559544	4.7269 71497	2.240916 165	0.0017 86946	0.0369 66425	Up
TDRP	336.43 28427	185.0095478	487.8561376	2.6369 24113	1.398856 053	0.0087 49591	0.1084 0239	Up
TEAD4	127.20	196.6070309	57.80831623	0.2940	-	0.0108	0.1243	Down

	76736			2975	1.76596596	11449	66846	n
TEKT4	5.4369 14299	0.642863606	10.23096499	15.914 67444	3.992285 739	0.0444 92646	0.2863 02849	Up
TENM4	227.94 48423	326.1203319	129.7693527	0.3979 18621	- 1.329454 68	0.0415 75292	0.2747 1674	Down
TERT	61.576 38156	15.43019822	107.7225649	6.9812 81988	2.803491 986	0.0009 12666	0.0237 86942	Up
TEX101	11.661 1664	0.309818372	23.01251444	74.277 4364	6.214852 118	0.0002 64689	0.0101 80638	Up
TEX26	39.523 86531	79.04773062	0	0	#NAME ?	5.03E- 08	1.32E- 05	Down
TF	90.170 77084	170.4823728	9.859168843	0.0578 31016	- 4.112012 74	1.40E- 08	5.24E- 06	Down
TFAP2 A	1315.9 87227	502.4597307	2129.514723	4.2381 79883	2.083444 822	5.39E- 05	0.0031 99928	Up
TFAP2B	299.57 50284	39.05209192	560.0979649	14.342 32937	3.842207 449	7.07E- 09	2.97E- 06	Up
TFAP4	136.69 06756	66.33257591	207.0487754	3.1213 73963	1.642181 213	0.0017 58114	0.0367 06729	Up
TFPI	134.00 43024	229.3812158	38.62738904	0.1683 98223	- 2.570051 18	2.28E- 05	0.0016 4923	Down
TFPI2	2640.3 89324	4178.751368	1102.027281	0.2637 21668	- 1.922911 98	0.0422 31714	0.2771 25457	Down
TFRC	217.69 2427	298.1795191	137.2053349	0.4601 4339	- 1.119844 59	0.0379 59541	0.2626 37007	Down
TGFA	410.31 33624	121.4930782	699.1336466	5.7545 14223	2.524694 146	0.0119 47695	0.1331 56085	Up
TGFBII 1	2440.8 92427	3885.067461	996.7173929	0.2565 50859	- 1.962683 24	0.0025 81475	0.0472 76381	Down
TGFB3	1277.2 33275	2249.198965	305.2675846	0.1357 22801	- 2.881264 98	0.0420 19277	0.2767 38132	Down
TGM7	21.637 87601	3.876143501	39.39960852	10.164 64135	3.345487 407	0.0273 23719	0.2182 90946	Up
THBD	1942.6 46127	3596.995978	288.2962752	0.0801 49179	- 3.641168 44	9.45E- 05	0.0048 27061	Down

THBS2	2568.2 45675	4939.451562	197.0397885	0.0398 91026	- 4.647791 98	3.72E- 13	4.79E- 10	Dow n
THBS3	1784.1 58147	3412.001132	156.3151614	0.0458 13338	- 4.448088 51	1.12E- 06	0.0001 60114	Dow n
THEM6	62.451 51032	28.77566463	96.12735601	3.3405 78133	1.740097 802	0.0106 09251	0.1228 32337	Up
THPO	143.87 4479	243.60949	44.13946796	0.1811 89444	- 2.464429 19	0.0241 07748	0.2035 95346	Dow n
THRSP	168.05 1809	305.063297	31.04032094	0.1017 50428	- 3.296893 24	0.0228 47577	0.1971 40861	Dow n
THSD1	455.29 3655	650.8203747	259.7669352	0.3991 37681	- 1.325041 61	0.0009 20219	0.0238 84644	Dow n
THSD4	68.931 57202	123.72628	14.13686402	0.1142 59186	- 3.129617 94	0.0076 84642	0.0990 87383	Dow n
THSD7 A	51.787 36002	72.50487462	31.06984543	0.4285 2078	- 1.222562 93	0.0493 03583	0.3030 20077	Dow n
THY1	9913.2 68984	15707.04684	4119.491125	0.2622 70251	- 1.930873 92	3.78E- 05	0.0024 89362	Dow n
TIE1	1313.0 16748	1814.491862	811.5416334	0.4472 55593	- 1.160828 57	0.0096 12028	0.1153 301	Dow n
TIMD4	158.45 35077	94.52092238	222.3860931	2.3527 71085	1.234360 959	0.0319 13963	0.2396 91518	Up
TIMP1	5168.4 89632	9198.580349	1138.398915	0.1237 5811	- 3.014405 03	1.45E- 07	3.23E- 05	Dow n
TIMP2	4620.7 98014	8488.462738	753.1332905	0.0887 24344	- 3.494526 18	1.24E- 06	0.0001 70906	Dow n
TJP3	1556.5 09852	691.4355824	2421.584122	3.5022 55573	1.808284 367	0.0010 65675	0.0265 15472	Up
TLL1	184.74 90853	291.7278233	77.77034737	0.2665 85293	- 1.907330 9	0.0001 79848	0.0077 09084	Dow n
TLL2	111.30 55141	216.7914974	5.819530855	0.0268 43907	- 5.219261	0.0419 04018	0.2762 02063	Dow n

					51			
TLN1	15732.85308	21699.26049	9766.445662	0.450081959	-1.15174036	0.013547169	0.144345765	Down
TLR6	311.534545	201.7063488	421.3627412	2.08899097	1.062806256	0.048795227	0.301857717	Up
TLR7	144.064689	85.34401427	202.7853637	2.376093572	1.248591651	0.027783297	0.220300173	Up
TLR9	31.46208578	14.48520435	48.4389672	3.344030641	1.741588067	0.031744391	0.239096895	Up
TM4SF5	46.08461166	15.81652487	76.35269844	4.827400396	2.271246492	0.004509024	0.06922184	Up
TM6SF1	346.1001827	497.737452	194.4629134	0.390693753	-1.35588991	0.032541569	0.242405147	Down
TMC4	1119.302549	451.6286845	1786.976413	3.956738077	1.984311567	2.31E-05	0.001668658	Up
TMC8	229.4175028	139.9874208	318.8475849	2.277687404	1.187569761	0.020998287	0.188401543	Up
TMCC3	349.6974856	130.6947529	568.7002182	4.351362281	2.121467136	7.49E-05	0.004058408	Up
TMED3	1438.80896	2090.449256	787.1686644	0.376554782	-1.40906833	0.005165039	0.075965342	Down
TMEM100	299.8402813	491.2741222	108.4064405	0.220663853	-2.18007778	0.000195295	0.008211945	Down
TMEM102	111.0839784	29.95056401	192.2173928	6.417822141	2.682083808	8.86E-06	0.000774154	Up
TMEM116	89.99982113	20.32083511	159.6788072	7.857886071	2.974141251	5.94E-06	0.000569802	Up
TMEM119	959.7398292	1618.194502	301.2851561	0.186185997	-2.42518353	0.000236294	0.009535793	Down
TMEM125	457.0356354	127.756658	786.3146129	6.154783831	2.621708187	0.030364387	0.233181432	Up
TMEM132C	47.21265058	8.041441217	86.38385994	10.74233556	3.425235788	0.002579373	0.047276381	Up
TMEM136	164.5753693	269.1036878	60.04705083	0.223137228	-2.16399687	0.026826262	0.215787662	Down
TMEM139	66.5361949	25.52872934	107.5436605	4.212652304	2.074728846	0.035255556	0.252571472	Up
TMEM1	143.89	56.22635669	231.5733189	4.1185	2.042150	0.0002	0.0084	Up

44	98378			90151	568	0198	10137	
TMEM1 64	2440.6 65451	1559.801924	3321.528979	2.1294 55624	1.090484 665	0.0298 63011	0.2308 04991	Up
TMEM1 7	234.36 97459	322.2329642	146.5065275	0.4546 60273	- 1.137139 14	0.0200 75165	0.1838 29071	Down
TMEM1 76A	593.09 53032	191.2632435	994.9273628	5.2018 74362	2.379031 555	8.61E- 07	0.0001 35077	Up
TMEM1 76B	758.30 8333	387.0606212	1129.556045	2.9182 92337	1.545124 411	0.0010 65347	0.0265 15472	Up
TMEM1 84A	142.33 48079	31.15234397	253.5172718	8.1379 83839	3.024671 415	3.62E- 07	6.51E- 05	Up
TMEM1 87	143.14 02571	75.41213658	210.8683775	2.7962 12746	1.483474 131	0.0096 28565	0.1153 318	Up
TMEM1 91C	11.967 627	2.78836535	21.14688865	7.5839 73402	2.922953 905	0.0334 65905	0.2453 03316	Up
TMEM2 00B	419.38 03142	599.6089707	239.1516578	0.3988 4603	- 1.326096 18	0.0170 38502	0.1663 19009	Down
TMEM2 10	6.2531 94126	0	12.50638825	Inf	Inf	0.0065 90665	0.0893 90233	Up
TMEM2 29B	207.22 39536	129.7122035	284.7357036	2.1951 34273	1.134309 19	0.0352 94215	0.2526 10252	Up
TMEM2 33	38.920 75757	0.309818372	77.53169676	250.24 88675	7.967219 73	0.0134 4067	0.1436 3758	Up
TMEM2 45	222.04 19269	338.1136376	105.9702161	0.3134 15977	- 1.673849 37	0.0435 56594	0.2824 58939	Down
TMEM2 55A	74.895 36198	143.5789427	6.211781249	0.0432 63874	- 4.530693 34	3.19E- 10	2.30E- 07	Down
TMEM3 0B	722.50 30097	366.7544024	1078.251617	2.9399 82751	1.555807 691	0.0014 68146	0.0327 36573	Up
TMEM4 5B	168.37 01673	9.263455129	327.4768794	35.351 48331	5.143698 845	3.68E- 16	1.33E- 12	Up
TMEM4 7	299.32 66399	535.660487	62.99279285	0.1175 98356	- 3.088060 2	0.0001 32123	0.0062 18686	Down
TMEM5 5A	45.862 8054	66.19920057	25.52641024	0.3855 99977	- 1.374823 13	0.0327 52897	0.2425 90527	Down
TMEM5 9L	1018.4 08427	1815.123678	221.6931767	0.1221 36678	- 3.033431 58	0.0274 10951	0.2185 00286	Down

TMEM6 3C	37.780 1624	5.941962989	69.61836182	11.716 39102	3.550456 342	0.0089 93246	0.1103 5997	Up
TMEM6 5	322.80 33008	519.5595416	126.0470599	0.2426 03686	- 2.043326 62	0.0008 14373	0.0217 95968	Down
TMEM7 9	201.16 04322	70.1093464	332.2115179	4.7384 76893	2.244423 403	0.0005 94408	0.0174 63386	Up
TMOD1	353.41 20072	642.1579684	64.66604605	0.1007 0115	- 3.311847 93	0.0053 92167	0.0780 65249	Down
TMOD2	383.41 66824	666.5351685	100.2981963	0.1504 76976	- 2.732385 34	0.0002 58937	0.0100 02082	Down
TMPRS S2	1099.9 55102	224.8832339	1975.02697	8.7824 55395	3.134624 344	3.81E- 09	1.86E- 06	Up
TMPRS S4	47.534 47824	1.572318722	93.49663775	59.464 17633	5.893948 886	5.03E- 10	3.49E- 07	Up
TMTC1	202.13 62571	322.397391	81.87512312	0.2539 57152	- 1.977342 99	0.0027 0321	0.0487 57111	Down
TMTC3	641.27 98884	903.9583312	378.6014455	0.4188 26214	- 1.255576 35	0.0129 37256	0.1407 19708	Down
TMX4	1472.3 55567	2043.652451	901.0586832	0.4409 06027	- 1.181456 9	0.0089 44447	0.1098 35862	Down
TNC	7882.1 4445	15441.72924	322.5596578	0.0208 8883	- 5.581124 5	0.0490 03419	0.3025 85691	Down
TNF	74.325 27495	24.92421967	123.7263302	4.9641 00456	2.311532 311	0.0003 49264	0.0124 33254	Up
TNFAIP 6	343.62 01877	658.0946484	29.14572692	0.0442 88047	- 4.496938 8	9.01E- 05	0.0046 4414	Down
TNFAIP 8L3	469.04 18876	889.8200118	48.26376348	0.0542 39917	- 4.204501 22	0.0001 68689	0.0073 85877	Down
TNFRS F12A	1024.3 42678	1704.002655	344.6827006	0.2022 78265	- 2.305586 79	0.0492 12116	0.3030 20077	Down
TNFRS F19	403.98 99102	225.5225874	582.457233	2.5827 00207	1.368880 189	0.0272 50156	0.2178 92535	Up
TNFRS F21	3764.1 62491	1558.757359	5969.567624	3.8296 96515	1.937230 07	0.0069 66661	0.0925 78231	Up

TNFSF1 1	143.24 29664	5.282270013	281.2036628	53.235 38215	5.734313 527	8.38E- 05	0.0044 07022	Up
TNFSF1 2	519.60 38161	726.8794585	312.3281737	0.4296 83588	- 1.218653 42	0.0441 87266	0.2847 78169	Dow n
TNFSF1 3B	63.938 19092	34.96989958	92.90648226	2.6567 55764	1.409665 607	0.0246 47814	0.2059 38826	Up
TNFSF1 8	71.129 04978	134.8857272	7.372372329	0.0546 5643	- 4.193464 96	0.0006 32224	0.0182 47504	Dow n
TNK1	331.18 20195	126.4017795	535.9622595	4.2401 48056	2.084114 641	4.15E- 05	0.0026 4502	Up
TNMD	10.508 49007	21.01698013	0	0	#NAME ?	0.0002 73855	0.0104 4412	Dow n
TNS1	7951.9 32333	13696.52496	2207.339702	0.1611 60565	- 2.633429 33	1.30E- 07	3.00E- 05	Dow n
TNXB	7446.6 4249	11697.08064	3196.204336	0.2732 48038	- 1.871716 96	8.14E- 06	0.0007 25474	Dow n
TOP1M T	41.198 8653	12.33627949	70.06145111	5.6793 01539	2.505713 513	0.0016 2946	0.0351 60072	Up
TOX3	45.807 91227	20.35705655	71.258768	3.5004 45549	1.807538 565	0.0062 60149	0.0865 00274	Up
TP53I11	304.14 2026	428.1014052	180.1826467	0.4208 87772	- 1.248492 5	0.0067 28837	0.0904 56371	Dow n
TP53IN P2	673.61 74263	994.562963	352.6718896	0.3545 99862	- 1.495736 12	0.0324 97639	0.2424 05147	Dow n
TP63	556.34 1505	280.9476648	831.7353452	2.9604 63636	1.565823 133	0.0400 22767	0.2700 28158	Up
TP73	124.70 55939	62.16063156	187.2505563	3.0123 6573	1.590896 938	0.0183 19894	0.1742 99877	Up
TPBG	1084.5 2063	1961.417007	207.6242538	0.1058 54213	- 3.239849 4	0.0465 07652	0.2935 44975	Dow n
TPI1	4094.8 46664	5731.893894	2457.799434	0.4287 93603	- 1.221644 71	0.0145 20128	0.1511 81121	Dow n
TPM1	16606. 41798	27271.3514	5941.484559	0.2178 65425	- 2.198490 84	0.0306 47563	0.2347 56432	Dow n
TPM2	29634.	56157.90922	3111.513377	0.0554	-	0.0144	0.1508	Dow

	7113			06503	4.173800 87	57748	40549	n
TPM4	11345. 83142	16760.90119	5930.76164	0.3538 45033	- 1.498810 43	0.0013 50458	0.0309 14857	Dow n
TPO	56.630 02184	4.383910933	108.8761327	24.835 38886	4.634325 431	0.0043 69981	0.0675 58475	Up
TPX2	316.66 73244	438.029261	195.3053878	0.4458 72925	- 1.165295 5	0.0195 01907	0.1809 64457	Dow n
TRABD 2B	739.93 76192	1148.14111	331.734128	0.2889 31495	- 1.791200 62	0.0130 32641	0.1410 29279	Dow n
TRAF2	1179.2 06534	712.6000556	1645.813013	2.3095 88668	1.207635 934	0.0047 97148	0.0721 73265	Up
TRAF4	1133.5 35163	663.7139474	1603.356379	2.4157 34045	1.272461 633	0.0078 69436	0.1008 21561	Up
TRAF5	328.84 06673	514.0925153	143.5888193	0.2793 05407	- 1.840084 59	0.0493 19083	0.3030 20077	Dow n
TRAK2	376.47 57544	529.7581764	223.1933324	0.4213 11727	- 1.247040 02	0.0073 00265	0.0953 58061	Dow n
TRAM2	2065.7 15355	3131.335536	1000.095175	0.3193 82948	- 1.646640 81	0.0159 88185	0.1598 72987	Dow n
TRAPP C6A	446.13 70308	210.9725477	681.3015138	3.2293 37282	1.691238 128	0.0006 21049	0.0179 5369	Up
TRAT1	63.455 66607	36.81730545	90.0940267	2.4470 56503	1.291047 414	0.0379 06785	0.2626 37007	Up
TREM2	103.74 77224	20.39881507	187.0966298	9.1719 3617	3.197226 315	4.08E- 07	7.07E- 05	Up
TRERF 1	332.46 86852	464.865884	200.0714863	0.4303 85393	- 1.216298 98	0.0201 14173	0.1839 9572	Dow n
TRIM14	135.26 07646	60.03667293	210.4848563	3.5059 38056	1.809800 506	0.0007 49432	0.0206 71255	Up
TRIM16	371.81 22342	501.7366024	241.887866	0.4821 01295	- 1.052591 79	0.0332 72551	0.2444 82093	Dow n
TRIM29	803.20 40917	308.4195827	1297.988601	4.2085 1552	2.073311 438	0.0011 27439	0.0274 50006	Up
TRIM36	202.33 1042	131.4918867	273.1701972	2.0774 68079	1.054826 31	0.0379 09365	0.2626 37007	Up

TRIM47	819.63 58061	1130.901734	508.3698781	0.4495 26128	- 1.153523 12	0.0110 25394	0.1259 55204	Dow n
TRIOB P	1175.3 65933	1596.461539	754.2703277	0.4724 63827	- 1.081724 22	0.0237 99767	0.2015 60566	Dow n
TRNP1	98.256 71091	154.5238111	41.98961073	0.2717 35537	- 1.879724 85	0.0007 81861	0.0212 0436	Dow n
TRPC1	228.06 01834	312.1291886	143.9911781	0.4613 1917	- 1.116162 85	0.0279 51096	0.2210 47711	Dow n
TRPC6	241.68 83927	344.6215905	138.7551949	0.4026 30592	- 1.312471 3	0.0434 00289	0.2819 87349	Dow n
TRPM2	647.88 43971	367.6495255	928.1192686	2.5244 67473	1.335979 089	0.0052 0903	0.0763 16805	Up
TRPM3	88.227 23497	134.5966921	41.85777785	0.3109 86676	- 1.685075 32	0.0073 53135	0.0958 40468	Dow n
TRPM6	107.04 19485	157.6336988	56.45019825	0.3581 09964	- 1.481525 43	0.0204 14501	0.1853 33262	Dow n
TRPV6	197.24 11789	20.70350804	373.7788497	18.053 88966	4.174237 79	0.0011 92399	0.0284 51959	Up
TSC22 D2	897.96 00435	1198.735665	597.1844222	0.4981 78572	- 1.005265 12	0.0293 30408	0.2284 50443	Dow n
TSHZ3	269.54 62479	426.7152186	112.3772772	0.2633 54275	- 1.924923 21	0.0032 07025	0.0549 3972	Dow n
TSPAN 1	190.86 49785	6.023777742	375.7061793	62.370 52484	5.962792 494	7.90E- 09	3.24E- 06	Up
TSPAN 18	317.10 69504	463.5991312	170.6147697	0.3680 22195	- 1.442135 32	0.0024 6453	0.0459 07943	Dow n
TSPAN 19	129.50 70115	23.97963748	235.0343855	9.8014 15294	3.292990 085	9.09E- 08	2.27E- 05	Up
TSPAN 2	304.86 02589	529.3847681	80.3357498	0.1517 53044	- 2.720202 64	0.0471 28306	0.2959 31755	Dow n
TSPAN 3	3039.5 33261	1658.904562	4420.161959	2.6645 06481	1.413868 342	0.0483 39097	0.2999 61809	Up
TSPAN	130.89	78.23886834	183.5540873	2.3460	1.230247	0.0185	0.1757	Up

33	64778			72881	832	33837	7912	
TSPYL 2	723.18 50713	451.7116149	994.6585277	2.2019 76869	1.138799 314	0.0134 01922	0.1435 61328	Up
TSPYL 4	1312.0 80556	787.0841966	1837.076915	2.3340 28459	1.222822 152	0.0088 61363	0.1092 61882	Up
TST	1252.5 60898	473.5092045	2031.612592	4.2905 4509	2.101160 946	0.0125 0764	0.1372 45698	Up
TSTD1	725.37 30079	439.5466238	1011.199392	2.3005 50925	1.201979 392	0.0130 28744	0.1410 29279	Up
TTC12	46.188 3534	13.18008507	79.19662174	6.0088 09604	2.587079 209	0.0002 46302	0.0097 6492	Up
TTC21 A	220.01 01835	137.0364674	302.9838997	2.2109 72784	1.144681 266	0.0127 14312	0.1388 33817	Up
TTC28	996.44 5105	1478.507457	514.3827532	0.3479 0677	- 1.523227 34	0.0013 40969	0.0307 36638	Down
TTC31	117.63 38676	72.0337403	163.2339949	2.2660 76899	1.180196 82	0.0279 36792	0.2210 31487	Up
TTC39 A	600.16 40003	279.3482841	920.9797165	3.2968 86965	1.721104 425	0.0139 59994	0.1469 76942	Up
TTC39 C	194.37 75663	121.8139893	266.9411434	2.1913 83313	1.131841 86	0.0272 06752	0.2176 41954	Up
TTC6	31.251 51504	2.950953379	59.55207671	20.180 62269	4.334898 785	0.0001 79917	0.0077 09084	Up
TTLL10	51.248 9909	14.81695897	87.68102284	5.9176 12584	2.565015 249	0.0003 05034	0.0113 45364	Up
TTLL7	296.60 4596	493.8397593	99.36943272	0.2012 17968	- 2.313168 96	1.98E- 06	0.0002 44704	Down
TUBA1 A	3761.1 99743	5266.898268	2255.501218	0.4282 40893	- 1.223505 53	0.0150 94818	0.1550 51755	Down
TUBA1 D	29.725 99049	7.731192638	51.72078834	6.6898 84828	2.741981 374	0.0015 29889	0.0335 73797	Up
TUBA8	60.086 16368	29.65312894	90.51919841	3.0526 01922	1.610039 466	0.0361 88919	0.2558 04043	Up
TUBB	6538.1 18379	9831.875518	3244.361241	0.3299 83962	- 1.599532 19	0.0011 34997	0.0275 93282	Down
TUBB6	2689.3 66889	4344.789675	1033.944102	0.2379 73338	- 2.071128 15	0.0187 26874	0.1764 65324	Down
TUBD1	146.70 99587	80.72017762	212.6997399	2.6350 25667	1.397817 015	0.0124 93711	0.1372 45698	Up

TULP2	301.43 63874	198.43898	404.4337949	2.0380 76365	1.027208 109	0.0226 36538	0.1962 23216	Up
TUSC5	749.98 96977	1496.780919	3.198476266	0.0021 36903	- 8.870262 58	0.0101 24686	0.1193 72037	Down
TWIST 1	313.71 0341	502.5594063	124.8612756	0.2484 50778	- 2.008968 03	0.0171 01215	0.1668 40894	Down
TXK	84.215 81598	36.60740328	131.8242287	3.6010 26483	1.848408 209	0.0020 93118	0.0410 84536	Up
TXNIP	25533. 19916	15499.80774	35566.59059	2.2946 47211	1.198272 364	0.0053 48216	0.0776 78321	Up
TYRO3	283.29 80793	178.2900862	388.3060724	2.1779 45396	1.122967 784	0.0237 85486	0.2015 34232	Up
UBALD 2	959.17 8477	551.5699967	1366.786957	2.4779 93665	1.309172 499	0.0137 62277	0.1455 20346	Up
UBD	435.05 64585	243.0340879	627.0788291	2.5802 09363	1.367488 133	0.0077 54602	0.0997 0439	Up
UGGT2	254.53 03764	470.1077047	38.95304809	0.0828 59838	- 3.593183 2	8.71E- 07	0.0001 35398	Down
UGT8	175.74 15381	41.48740869	309.9956675	7.4720 42175	2.901502 598	0.0213 84957	0.1898 44113	Up
UHKM 1	71.784 41975	107.2259068	36.34293269	0.3389 37984	- 1.560906 77	0.0243 27566	0.2044 53029	Down
UMOD L1	17.445 96907	34.89193815	0	0	#NAME ?	2.56E- 05	0.0018 1352	Down
UNC93 B1	1294.1 66331	856.299218	1732.033445	2.0226 96516	1.016279 875	0.0327 04851	0.2425 27832	Up
UPP1	74.209 82934	117.2379155	31.18174317	0.2659 69785	- 1.910665 73	0.0012 57424	0.0295 34737	Down
USH1C	62.928 53977	11.59263927	114.2644403	9.8566 37271	3.301095 535	0.0250 12172	0.2071 29095	Up
USP2	214.16 9142	105.4102268	322.9280571	3.0635 36309	1.615197 95	0.0036 68265	0.0597 21877	Up
USP35	123.38 01739	176.8126635	69.94768443	0.3956 03364	- 1.337873 4	0.0232 83833	0.1991 30023	Down
USP43	181.16 4903	83.25046626	279.0793398	3.3522 85607	1.745145 069	0.0007 50622	0.0206 72479	Up
USP44	58.690 62479	23.03482467	94.34642491	4.0958 16931	2.034151 233	0.0112 85837	0.1280 41015	Up

UST	453.08 43512	690.3436484	215.8250541	0.3126 34229	- 1.677452 35	0.0353 67716	0.2528 42381	Dow n
UVSSA	231.79 20919	332.8006536	130.7835302	0.3929 78586	- 1.347477 4	0.0096 2203	0.1153 301	Dow n
VASN	915.35 84609	1389.045116	441.6718061	0.3179 67934	- 1.653046 81	0.0009 82407	0.0250 6596	Dow n
VAV1	169.31 32701	108.2000699	230.4264704	2.1296 33286	1.090605 026	0.0268 31506	0.2157 87662	Up
VAV3	819.84 51621	361.6768457	1278.013479	3.5335 78369	1.821129 906	0.0001 16945	0.0056 55705	Up
VCAM1	1283.2 84888	1739.045023	827.524752	0.4758 50102	- 1.071420 91	0.0224 62556	0.1954 66493	Dow n
VCAN	6228.2 8485	11641.94999	814.619713	0.0699 72789	- 3.837062 19	0.0010 98904	0.0270 80775	Dow n
VCL	10803. 15785	17889.82119	3716.494513	0.2077 43525	- 2.267124 58	0.0041 81335	0.0653 61438	Dow n
VCPK MT	299.05 30861	149.5990482	448.507124	2.9980 61348	1.584029 905	0.0006 78628	0.0191 57709	Up
VEPH1	142.54 52575	42.23551351	242.8550014	5.7500 18912	2.523566 701	0.0109 49329	0.1255 15136	Up
VGLL1	14.004 31676	2.5250007	25.48363281	10.092 52505	3.335215 262	0.0043 14666	0.0669 12591	Up
VGLL3	2748.3 24531	5021.243891	475.4051719	0.0946 78765	- 3.400815 3	0.0080 07108	0.1020 77894	Dow n
VIL1	16.730 45379	6.755283799	26.70562378	3.9532 94128	1.983055 297	0.0398 5218	0.2696 40422	Up
VILL	97.228 39901	46.65780939	147.7989886	3.1677 22415	1.663445 919	0.0076 83048	0.0990 87383	Up
VIM	42980. 98052	66948.74563	19013.21541	0.2839 96589	- 1.816054 49	8.70E- 05	0.0045 20444	Dow n
VNN1	271.17 65647	151.3017119	391.0514175	2.5845 80257	1.369930 002	0.0040 56646	0.0644 7387	Up
VSIG1	10.539 58934	0.619636744	20.45954193	33.018 60665	5.045207 336	0.0012 12683	0.0288 21599	Up
VSNL1	127.44 85569	30.32432628	224.5727875	7.4056 97507	2.888635 622	0.0011 74499	0.0282 49053	Up

VSTM4	642.96 74756	1002.165011	283.7699398	0.2831 56902	- 1.820326 4	0.0384 03802	0.2643 13518	Dow n
VWA2	30.394 40002	49.4815233	11.30727673	0.2285 1513	- 2.129638 4	0.0313 24337	0.2369 22312	Dow n
VWA7	120.91 39693	31.36585031	210.4620883	6.7099 11775	2.746293 797	0.0005 09383	0.0157 74927	Up
WBP1	1436.4 08492	767.3012762	2105.515708	2.7440 53442	1.456308 579	0.0008 20356	0.0219 04736	Up
WBP5	86.731 88027	153.690668	19.77309253	0.1286 55128	- 2.958419 14	1.79E- 05	0.0013 62542	Dow n
WDR17	246.12 34635	366.0102607	126.2366662	0.3448 99255	- 1.535753 08	0.0234 66605	0.2000 3761	Dow n
WFDC1	1225.5 30753	2305.52666	145.5348456	0.0631 24339	- 3.985659 82	0.0065 28914	0.0890 21228	Dow n
WFDC2	239.64 64895	23.01946699	456.2735119	19.821 2023	4.308972 57	2.34E- 11	2.22E- 08	Up
WFIKK N2	83.977 88831	164.2412786	3.714498055	0.0226 16105	- 5.466505 68	0.0005 74275	0.0170 20448	Dow n
WIPF1	1306.2 21888	1886.483628	725.960148	0.3848 21865	- 1.377737 32	0.0119 80424	0.1333 21938	Dow n
WISP2	1085.9 52352	2025.361072	146.5436315	0.0723 54324	- 3.788776 95	0.0048 16898	0.0724 10025	Dow n
WISP3	59.297 89314	7.071499663	111.5242866	15.770 95269	3.979197 908	0.0025 2124	0.0466 46823	Up
WNK2	919.04 06118	335.4689928	1502.612231	4.4791 38945	2.163221 42	3.30E- 06	0.0003 65249	Up
WNK4	142.33 82414	65.35747794	219.3190048	3.3556 83416	1.746606 615	0.0016 80341	0.0357 871	Up
WNT10 A	50.683 98998	19.89018723	81.47779272	4.0963 81386	2.034350 041	0.0151 38142	0.1552 4556	Up
WNT2	70.072 20573	99.70951114	40.43490031	0.4055 27014	- 1.302130 07	0.0231 34503	0.1984 41893	Dow n
WNT2B	22.854 67217	41.42645769	4.282886636	0.1033 85297	- 3.273897 07	0.0003 88496	0.0133 57214	Dow n

WNT5B	117.39 70146	48.19088275	186.6031464	3.8721 67011	1.953141 179	0.0004 77359	0.0150 54346	Up
WNT8B	5.7183 60776	0	11.43672155	Inf	Inf	0.0326 80318	0.2425 27832	Up
WSCD2	62.924 50623	92.5189028	33.33010967	0.3602 51891	- 1.472922 09	0.0225 48775	0.1957 44636	Down
WTIP	427.41 70095	585.209902	269.624117	0.4607 30613	- 1.118004 63	0.0331 46092	0.2440 49939	Down
WWC1	1161.6 12795	488.697702	1834.527888	3.7539 11428	1.908394 611	7.38E- 05	0.0040 11515	Up
XCL2	57.513 80137	27.53316762	87.49443513	3.1777 83113	1.668020 663	0.0153 1606	0.1562 15935	Up
XG	1367.2 48154	2327.963177	406.5331315	0.1746 30396	- 2.517623 4	5.30E- 06	0.0005 19473	Down
XYLT1	823.35 07737	1464.194952	182.5065951	0.1246 46376	- 3.004087 15	9.76E- 09	3.91E- 06	Down
YDJC	45.053 36792	18.52947296	71.57726289	3.8628 87144	1.949679 529	0.0088 3781	0.1091 20642	Up
YOD1	34.536 72283	51.87952761	17.19391805	0.3314 20097	- 1.593267 01	0.0480 99234	0.2991 93823	Down
YWHA G	1571.8 847	2342.468595	801.3008046	0.3420 75367	- 1.547613 88	0.0013 32189	0.0306 91397	Down
YWHA Z	253.70 14214	358.8374861	148.5653566	0.4140 18497	- 1.272232 87	0.0130 64145	0.1412 00787	Down
ZAP70	1043.9 83163	362.0664654	1725.899862	4.7668 03961	2.253022 295	2.63E- 06	0.0003 0862	Up
ZBED6 CL	344.81 57297	187.8420658	501.7893937	2.6713 36644	1.417561 797	0.0045 95779	0.0700 78827	Up
ZBP1	144.42 07863	76.01086002	212.8307126	2.8000 04006	1.485428 891	0.0059 63592	0.0835 8759	Up
ZBTB2 0	65.203 90164	95.22736776	35.18043552	0.3694 36186	- 1.436602 91	0.0118 64706	0.1326 8905	Down
ZBTB3 7	41.469 77934	60.33075295	22.60880574	0.3747 47614	- 1.416008 8	0.0408 08661	0.2726 47198	Down
ZBTB4	357.96	211.3187996	504.6167187	2.3879	1.255766	0.0218	0.1917	Up

2	77592			40494	886	26354	8061	
ZC3H12 A	646.72 81832	400.6476458	892.8087206	2.2284 13745	1.156017 12	0.0137 00702	0.1449 82304	Up
ZCCHC 24	1173.5 05118	1781.091355	565.9188817	0.3177 37145	- 1.654094 34	0.0003 75411	0.0130 73448	Down
ZCWP W1	134.28 95799	87.3866069	181.1925529	2.0734 59072	1.052039 57	0.0271 07003	0.2170 36494	Up
ZDBF2	13.078 71044	24.93210738	1.225313489	0.0491 46006	- 4.346782 03	0.0120 13302	0.1333 95784	Down
ZDHHC 2	774.41 36143	1404.776557	144.0506719	0.1025 43477	- 3.285692 38	0.0004 66177	0.0148 31327	Down
ZEB1	1058.0 34474	1578.438085	537.6308625	0.3406 09409	- 1.553809 81	0.0288 34483	0.2261 50106	Down
ZEB2	124.97 48688	223.4807547	26.46898302	0.1184 39653	- 3.077775 93	0.0001 9671	0.0082 33078	Down
ZFP36	2803.1 92431	4382.036005	1224.348858	0.2794 01825	- 1.839586 65	0.0437 8166	0.2830 74325	Down
ZFPM2	226.69 01222	416.5346172	36.84562724	0.0884 57539	- 3.498871 08	0.0001 34955	0.0063 0688	Down
ZFR2	46.671 80052	15.9786827	77.36491835	4.8417 58223	2.275531 039	0.0387 68222	0.2654 04161	Up
ZFYVE 19	190.56 55006	100.1024164	281.0285849	2.8074 10602	1.489240 083	0.0029 93861	0.0523 31638	Up
ZHX3	1188.0 60713	1716.386864	659.7345632	0.3843 74046	- 1.379417 17	0.0015 63656	0.0341 9004	Down
ZIC2	7.1371 30356	14.27426071	0	0	#NAME ?	0.0036 09548	0.0591 93313	Down
ZMAT1	70.019 35079	38.32700189	101.7116997	2.6537 87009	1.408052 586	0.0159 12346	0.1594 43543	Up
ZMIZ2	1626.3 96566	957.6681445	2295.124988	2.3965 76519	1.260975 004	0.0040 52815	0.0644 7387	Up
ZNF114	11.437 55828	20.62108202	2.254034546	0.1093 07288	- 3.193538 5	0.0325 81148	0.2424 05147	Down
ZNF182	349.11 57665	208.662375	489.569158	2.3462 26329	1.230342 19	0.0220 88005	0.1935 14094	Up

ZNF232	9.1048 26952	1.595545584	16.61410832	10.412 80706	3.380287 135	0.0204 02708	0.1853 19459	Up
ZNF274	274.04 69911	158.6455924	389.4483898	2.4548 32712	1.295624 713	0.0092 39513	0.1119 76031	Up
ZNF286 A	458.73 84978	290.1210984	627.3558971	2.1623 93223	1.112628 896	0.0225 40434	0.1957 44636	Up
ZNF296	45.493 82569	22.94747284	68.04017853	2.9650 40159	1.568051 645	0.0369 14259	0.2594 06436	Up
ZNF32	346.48 97367	227.2289794	465.750494	2.0496 96722	1.035410 461	0.0219 2218	0.1924 95758	Up
ZNF367	144.12 66115	220.8423139	67.41090918	0.3052 44534	- 1.711962 63	0.0030 29379	0.0527 12105	Down
ZNF385 D	174.08 41759	345.9143172	2.254034546	0.0065 16164	- 7.261761 29	7.25E- 06	0.0006 63756	Down
ZNF423	395.06 32249	614.7297996	175.3966502	0.2853 23162	- 1.809331 23	0.0002 53887	0.0099 14059	Down
ZNF507	133.42 32427	184.843193	82.00329242	0.4436 37069	- 1.172548 18	0.0315 92345	0.2381 50572	Down
ZNF536	4.9692 52896	9.938505791	0	0	#NAME ?	0.0355 52346	0.2534 8453	Down
ZNF683	58.222 99379	19.06663414	97.37935344	5.1073 17459	2.352565 737	0.0003 21398	0.0117 3624	Up
ZNF750	228.18 83117	88.07307531	368.3035482	4.1817 95025	2.064122 348	0.0001 51938	0.0069 03794	Up
ZNF805	42.358 22334	64.85336424	19.86308244	0.3062 76824	- 1.707091 89	0.0414 03815	0.2743 57952	Down
ZPBP2	56.699 7363	25.45564417	87.94382842	3.4547 86994	1.788596 764	0.0047 82608	0.0721 73265	Up
ZSCAN 23	38.645 76585	19.75595147	57.53558024	2.9123 16338	1.542167 071	0.0407 53609	0.2725 37759	Up
ZYG11 B	994.79 17171	1349.777595	639.805839	0.4740 08341	- 1.077015 65	0.0249 14771	0.2069 2337	Down
ZYX	8716.9 01371	13131.05099	4302.751756	0.3276 77637	- 1.609650 88	0.0367 10339	0.2585 69019	Down

Table S5

id	base Mean	baseMean_contr ol_Sample_non-lactation	baseMean_case _Sample_mid-lactation	foldC hange	log2Fol dChang e	pval	padj	up_ dow n
A4GALT	878.72 22011	1417.37795	340.066452	0.2399 26444	- 2.05933 5916	0.0340 45717	0.3481 32981	Dow n
ABCA10	436.42 89572	618.02534	254.8325744	0.4123 33537	- 1.278116 288	0.0064 97939	0.1313 83818	Dow n
ABCA6	938.20 20769	1361.246031	515.1581233	0.3784 46006	- 1.40184 0614	0.0044 69013	0.1061 49878	Dow n
ABCA9	582.23 64997	870.1588436	294.3141557	0.3382 30379	- 1.56392 1849	0.0054 11981	0.1173 98861	Dow n
ABCB8	1809.7 21121	1027.224149	2592.218093	2.5235 17477	1.33543 6078	0.0221 53569	0.2734 30084	Up
ABCC11	55.724 16701	14.2369764	97.21135763	6.8280 90103	2.77148 2096	0.0004 90469	0.0256 39838	Up
ABCC9	941.78 93834	1517.13048	366.4482873	0.2415 4039	- 2.04966 3642	2.41E- 05	0.0030 7519	Dow n
ABCG4	24.327 36614	42.05241619	6.602316094	0.1570 02063	- 2.671144 579	0.0093 02695	0.1617 89515	Dow n
ABI3BP	3593.2 51695	6342.57494	843.9284499	0.1330 57703	- 2.90987 6066	7.36E- 06	0.0013 92975	Dow n
ABO	572.53 47485	265.6274317	879.4420654	3.3108 10408	1.72718 4398	0.0053 03511	0.1170 22127	Up
ACADSB	745.64 43015	1052.644565	438.6440379	0.4167 06695	- 1.26289 5815	0.0089 57798	0.1579 29484	Dow n
ACAN	224.55 89582	416.9129183	32.20499822	0.0772 46343	- 3.69438 9558	0.0024 76954	0.0738 69104	Dow n
ACAP3	1568.6 43982	2204.839142	932.4488224	0.4229 10137	- 1.24157 6955	0.0130 65476	0.2032 49527	Dow n
ACER1	10.851 86032	20.19512086	1.508599773	0.0747 01201	- 3.74272 4761	0.0410 59808	0.3847 36043	Dow n

ACKR1	954.07 69841	1361.044781	547.1091877	0.4019 7736	- 1.31481 3846	0.0392 33236	0.3778 55667	Down
ACKR2	103.61 37496	186.2729656	20.95453353	0.1124 93691	- 3.15208 3996	5.55E- 06	0.0011 73176	Down
ACKR3	2330.0 03542	4205.035391	454.9716934	0.1081 96876	- 3.20826 9249	5.32E- 07	0.0001 95152	Down
ACKR4	323.00 8962	590.9661285	55.05179545	0.0931 55585	- 3.42421 3922	0.0013 11831	0.0484 40758	Down
ACSBG1	75.620 25922	111.0436315	40.19688696	0.3619 91826	- 1.46597 0973	0.0089 02537	0.1577 14947	Down
ACSM3	72.283 96892	20.12347564	124.4444622	6.1840 44171	2.62855 0624	0.0001 11972	0.0091 94511	Up
ACSS1	3847.3 17994	2049.694139	5644.94185	2.7540 41075	1.46155 0077	0.0076 33187	0.1435 85359	Up
ACTA2	75101. 14361	127408.3369	22793.9503	0.1789 047	- 2.48273 6806	0.0314 40615	0.3329 77961	Down
ACTB	58796. 78976	80995.08194	36598.49758	0.4518 60739	- 1.14604 9884	0.0204 84172	0.2623 69556	Down
ACTC1	309.93 06532	619.8613064	0	0	#NAME ?	0.0332 92334	0.3434 13594	Down
ACTG2	76291. 11755	151127.8656	1454.369557	0.0096 23437	- 6.69923 1979	0.0013 50472	0.0492 60724	Down
ACY1	620.33 59631	307.6512868	933.0206395	3.0327 21394	1.60061 2969	0.0201 30618	0.2600 63861	Up
ADAM12	293.10 07365	511.5753979	74.62607515	0.1458 75027	- 2.77719 5169	0.0152 16424	0.2219 2778	Down
ADAM19	1627.9 82044	2597.843121	658.1209665	0.2533 33606	- 1.98088 9622	0.0015 97407	0.0556 70856	Down
ADAM23	48.005 31266	75.6787841	20.33184121	0.2686 59724	- 1.89614 8041	0.0029 25638	0.0837 76682	Down
ADAM33	3016.5 17527	5414.338343	618.6967109	0.1142 7005	- 3.12948 0775	0.0001 41437	0.0107 774	Down

ADAMTS 1	3772.8 55774	6343.11137	1202.600179	0.1895 91528	- 2.39903 3594	0.0494 01407	0.4267 31044	Dow n
ADAMTS 10	1340.9 97221	1949.612674	732.3817693	0.3756 5501	- 1.41251 975	0.0018 74637	0.0611 18937	Dow n
ADAMTS 12	309.89 60265	553.7096994	66.08235357	0.1193 44764	- 3.06679 2819	3.37E- 08	2.02E- 05	Dow n
ADAMTS 14	69.955 61787	127.0864978	12.82473794	0.1009 13458	- 3.30880 9509	1.14E- 05	0.0017 77323	Dow n
ADAMTS 15	317.91 84397	507.5949277	128.2419517	0.2526 46244	- 1.98480 9365	0.0003 0862	0.0183 16561	Dow n
ADAMTS 17	899.54 51898	1642.458619	156.6317607	0.0953 64205	- 3.39040 8336	0.0112 84623	0.1856 64565	Dow n
ADAMTS 2	5016.9 67385	9713.841776	320.0929936	0.0329 52255	- 4.92347 8983	0.0001 34691	0.0104 40299	Dow n
ADAMTS 4	665.55 67061	1026.529051	304.5843612	0.2967 12851	- 1.75286 0682	0.0028 77016	0.0826 47577	Dow n
ADAMTS 5	342.36 90494	587.2813525	97.45674624	0.1659 45583	- 2.59121 7868	9.08E- 07	0.0002 91826	Dow n
ADAMTS 6	222.61 16307	388.7435286	56.47973276	0.1452 87905	- 2.78301 3491	0.0001 02736	0.0086 73741	Dow n
ADAMTS L1	342.79 01883	610.3159724	75.26440409	0.1233 20391	- 3.01951 6731	0.0138 56525	0.2095 7266	Dow n
ADAMTS L2	463.86 36124	768.4856306	159.2415942	0.2072 14797	- 2.27080 1065	0.0007 60555	0.0346 25483	Dow n
ADAMTS L5	1633.8 615	2550.182367	717.5406335	0.2813 68361	- 1.82946 7982	0.0008 57412	0.0373 33774	Dow n
ADCK3	1845.9 99699	1044.884982	2647.114415	2.5334 02683	1.34107 6411	0.0156 04766	0.2251 50029	Up
ADCY2	28.654 95714	47.98140678	9.328507505	0.1944 19216	- 2.36275 7273	0.0366 8698	0.3638 60585	Dow n

ADCY5	521.43 70078	821.2447351	221.6292806	0.2698 69956	- 1.88966 3721	0.0200 79961	0.2597 82693	Down
ADHFE1	155.61 63325	217.0370906	94.1955744	0.4340 06806	- 1.20421 0429	0.0406 77578	0.3832 503	Down
ADM	6370.3 37516	11622.37473	1118.300297	0.0962 19604	- 3.37752 5324	0.0456 61072	0.4089 28717	Down
ADORA2 A	91.608 70103	49.36081085	133.8565912	2.7117 98872	1.43925 0181	0.0184 88562	0.2472 0819	Up
ADORA2 B	484.27 11381	253.5666628	714.9756134	2.8196 75132	1.49552 8953	0.0068 61647	0.1351 51143	Up
ADRA1B	30.026 43238	55.55550607	4.497358695	0.0809 52529	- 3.62678 0045	0.0079 90317	0.1466 20385	Down
ADRA2A	110.56 11649	171.6277239	49.49460581	0.2883 83512	- 1.79393 9411	0.0042 10078	0.1024 4903	Down
ADRB1	43.700 73492	72.39735078	15.00411905	0.2072 46797	- 2.27057 8291	0.0379 22592	0.3704 26665	Down
AEBP1	21976. 36372	34746.43036	9206.297072	0.2649 56629	- 1.91617 187	0.0002 16003	0.0147 34886	Down
AFF2	88.103 45195	149.3867512	26.82015272	0.1795 35016	- 2.47766 2847	0.0387 48919	0.3750 38649	Down
AFF3	874.57 31203	1185.049073	564.0971681	0.4760 11653	- 1.07093 1202	0.0266 16116	0.3023 61097	Down
AGTR1	867.43 24588	1321.92582	412.9390979	0.3123 76906	- 1.67864 0294	0.0354 96696	0.3570 33454	Down
AIFM3	30.888 54727	10.14726927	51.62982527	5.0880 51171	2.347113 18	0.0065 23797	0.1314 91244	Up
AIM1L	107.71 29993	37.26741291	178.1585857	4.7805 46107	2.25717 5434	0.0087 87219	0.1566 11054	Up
AK1	382.55 1061	647.0417692	118.0603527	0.1824 61718	- 2.45433 429	0.0001 15957	0.0093 50915	Down
AK4	629.08 63992	867.4385528	390.7342457	0.4504 46022	- 1.15057 3859	0.0357 53137	0.3587 88314	Down

AK5	130.34 79327	187.1788473	73.51701803	0.3927 63494	- 1.34826 7253	0.0053 91689	0.1173 83463	Dow n
AKAP12	2725.2 04292	4565.497857	884.9107276	0.1938 2568	- 2.36716 8367	0.0001 26632	0.0101 21004	Dow n
ALDH1A 1	2726.7 50141	4014.712881	1438.787401	0.3583 78655	- 1.48044 3383	0.0440 04427	0.4004 71465	Dow n
ALDH1A 3	945.86 76173	1374.93716	516.7980749	0.3758 70323	- 1.411693 082	0.0251 93888	0.2934 33739	Dow n
ALDH3B1	824.48 15372	1275.598203	373.3648715	0.2926 97866	- 1.77251 5869	0.0007 08824	0.0329 37442	Dow n
ALOX12E	140.85 71065	14.36504069	267.3491722	18.611 09745	4.21809 1225	1.20E- 05	0.0018 47436	Up
ALOX15B	2268.9 55389	148.0526568	4389.858122	29.650 65414	4.88999 2028	0.0039 90598	0.0998 09354	Up
ALPK2	15.172 99639	26.65043589	3.695556897	0.1386 67784	- 2.85029 5439	0.0222 81461	0.2746 34033	Dow n
ALPK3	1136.4 77548	2023.170297	249.7847988	0.1234 62073	- 3.01786 0175	0.0034 54598	0.0913 58877	Dow n
ALX3	30.545 3565	48.50131816	12.58939484	0.2595 68097	- 1.94581 5021	0.0083 69235	0.1511 08391	Dow n
AMPH	263.62 11565	499.7961458	27.44616718	0.0549 14724	- 4.18666 3178	0.0012 3435	0.0464 37889	Dow n
ANGPT4	259.28 21304	406.7982845	111.7659762	0.2747 45446	- 1.86383 2525	0.0011 73292	0.0449 87877	Dow n
ANGPTL1	810.86 28746	1379.598643	242.1271061	0.1755 05468	- 2.51041 2112	0.0027 90951	0.0805 21626	Dow n
ANGPTL2	3395.7 92064	5812.222307	979.3618209	0.1685 00406	- 2.56917 6024	0.0005 39637	0.0272 72595	Dow n
ANGPTL5	444.86 49918	879.7814583	9.948525304	0.0113 07951	- 6.46651 8699	0.0044 16163	0.1054 65943	Dow n
ANK2	1609.1	2787.091707	431.19479	0.1547	-	0.0001	0.0091	Dow

	43248			11375	2.69234 8822	10849	94511	n
ANKRD2 2	134.59 98364	69.69049619	199.5091767	2.8627 88868	1.51742 1275	0.0203 485	0.2618 31984	Up
ANKRD3 3	23.563 66841	38.56262959	8.564707237	0.2220 98631	- 2.17072 7595	0.0173 43341	0.2393 47196	Down
ANKRD3 3B	79.286 84692	25.16384458	133.4098493	5.3016 48117	2.40644 0918	0.0049 65286	0.1127 40832	Up
ANKRD3 5	18.081 20956	27.82227787	8.340141256	0.2997 64861	- 1.73809 6818	0.0481 36745	0.4204 12522	Down
ANKRD5 0	980.68 5295	1456.846194	504.5243958	0.3463 12739	- 1.52985 2637	0.0037 30075	0.0961 00187	Down
ANKRD6 3	19.169 96857	3.552082442	34.78785469	9.7936 507	3.29184 6742	0.0010 42384	0.0412 88962	Up
ANKS6	225.74 16488	337.006198	114.4770996	0.3396 8841	- 1.55771 6099	0.0078 3831	0.1456 46579	Down
ANLN	309.21 41316	537.4459502	80.98231301	0.1506 7992	- 2.73044 0918	0.0432 9555	0.3966 29581	Down
ANO1	832.85 1606	484.9418434	1180.761369	2.4348 51487	1.28383 3778	0.0110 01399	0.1828 44874	Up
ANO9	544.63 64807	326.5140699	762.7588914	2.3360 67452	1.22408 1931	0.0195 88258	0.2550 72882	Up
ANPEP	1255.5 68121	2040.591012	470.5452302	0.2305 92621	- 2.116581 746	0.0294 78302	0.3206 94676	Down
ANTXR2	1937.7 2806	3283.334296	592.1218244	0.1803 4162	- 2.471195 712	0.0031 04714	0.0857 63545	Down
ANXA6	3708.0 96435	5331.826848	2084.366022	0.3909 29053	- 1.35502 1288	0.0113 75664	0.1868 20606	Down
AOX1	7241.5 9836	11712.26001	2770.936706	0.2365 84289	- 2.07957 3825	0.0007 14908	0.0331 07965	Down
AP1M2	917.90 02545	436.7466663	1399.053843	3.2033 53227	1.67958 289	0.0053 20824	0.1171 80116	Up
AP1S2	821.40 99621	1214.415698	428.4042257	0.3527 65718	- 1.50321 773	0.0056 31722	0.1205 65773	Down

AP3M2	137.00 32108	78.43276234	195.5736593	2.4935 19971	1.31818 3758	0.0220 39932	0.2729 6426	Up
APBA1	400.41 45327	651.5543501	149.2747153	0.2291 05546	- 2.12591 571	0.0001 68657	0.0122 2967	Down
APOBR	681.11 99775	450.9161477	911.3238073	2.0210 49394	1.01510 4582	0.0495 52174	0.4273 84531	Up
APOL3	533.92 75152	334.6746153	733.1804151	2.1907 26101	1.13140 912	0.0220 92666	0.2733 75116	Up
AQP7	231.93 89817	320.124584	143.7533793	0.4490 54482	- 1.15503 7603	0.0089 36645	0.1577 14947	Down
AQPEP	388.31 05215	677.9553344	98.66570868	0.1455 34232	- 2.78056 956	0.0114 35139	0.1872 02657	Down
AR	62.994 06374	109.6258354	16.36229205	0.1492 55803	- 2.74414 1075	0.0214 18196	0.2685 71055	Down
ARHGAP 11A	185.92 61779	273.8030588	98.0492971	0.3581 0154	- 1.48155 9371	0.0238 62864	0.2849 30945	Down
ARHGAP 20	179.63 76286	249.8652181	109.4100391	0.4378 76228	- 1.19140 4967	0.0296 17377	0.3214 2987	Down
ARHGAP 36	33.479 60202	66.95920404	0	0	#NAME ?	0.0480 15347	0.4203 79738	Down
ARHGAP 42	1222.4 11653	688.583287	1756.240018	2.5505 12119	1.35078 6956	0.0481 44981	0.4204 12522	Up
ARHGAP 44	131.21 14488	194.1093467	68.31355098	0.3519 33341	- 1.50662 5897	0.0053 88103	0.1173 83463	Down
ARHGAP 6	281.79 91745	445.5756348	118.0227143	0.2648 76948	- 1.91660 5801	0.0167 32839	0.2339 86497	Down
ARHGEF 10L	1106.0 5712	1523.907247	688.2069929	0.4516 06877	- 1.14686 0638	0.0243 38904	0.2864 44051	Down
ARHGEF 17	2386.4 89713	3246.153673	1526.825752	0.4703 4919	- 1.08819 5874	0.0220 13725	0.2729 44996	Down
ARHGEF 25	1722.2 72261	2578.036544	866.5079778	0.3361 11596	- 1.57298 7777	0.0058 56615	0.1231 80712	Down
ARHGEF	528.04	730.8427829	325.2484507	0.4450	-	0.0079	0.1458	Down

26	56168			32035	1.16801 8906	01783	36369	n
ARHGEF 40	1484.0 6148	2222.192513	745.930447	0.3356 73189	- 1.57487 0785	0.0014 87291	0.0528 57612	Dow n
ARHGEF 5	848.37 21485	451.7676781	1244.976619	2.7557 89489	1.46246 5687	0.0057 14504	0.1214 70369	Up
ARL14EP L	97.096 13457	171.4143465	22.77792265	0.1328 82242	- 2.911779 776	0.0336 14103	0.3452 52297	Dow n
ARMC4	40.440 45299	66.41468396	14.46622202	0.2178 16621	- 2.19881 4051	0.0214 37067	0.2685 71055	Dow n
ARMCX2	337.41 71412	451.7910012	223.0432812	0.4936 86861	- 1.01833 1845	0.0491 28342	0.4257 7107	Dow n
ARNT2	96.930 24238	147.8270669	46.03341789	0.3114 00469	- 1.68315 698	0.0249 14123	0.2905 51673	Dow n
ARSE	810.67 75338	294.0625957	1327.292472	4.5136 39243	2.17429 1114	6.89E- 05	0.0065 91825	Up
ARSJ	333.40 67229	531.8498664	134.9635795	0.2537 62552	- 1.97844 8909	0.0467 67905	0.4152 22343	Dow n
ARVCF	260.58 41937	357.6784293	163.489958	0.4570 86435	- 1.12946 1091	0.0394 68133	0.3787 38227	Dow n
ASIC2	10.970 09731	20.15480703	1.785387596	0.0885 83711	- 3.49681 4758	0.0041 81799	0.1021 75662	Dow n
ASIC3	234.30 54495	34.84004958	433.7708494	12.450 35109	3.638114 521	0.0082 42774	0.1494 25203	Up
ASPH	2257.3 07327	3111.80514	1402.809515	0.4508 02493	- 1.14943 2601	0.0176 59402	0.2414 03825	Dow n
ASPHD2	212.55 17459	341.1624399	83.94105196	0.2460 44236	- 2.02301 0374	0.0016 67677	0.0570 14889	Dow n
ASPM	113.94 47093	195.0671562	32.82226244	0.1682 61347	- 2.57122 4297	0.0002 95637	0.0176 04115	Dow n
ASPN	7200.1 96089	13610.81282	789.5793625	0.0580 11184	- 4.10752 5133	0.0005 26358	0.0270 44254	Dow n

ASRGL1	870.82 89142	408.2518292	1333.405999	3.2661 36007	1.70758 4868	0.0285 28287	0.3143 53051	Up
ASTN1	31.916 57734	63.32714148	0.506013211	0.0079 90463	- 6.96750 5097	0.0143 70405	0.2144 9104	Down
ATG4A	210.51 42809	297.6599357	123.3686262	0.4144 61643	- 1.27068 9502	0.0168 90202	0.2356 37319	Down
ATG9B	266.34 8959	80.64841104	452.0495071	5.6051 88016	2.48676 2766	0.0484 17677	0.4220 52879	Up
ATP2B4	1312.7 16699	1915.513342	709.9200567	0.3706 16086	- 1.43200 2596	0.0128 56865	0.2006 98789	Down
ATP6V0A 4	13.846 92728	23.46850323	4.225351324	0.1800 43494	- 2.47358 2626	0.0382 46366	0.3721 14236	Down
ATP6V0D 2	13.652 411	2.162817624	25.14200437	11.624 65299	3.539115 746	0.0039 01821	0.0992 45325	Up
ATP8A1	136.18 57227	79.05734552	193.3140999	2.4452 38942	1.28997 5448	0.0243 71004	0.2865 8018	Up
ATP8A2	42.502 80927	11.04566532	73.95995322	6.6958 35069	2.74326 3992	0.0005 17655	0.0267 49969	Up
ATP8B4	668.69 77523	1153.259201	184.1363041	0.1596 66018	- 2.64687 0802	0.0296 66563	0.3217 69487	Down
ATRNL1	351.22 94051	584.6328689	117.8259413	0.2015 38346	- 2.31087 3734	0.0285 21693	0.3143 53051	Down
AUNIP	18.424 54171	30.75144328	6.09764014	0.1982 87934	- 2.33433 1208	0.0431 08369	0.3955 19288	Down
AXL	3663.0 77048	5695.512286	1630.64181	0.2863 02922	- 1.80438 57	0.0003 38324	0.0194 76328	Down
AZGP1	4165.9 59019	1968.457252	6363.460786	3.2327 14746	1.69274 621	0.0090 35795	0.1588 37435	Up
B3GNT9	442.52 90149	730.4421827	154.6158471	0.2116 74313	- 2.24008 1889	0.0001 30155	0.0101 76386	Down
B4GALN T1	76.922 76959	108.9062685	44.9392707	0.4126 41727	- 1.27703 8379	0.0274 03526	0.3079 79458	Down
B4GALN T4	188.28 58376	99.89691215	276.6747631	2.7696 02755	1.46967 9065	0.0379 50673	0.3704 26665	Up

B9D2	194.25 76278	264.0069833	124.5082723	0.4716 09768	- 1.08433 4494	0.0483 49665	0.4216 64412	Down
BACE1	625.79 7434	885.5013932	366.0934749	0.4134 30716	- 1.27428 2517	0.0079 51513	0.1463 58293	Down
BAG2	1097.8 11007	1882.101964	313.5200499	0.1665 79737	- 2.58571 5176	0.0339 43927	0.3478 14043	Down
BAI1	13.037 6483	24.06534302	2.009953576	0.0835 2067	- 3.58172 2902	0.0021 96475	0.0681 02096	Down
BAI2	43.728 13211	68.44500002	19.01126419	0.2777 59722	- 1.84809 0685	0.0234 74754	0.2831 29773	Down
BAIAP2L 1	396.85 49424	145.394793	648.3150919	4.4589 98005	2.15671 9554	0.0001 42095	0.0107 81796	Up
BAMBI	280.82 06582	455.5212104	106.1201059	0.2329 64138	- 2.10182 0211	0.0158 18328	0.2261 21616	Down
BARX1	87.228 68362	156.9040603	17.55330692	0.1118 72866	- 3.16006 7932	0.0008 99886	0.0380 76813	Down
BATF2	211.03 76382	125.8985514	296.176725	2.3525 03042	1.23419 6588	0.0213 90401	0.2684 32361	Up
BCAN	4.3818 27289	8.763654577	0	0	#NAME ?	0.0194 29026	0.2531 8274	Down
BCAT2	327.63 17815	459.1281039	196.135459	0.4271 91142	- 1.22704 6363	0.0162 8611	0.2293 79036	Down
BCHE	389.98 15175	717.897672	62.06536302	0.0864 54331	- 3.53191 795	0.0052 55563	0.1165 36111	Down
BCL2A1	94.900 46929	30.40352706	159.3974115	5.2427 27634	2.39031 7598	0.0043 41494	0.1043 14742	Up
BCL2L14	41.042 39687	6.45828039	75.62651336	11.710 00774	3.54967 0124	1.34E- 05	0.0019 65752	Up
BCO2	233.00 12907	369.3088247	96.69375663	0.2618 23575	- 1.93333 3091	0.0254 61432	0.2945 84159	Down
BEND6	46.803 40469	84.11073819	9.496071192	0.1128 9963	- 3.14688 7341	0.0023 52609	0.0709 84858	Down
BEX2	381.33	231.4548236	531.2164447	2.2951	1.19856	0.0421	0.3913	Up

	56341			19352	9179	94904	31076	
BEX5	108.66 70302	37.56218918	179.7718713	4.7859 79603	2.25881 4248	0.0053 9166	0.1173 83463	Up
BHLHE41	664.76 82454	348.050457	981.4860338	2.8199 53297	1.49567 1269	0.0085 86541	0.1539 49915	Up
BHMT2	106.47 80796	22.50052409	190.4556352	8.4644 97733	3.08142 4464	2.35E- 05	0.0030 1847	Up
BIN1	939.61 61022	1393.192558	486.0396463	0.3488 6753	- 1.51924 8767	0.0037 51327	0.0961 40131	Down
BIN2	344.35 06782	211.4870429	477.2143136	2.2564 7069	1.17406 8039	0.0244 14215	0.2865 8018	Up
BIRC3	1657.2 15824	819.6700828	2494.761564	3.0436 16714	1.60578 669	0.0316 63933	0.3333 79686	Up
BIRC5	159.60 83957	227.7804665	91.43632494	0.4014 2303	- 1.31680 4709	0.0474 34168	0.4178 14833	Down
BLNK	107.27 10305	56.03128897	158.510772	2.8289 68866	1.50027 6299	0.0259 39613	0.2978 74881	Up
BMF	1011.6 14339	590.4258745	1432.802804	2.4267 27665	1.27901 2214	0.0115 54948	0.1887 30822	Up
BMP4	761.68 53583	1132.475029	390.8956872	0.3451 69365	- 1.53462 3667	0.0080 01852	0.1466 20385	Down
BMP5	81.284 57668	112.9407735	49.62837985	0.4394 19514	- 1.18632 9155	0.0133 83353	0.2063 15204	Down
BMPER	69.198 59203	104.884734	33.5124501	0.3195 16948	- 1.64603 5637	0.0177 17691	0.2416 35642	Down
BMPR1B	34.986 77873	57.6374113	12.33614615	0.2140 30191	- 2.224113 778	0.0312 03542	0.3313 69782	Down
BNC2	993.84 07915	1727.796658	259.8849246	0.1504 14068	- 2.73298 8585	0.0050 4177	0.1136 16722	Down
BOLA- DMA	640.22 0663	411.3271973	869.1141287	2.1129 50796	1.07925 9172	0.0332 11764	0.3430 48338	Up
BOLA- DMB	1342.3 74791	836.5373256	1848.212257	2.2093 60181	1.14362 8633	0.0166 74239	0.2335 02855	Up
BOLA- DRB2	125.91 06367	69.98637329	181.8349002	2.5981 47206	1.37748 3173	0.0255 50304	0.2947 2169	Up
BOLA- DRB3	2691.1 0352	1526.663839	3855.543201	2.5254 69657	1.33655 1708	0.0054 01334	0.1173 98861	Up

BPIFA1	223.73 00191	0.3302029	447.1298353	1354.1 06324	10.4031 2531	2.51E- 05	0.0031 55766	Up
BPIFB1	661.99 05234	8.822869673	1315.158177	149.06 24055	7.21977 2636	0.0002 72969	0.0167 53582	Up
BRI3BP	555.72 01027	311.8593676	799.5808378	2.5639 14767	1.35834 8303	0.0176 74215	0.2414 03825	Up
BRINP1	22.144 31926	4.902303598	39.38633492	8.0342 50457	3.00616 3436	0.0061 52718	0.1273 23742	Up
BRINP2	28.073 62719	54.88688076	1.26037362	0.0229 63113	- 5.44453 7984	0.0361 92803	0.3612 25864	Down
BSP5	513.93 72243	69.25296084	958.6214878	13.842 31773	3.79101 362	0.0012 27598	0.0463 7793	Up
BTBD10	476.98 27274	676.0150078	277.9504469	0.4111 60172	- 1.28222 7574	0.0324 17229	0.3384 95917	Down
BTBD19	239.55 99807	342.1920059	136.9279555	0.4001 49487	- 1.32138 9037	0.0125 66552	0.1987 54893	Down
BTC	267.34 61298	75.05600736	459.6362522	6.1239 10242	2.61445 3138	0.0004 27553	0.0230 20013	Up
BTG2	1618.1 96768	2342.094699	894.2988373	0.3818 37181	- 1.38897 0505	0.0241 28879	0.2863 81143	Down
BVES	207.55 4844	409.6619647	5.447723415	0.0132 98094	- 6.23263 6682	0.0004 31537	0.0230 97147	Down
C10H14orf37	137.54 36872	60.87926467	214.2081097	3.5185 72553	1.81499 0262	0.0049 35119	0.1126 24686	Up
C10H15orf48	874.13 56208	232.0613831	1516.209859	6.5336 58632	2.70789 1079	0.0153 46064	0.2230 94805	Up
C10H15orf52	1533.6 85212	2306.07748	761.2929436	0.3301 24616	- 1.59891 7375	0.0319 88697	0.3354 24339	Down
C10H15orf59	136.30 5827	198.3000837	74.3115703	0.3747 4301	- 1.41602 6526	0.0152 13766	0.2219 2778	Down
C13H20orf194	1018.4 85028	1472.358244	564.611811	0.3834 74479	- 1.38279 7527	0.0275 63762	0.3088 34346	Down
C14H8orf22	14.333 8803	23.3448189	5.322941709	0.2280 13836	- 2.13280 6724	0.0269 10398	0.3047 41613	Down
C14H8orf	10.441	17.56917788	3.312988133	0.1885	-	0.0326	0.3397	Down

88	08301			68193	2.40684 1743	56616	70802	n
C15H1lor f52	84.012 93077	35.73276646	132.2930951	3.7022 90871	1.88841 8245	0.0044 80229	0.1061 50151	Up
C15H1lor f70	42.033 7742	66.28023565	17.78731276	0.2683 65261	- 1.89773 0162	0.0035 74397	0.0936 51879	Dow n
C16H1orf 116	369.69 42779	128.6546789	610.7338769	4.7470 78632	2.24703 9947	4.38E- 05	0.0047 9904	Up
C16H1orf 167	26.029 78849	8.94847585	43.11110112	4.8177 03243	2.26834 553	0.0163 00074	0.2293 79036	Up
C18H16or f74	66.052 53117	37.15014163	94.9549207	2.5559 77354	1.35387 5054	0.0310 28038	0.3301 64027	Up
C18H16or f87	371.21 06823	514.1560154	228.2653492	0.4439 61254	- 1.17149 4322	0.0326 92311	0.3398 29961	Dow n
C1H3orf8 0	6.5927 90168	1.368330455	11.81724988	8.6362 5438	3.110405 738	0.0499 72902	0.4291 63853	Up
C1QL3	15.807 25687	30.0869132	1.527600538	0.0507 72923	- 4.29979 6861	0.0268 5232	0.3042 75536	Dow n
C1QTNF1	3311.0 7145	6090.758811	531.3840883	0.0872 44316	- 3.51879 5042	4.18E- 11	7.52E- 08	Dow n
C1QTNF2	214.73 77573	392.8458385	36.62967601	0.0932 41858	- 3.42287 8432	0.0075 30327	0.1435 49614	Dow n
C1QTNF3	2161.5 90547	4145.000026	178.1810672	0.0429 86988	- 4.53995 6156	0.0001 10284	0.0091 94511	Dow n
C1QTNF6	450.15 92717	814.3085507	86.00999273	0.1056 23345	- 3.24299 9363	5.79E- 06	0.0012 10837	Dow n
C1QTNF7	326.48 45219	473.2685997	179.7004441	0.3797 00754	- 1.39706 5232	0.0038 12477	0.0972 47905	Dow n
C1R	6684.8 04366	9821.815936	3547.792797	0.3612 15565	- 1.46906 8032	0.0155 65025	0.2249 83412	Dow n
C1RL	206.60 76079	122.6636232	290.5515925	2.3686 85882	1.24408 6892	0.0199 75134	0.2591 72316	Up
C1S	9767.7 92057	14863.57246	4672.011651	0.3143 26294	- 1.66966 5132	0.0135 76453	0.2079 06218	Dow n

C22H3orf18	48.543 26119	73.01978549	24.0667369	0.3295 91997	- 1.60124 6884	0.0187 98206	0.2492 98034	Down
C23H6orf132	512.28 07481	285.5609175	739.0005787	2.5878 91176	1.37177 6952	0.0121 30405	0.1940 87136	Up
C25H7orf61	33.078 16856	12.9487954	53.20754171	4.1090 72703	2.03881 2857	0.0103 80017	0.1756 95878	Up
C27H8orf48	47.175 72457	75.68977472	18.66167442	0.2465 54762	- 2.02001 9975	0.0034 08321	0.0904 00692	Down
C28H10orf71	42.519 83847	82.28970431	2.749972628	0.0334 18186	- 4.90322 2775	0.0032 05947	0.0871 02502	Down
C29H11orf95	136.80 02139	197.4345167	76.16591111	0.3857 78092	- 1.37415 6879	0.0219 88698	0.2729 44996	Down
C2CD4D	12.555 29368	2.995585528	22.11500183	7.3825 30602	2.884115 432	0.0165 86771	0.2328 15945	Up
C2H2orf72	136.80 28204	67.19795386	206.4076869	3.0716 36487	1.61900 749	0.0363 34474	0.3613 95383	Up
C2H2orf88	70.197 93799	133.5548946	6.840981343	0.0512 22244	- 4.28708 5744	0.0022 36061	0.0687 36904	Down
C3	14619. 71418	7900.002987	21339.42538	2.7011 92064	1.43359 6224	0.0234 10329	0.2826 15829	Up
C3H2orf54	646.80 53553	81.79895171	1211.811759	14.814 51453	3.88893 9445	0.0108 28755	0.1811 47449	Up
C4BPA	36.537 28905	1.392089882	71.68248822	51.492 71549	5.68629 6448	3.14E- 08	2.02E- 05	Up
C7	1901.7 34338	2832.75964	970.7090374	0.3426 72574	- 1.54509 7365	0.0007 35593	0.0336 2927	Down
C8H9orf152	303.54 29143	99.00094517	508.0848834	5.1321 21542	2.35955 5338	3.46E- 05	0.0040 08814	Up
C8H9orf3	2094.9 31523	2844.498982	1345.364065	0.4729 70486	- 1.08017 7935	0.0346 7513	0.3524 94554	Down
CA12	36.114 83909	18.66934559	53.56033259	2.8688 91806	1.52049 3561	0.0467 20236	0.4151 03753	Up
CA5B	197.90 72642	303.5037203	92.31080807	0.3041 50499	- 1.71714 2722	0.0029 36638	0.0839 57964	Down
CA8	542.64 73488	92.03727471	993.2574229	10.791 90389	3.43187 75	2.59E- 09	2.73E- 06	Up

CACNA1 A	383.08 59936	627.2530789	138.9189083	0.2214 71864	- 2.17480 4669	0.0002 94865	0.0176 04115	Dow n
CACNA1 D	150.81 26196	241.0712715	60.55396769	0.2511 86993	- 1.99316 6337	0.0002 01518	0.0140 63107	Dow n
CACNA1 G	302.50 47578	570.8029084	34.2066071	0.0599 27177	- 4.06064 5768	0.0006 56067	0.0313 45186	Dow n
CACNA2 D1	1126.3 94281	1769.535353	483.2532095	0.2730 96103	- 1.87251 9366	0.0018 69456	0.0611 18937	Dow n
CACNA2 D2	26.541 56477	11.90784278	41.17528676	3.4578 29223	1.78986 6618	0.0400 81547	0.3810 46533	Up
CACNB1	246.81 52654	332.4679483	161.1625826	0.4847 46224	- 1.04469 8434	0.0439 32559	0.4000 19848	Dow n
CACNB2	199.67 11562	350.1650494	49.17726299	0.1404 40238	- 2.83197 1745	0.0015 59907	0.0550 03544	Dow n
CACNG4	19.528 24525	36.35395927	2.702531239	0.0743 39392	- 3.74972 9295	0.0008 98949	0.0380 76813	Dow n
CADM3	649.68 30697	894.2336557	405.1324837	0.4530 49917	- 1.14225 8079	0.0102 51735	0.1744 1528	Dow n
CALD1	28272. 32805	42557.68861	13986.96749	0.3286 59003	- 1.60533 6591	0.0375 77476	0.3689 55236	Dow n
CALHM2	436.80 03067	646.3178811	227.2827322	0.3516 57812	- 1.50775 5826	0.0013 08058	0.0484 40436	Dow n
CALU	7089.4 51609	11032.91664	3145.986574	0.2851 45504	- 1.81022 9811	0.0006 33655	0.0307 97353	Dow n
CAMK1	589.39 51728	933.7585022	245.0318434	0.2624 14578	- 1.93008 0226	0.0002 13345	0.0146 4344	Dow n
CAMK1D	485.04 64498	790.7745347	179.3183648	0.2267 62948	- 2.14074 3164	0.0019 86563	0.0640 22145	Dow n
CAMK2N 1	228.35 20873	327.6598946	129.0442801	0.3938 36055	- 1.34433 2903	0.0087 40509	0.1559 3311	Dow n

CAMK2N 2	7.7327 77989	14.4487491	1.016806875	0.0703 7335	- 3.82882 7003	0.0274 36084	0.3079 79458	Dow n
CAMK4	73.230 31718	38.92393724	107.5366971	2.7627 39454	1.46609 9512	0.0211 919	0.2674 34348	Up
CAMSAP 3	988.51 92933	522.7541223	1454.284464	2.7819 66516	1.47610 5056	0.0245 32428	0.2875 92342	Up
CAP2	397.75 09299	695.9388189	99.56304089	0.1430 62922	- 2.80527 8282	0.0096 72088	0.1664 43219	Dow n
CAPN14	153.47 31896	1.87448345	305.0718958	162.74 98476	7.34651 2382	0.0089 08194	0.1577 14947	Up
CAPN2	4893.1 03335	7049.268329	2736.938341	0.3882 58499	- 1.36491 0589	0.0047 83793	0.1107 16791	Dow n
CAPN3	32.170 95991	12.72043925	51.62148058	4.0581 52362	2.02082 3032	0.0122 83264	0.1956 26218	Up
CAPSL	28.715 21889	9.034275438	48.39616235	5.3569 5006	2.421411 847	0.0104 47902	0.1764 87219	Up
CASQ1	405.22 81774	763.8720358	46.58431902	0.0609 84454	- 4.03541 4669	0.0142 7896	0.2136 26076	Dow n
CAST	5635.1 09346	7974.519169	3295.699523	0.4132 78776	- 1.27481 2818	0.0154 81103	0.2245 13455	Dow n
CAV3	8.1995 80585	14.87156063	1.527600538	0.1027 19585	- 3.28321 6815	0.0223 77999	0.2751 49845	Dow n
CBLC	497.12 84543	223.7424033	770.5145053	3.4437 57169	1.78398 3417	0.0010 97275	0.0429 7092	Up
CBLN2	53.246 29483	100.6588543	5.833735373	0.0579 55511	- 4.10891 0327	0.0046 02929	0.1080 60676	Dow n
CCBE1	117.65 12439	207.0957214	28.20676635	0.1362 01589	- 2.87618 4559	0.0002 60388	0.0164 3003	Dow n
CCDC109 B	149.12 98072	228.9350477	69.32456663	0.3028 13254	- 1.72349 9744	0.0065 64427	0.1314 91244	Dow n
CCDC114	59.805 14085	93.48614984	26.12413186	0.2794 43874	- 1.83936 9547	0.0047 97874	0.1107 37156	Dow n
CCDC136	305.37 4027	550.291075	60.45697897	0.1098 63637	- 3.18621	0.0002 65803	0.0165 87444	Dow n

					4136				
CCDC141	173.36 71514	287.3742666	59.36003622	0.2065 60027	- 2.27536 7002	0.0085 46155	0.1535 31975	Down	
CCDC151	37.399 93244	57.14900066	17.65086421	0.3088 56918	- 1.69498 9449	0.0471 13246	0.4168 27454	Down	
CCDC158	70.144 82696	28.72081422	111.5688397	3.8845 98773	1.95776 5595	0.0026 55976	0.0777 88942	Up	
CCDC160	155.40 64985	71.82158643	238.9914105	3.3275 70754	1.73446 9342	0.0135 12177	0.2073 28913	Up	
CCDC39	47.942 6905	16.81655944	79.06882156	4.7018 42958	2.23322 6354	0.0016 62263	0.0570 14889	Up	
CCDC62	76.850 6276	111.6531861	42.04806907	0.3765 95335	- 1.40891 2964	0.0377 66437	0.3695 06985	Down	
CCDC64	2331.8 52577	1021.590098	3642.115057	3.5651 43265	1.83396 0052	0.0040 2659	0.1002 91083	Up	
CCDC64B	165.23 26942	56.13895519	274.3264333	4.8865 61077	2.28881 9524	0.0002 35238	0.0153 82883	Up	
CCDC67	158.49 64082	68.09550477	248.8973115	3.6551 2103	1.86991 9178	0.0022 17768	0.0683 46977	Up	
CCDC68	129.25 61251	75.85306804	182.6591822	2.4080 65842	1.26787 4839	0.0320 61182	0.3356 31001	Up	
CCDC69	645.21 32943	1042.587891	247.8386972	0.2377 1492	- 2.07269 5639	7.87E- 05	0.0071 85859	Down	
CCDC8	715.85 59734	994.0499096	437.6620372	0.4402 81753	- 1.18350 1039	0.0173 84106	0.2393 47196	Down	
CCDC80	19728. 85845	33730.14334	5727.573569	0.1698 05788	- 2.55804 2459	0.0137 4265	0.2088 72938	Down	
CCDC85C	549.38 4142	346.6513903	752.1168938	2.1696 63572	1.117471 356	0.0475 46244	0.4185 14001	Up	
CCDC86	626.91 10076	393.9039041	859.9181111	2.1830 65723	1.12635 5564	0.0287 16954	0.3152 72881	Up	
CCL20	71.980 32313	0.6604058	143.3002405	216.98 81616	7.76147 2524	0.0002 35057	0.0153 82883	Up	
CCL21	406.32 08009	700.6549869	111.9866149	0.1598 31325	- 2.64537 7909	3.11E- 07	0.0001 24148	Down	
CCL28	177.03 99816	41.77916864	312.3007945	7.4750 36116	2.90208 055	0.0016 32587	0.0563 50885	Up	

CCL5	294.80 74976	155.9391917	433.6758036	2.7810 57146	1.47563 339	0.0405 29512	0.3827 95278	Up
CCND2	183.44 70433	261.6757303	105.2183564	0.4020 94441	- 1.31439 3705	0.0263 90654	0.3012 86255	Down
CCNF	161.90 20019	236.8630528	86.94095113	0.3670 51552	- 1.44594 5392	0.0191 56831	0.2518 25503	Down
CCNJL	89.977 67185	48.28672039	131.6686233	2.7268 08163	1.44721 3207	0.0161 74326	0.2286 65812	Up
CCRL2	60.087 26819	27.37776905	92.79676734	3.3894 93394	1.76106 9659	0.0086 59232	0.1547 90224	Up
CD109	1420.8 63494	2112.413054	729.3139334	0.3452 51575	- 1.53428 01	0.0192 63938	0.2520 66266	Down
CD207	20.097 81916	2.757595272	37.43804305	13.576 33712	3.76302 2389	0.0045 39084	0.1070 48899	Up
CD209	199.92 21689	390.6011521	9.24318563	0.0236 64	- 5.401162 237	0.0007 22301	0.0332 20319	Down
CD244	207.38 89962	122.8761298	291.9018626	2.3755 7826	1.24827 8735	0.0410 2064	0.3847 36043	Up
CD247	377.08 55438	227.6546088	526.5164789	2.3127 86382	1.20963 2019	0.0187 44435	0.2489 52128	Up
CD248	4262.7 84829	7984.819467	540.7501922	0.0677 22282	- 3.88422 5611	2.10E- 12	4.73E- 09	Down
CD276	1465.8 22375	2301.917598	629.7271511	0.2735 66331	- 1.87003 7413	0.0007 36803	0.0336 2927	Down
CD300E	41.357 05781	16.49316558	66.22095004	4.0150 53977	2.00541 9383	0.0093 38216	0.1620 93767	Up
CD3G	132.94 77785	82.3535841	183.5419729	2.2287 06557	1.15620 6677	0.0325 38233	0.3390 12187	Up
CD40	240.84 97546	139.2505804	342.4489288	2.4592 28017	1.29820 5506	0.0334 98564	0.3444 28059	Up
CD59	7057.5 51179	3480.900597	10634.20176	3.0550 1449	1.611179 223	0.0020 59531	0.0654 35602	Up
CD5L	70.458 26237	117.6276874	23.28883736	0.1979 87718	- 2.33651 7161	0.0002 91122	0.0174 5081	Down
CD7	184.28 17683	109.740138	258.8233986	2.3585 11693	1.23787 6754	0.0259 22891	0.2978 73068	Up
CD74	25642.	16559.2806	34726.335	2.0970	1.06839	0.0279	0.3102	Up

	8078			92007	0159	9701	60263	
CD9	8465.1 91466	5515.956915	11414.42602	2.0693 46478	1.04917 5221	0.0236 92995	0.2841 56185	Up
CD96	209.01 96954	98.27115389	319.7682369	3.2539 37949	1.70218 674	0.0114 40567	0.1872 02657	Up
CD99	10908. 15303	15935.56304	5880.743019	0.3690 32647	- 1.43817 9641	0.0020 09682	0.0645 35919	Down
CDC20	136.52 64702	210.9761105	62.07682976	0.2942 36298	- 1.76495 2861	0.0246 28764	0.2885 33596	Down
CDC42EP 2	305.23 11338	485.6447971	124.8174705	0.2570 13915	- 1.96008 1625	0.0001 28436	0.0101 33618	Down
CDC42EP 5	300.33 14059	465.6065765	135.0562353	0.2900 65137	- 1.78555 1188	0.0018 34362	0.0605 27213	Down
CDCP1	942.91 68612	437.0325948	1448.801128	3.3150 87124	1.72904 6786	0.0009 25263	0.0386 86222	Up
CDH1	1588.7 57215	588.0059135	2589.508516	4.4038 81757	2.13877 5733	5.98E- 05	0.0060 39202	Up
CDH11	2754.3 23554	4705.957186	802.6899217	0.1705 68896	- 2.55157 3507	3.07E- 05	0.0037 04918	Down
CDH26	32.440 72706	6.613296122	58.268158	8.8107 5895	3.13926 6297	0.0002 64991	0.0165 87444	Up
CDHR4	92.420 01713	171.281395	13.55863928	0.0791 60024	- 3.65908 4146	0.0273 99478	0.3079 79458	Down
CDK14	989.64 46826	1388.806594	590.4827715	0.4251 72788	- 1.23387 8831	0.0235 72702	0.2833 60894	Down
CDKL4	41.926 39353	63.94350103	19.90928603	0.3113 57459	- 1.68335 6251	0.0279 16722	0.3098 92852	Down
CDKN1C	506.20 36206	728.869742	283.5374992	0.3890 09837	- 1.36212 1459	0.0382 75777	0.3721 14236	Down
CDKN2C	414.37 78612	629.897152	198.8585704	0.3157 00063	- 1.66337 3548	0.0009 74003	0.0397 17673	Down
CDKN3	28.028 76854	46.96169816	9.095838922	0.1936 86329	- 2.36820 5967	0.0235 02599	0.2832 7563	Down

CDR2L	1083.1 69038	1545.30434	621.0337361	0.4018 84418	- 1.31514 7452	0.0071 32449	0.1383 6335	Down
CDS1	114.04 46094	48.73074687	179.3584719	3.6806 01743	1.87994 1652	0.0021 63666	0.0673 26013	Up
CELA3B	12.085 4171	22.39966692	1.771167283	0.0790 71144	- 3.66070 4896	0.0489 39808	0.4248 27876	Down
CELF6	328.64 42811	141.7266804	515.5618819	3.6377 19309	1.86303 4227	0.0008 25976	0.0364 9517	Up
CENPA	99.903 1628	160.02774	39.77858563	0.2485 73064	- 2.00825 8125	0.0173 95695	0.2393 47196	Down
CENPF	352.68 06373	574.3620953	130.9991792	0.2280 77689	- 2.13240 277	0.0054 37943	0.1176 7813	Down
CENPM	215.71 18195	336.9477492	94.47588982	0.2803 8736	- 1.83450 6782	0.0060 89825	0.1267 51536	Down
CEP170	957.30 40981	1324.031147	590.5770495	0.4460 4468	- 1.16473 9863	0.0238 24844	0.2848 68462	Down
CEP55	81.415 31126	126.5182473	36.31237517	0.2870 12948	- 1.80081 2271	0.0127 1284	0.1999 81294	Down
CERCAM	1639.3 05894	2968.123933	310.487856	0.1046 07443	- 3.25694 2585	6.26E- 05	0.0062 14592	Down
CES4A	8.4833 8933	1.415849309	15.55092935	10.983 4636	3.45726 1171	0.0184 21599	0.2470 11151	Up
CFAP99	10.801 42599	19.61189916	1.990952812	0.1015 17594	- 3.30019 8316	0.0308 32489	0.3288 61594	Down
CFH	2348.4 66465	3521.594543	1175.338387	0.3337 51763	- 1.58315 2638	0.0319 66192	0.3353 8392	Down
CFI	1363.7 75732	320.9524855	2406.598978	7.4983 02978	2.90656 4121	0.0224 61877	0.2753 4556	Up
CFL2	2468.8 19062	4234.831545	702.8065781	0.1659 58568	- 2.591104 983	0.0086 89146	0.1551 70722	Down
CFTR	64.916 04844	5.232506498	124.5995904	23.812 60117	4.57365 3317	0.0076 30975	0.1435 85359	Up
CGREF1	600.45	1051.145326	149.7714517	0.1424	-	0.0011	0.0442	Down

	8389			84058	2.811127 584	47718	95496	n
CHAD	151.22 59425	249.4476815	53.00420348	0.2124 86254	- 2.23455 8579	0.0051 77237	0.1155 11474	Down
CHD3	4455.3 95664	5971.854574	2938.936754	0.4921 31333	- 1.02288 4721	0.0434 21078	0.3971 72556	Down
CHI3L1	9825.9 16566	2943.419826	16708.41331	5.6765 30803	2.50500 95	0.0409 94005	0.3847 36043	Up
CHI3L2	707.46 98958	0.684165227	1414.255626	2067.1 25849	11.01341 051	7.14E- 06	0.0013 80942	Up
CHKA	766.51 25561	398.0934589	1134.931653	2.8509 17613	1.511426 348	0.0053 62066	0.1173 12844	Up
CHN1	588.84 8789	866.2044609	311.493117	0.3596 06919	- 1.47550 7317	0.0144 36337	0.2150 8587	Down
CHPF	1667.4 48939	2438.98247	895.9154092	0.3673 31631	- 1.44484 4962	0.0030 36158	0.0850 45521	Down
CHRD	279.94 12231	435.3710938	124.5113523	0.2859 8902	- 1.80596 8338	0.0009 20486	0.0385 85331	Down
CHRD1	1872.9 8033	2902.574034	843.3866255	0.2905 65069	- 1.78306 6817	0.0013 35886	0.0489 27182	Down
CHRD2	605.66 2452	1159.210293	52.11461074	0.0449 56994	- 4.47531 06	3.29E- 05	0.0038 72765	Down
CHRN1	208.70 0908	124.3231951	293.0786209	2.3573 92928	1.23719 2246	0.0204 57459	0.2623 69556	Up
CHST12	338.27 8994	490.0170472	186.5409408	0.3806 82554	- 1.39333 9641	0.0285 6971	0.3146 1672	Down
CHST9	44.759 8265	78.13375054	11.38590247	0.1457 2323	- 2.77869 722	9.84E- 05	0.0084 24286	Down
CIDEB	143.91 96106	234.0191167	53.82010455	0.2299 81658	- 2.12040 9288	0.0010 09542	0.0406 14294	Down
CIITA	917.10 10715	434.1190782	1400.083065	3.2251 12959	1.68934 9692	0.0022 87196	0.0694 77455	Up
CILP	6036.9 58733	11646.42844	427.4890258	0.0367 0559	- 4.76785	0.0039 66698	0.0998 09354	Down

					6403			
CIST1	114.38 82348	25.40429296	203.3721767	8.0054 2558	3.00097 81	0.0410 77306	0.3847 36043	Up
CIT	261.32 02781	387.7731128	134.8674434	0.3477 99883	- 1.52367 0646	0.0192 31746	0.2520 32404	Down
CKAP2	419.59 27553	615.4887431	223.6967675	0.3634 45749	- 1.46018 8062	0.0149 33362	0.2196 3364	Down
CKAP4	3863.2 14094	5400.91628	2325.511908	0.4305 77292	- 1.21565 5858	0.0479 68705	0.4202 11839	Down
CKB	2609.0 73423	4445.546062	772.6007835	0.1737 92099	- 2.52456 5595	0.0413 4903	0.3860 74559	Down
CKMT1B	71.348 56897	15.19176248	127.5053754	8.3930 60094	3.06919 691	0.0022 16463	0.0683 46977	Up
CLCA2	134.76 24419	51.63491172	217.889972	4.2198 18816	2.07718 1056	0.0200 75572	0.2597 82693	Up
CLCN3	806.83 76774	469.9481541	1143.727201	2.4337 30595	1.28316 9476	0.0126 54065	0.1999 63145	Up
CLDN7	2102.5 23202	703.8852407	3501.161163	4.9740 51111	2.31442 1332	1.87E- 05	0.0025 248	Up
CLEC11A	234.11 82975	415.0454215	53.19117348	0.1281 57476	- 2.96401 0459	2.74E- 07	0.0001 14785	Down
CLEC4A	75.946 98329	26.83333532	125.0606313	4.6606 44298	2.22052 941	0.0075 92444	0.1435 49614	Up
CLEC4G	17.659 34291	35.31868582	0	0	#NAME ?	7.06E- 07	0.0002 44295	Down
CLEC5A	87.646 65768	43.339723	131.9535924	3.0446 33958	1.60626 879	0.0171 82768	0.2378 73536	Up
CLEC6A	76.918 26957	19.29186665	134.5446725	6.9741 65588	2.80202 0618	0.0327 77789	0.3403 25045	Up
CLEC7A	60.279 77635	32.82490236	87.73465033	2.6728 07656	1.41835 602	0.0261 46367	0.2994 84146	Up
CLIC6	399.20 69474	121.4697128	676.944182	5.5729 46261	2.47844 0242	0.0031 02167	0.0857 63545	Up
CLIP3	577.28 79359	859.2971315	295.2787403	0.3436 28216	- 1.54107 9591	0.0020 89307	0.0659 15789	Down
CLIP4	125.83 04944	69.93859875	181.7223901	2.5983 13283	1.37757 5389	0.0175 5422	0.2407 91408	Up
CLN3	948.40	582.8574261	1313.958071	2.2543	1.17270	0.0221	0.2733	Up

	77487			38733	4308	18918	7767	
CLSTN2	62.664 32592	100.1990039	25.1296479	0.2507 97382	- 1.99540 5804	0.0007 90674	0.0355 46726	Down
CMYA5	261.45 15425	412.1288763	110.7742088	0.2687 85361	- 1.89547 3529	0.0213 68774	0.2683 48233	Down
CNKSRI	195.85 23788	93.13125602	298.5735017	3.2059 43036	1.68074 8792	0.0042 82404	0.1033 69771	Up
CNN1	26551. 27685	49904.46472	3198.088981	0.0640 84226	- 3.96388 6908	0.0113 07738	0.1858 74815	Down
CNPY4	713.70 73559	980.088477	447.3262349	0.4564 14135	- 1.13158 4621	0.0252 40593	0.2934 48401	Down
CNST	511.01 53029	716.199449	305.8311568	0.4270 19537	- 1.22762 6019	0.0300 51414	0.3239 89555	Down
CNTN1	392.23 33285	667.0623387	117.4043183	0.1760 02019	- 2.50633 6117	0.0022 56752	0.0690 18991	Down
CNTN2	27.146 12246	43.98959147	10.30265344	0.2342 06618	- 2.09414 6252	0.0282 22602	0.3119 40414	Down
CNTNAP 1	390.61 86843	560.6014773	220.6358913	0.3935 69943	- 1.34530 805	0.0049 54029	0.1127 40832	Down
COBL	105.00 17827	57.49316032	152.5104051	2.6526 70409	1.40744 5434	0.0262 29448	0.3000 53537	Up
COCH	242.68 92562	474.0909359	11.2875765	0.0238 08885	- 5.39235 614	0.0018 12995	0.0602 64491	Down
COL11A1	341.65 18288	649.1615078	34.14214984	0.0525 9423	- 4.24895 1648	0.0145 36177	0.2160 00543	Down
COL12A1	22067. 62262	38409.00125	5726.243991	0.1490 8599	- 2.74578 3401	0.0002 22372	0.0149 77235	Down
COL14A1	13741. 39938	25158.57757	2324.221195	0.0923 82854	- 3.43623 1076	0.0004 84829	0.0254 93229	Down
COL16A1	9082.0 69965	14345.8632	3818.276726	0.2661 5873	- 1.90964 1209	0.0155 04882	0.2245 75268	Down

COL17A1	6232.9 08797	1965.430712	10500.38688	5.3425 37294	2.41752 5074	6.64E- 06	0.0013 13131	Up
COL1A1	47708 6.1951	938913.5906	15258.79951	0.0162 51548	- 5.94327 9023	0.0001 58692	0.0117 48522	Down
COL1A2	29399 4.6445	575249.2011	12740.08797	0.0221 47076	- 5.49673 993	0.0001 59222	0.0117 48522	Down
COL21A1	909.24 26446	1616.171164	202.3141252	0.1251 81125	- 2.997911 043	0.0001 11757	0.0091 94511	Down
COL23A1	106.94 96267	38.04381982	175.8554337	4.6224 44184	2.20865 5899	0.0011 10326	0.0433 1235	Up
COL27A1	815.58 35488	1139.597122	491.5699751	0.4313 54174	- 1.21305 518	0.0117 76874	0.1909 6801	Down
COL3A1	50242 5.816	983367.4873	21484.14475	0.0218 47524	- 5.51638 6405	0.0001 13938	0.0092 71236	Down
COL4A1	56670. 89142	78637.0259	34704.75695	0.4413 28452	- 1.18007 5334	0.0066 23303	0.1321 94074	Down
COL4A2	40792. 78518	55355.18371	26230.38666	0.4738 56013	- 1.07747 9349	0.0119 11992	0.1922 92059	Down
COL4A6	544.43 85471	892.5060077	196.3710866	0.2200 22145	- 2.18427 9355	0.0191 48774	0.2518 25503	Down
COL5A1	27298. 81972	52049.75176	2547.887674	0.0489 51005	- 4.35251 7701	1.68E- 06	0.0005 02399	Down
COL5A2	32097. 27609	60094.94244	4099.609741	0.0682 18881	- 3.87368 5094	0.0001 63733	0.0119 20704	Down
COL5A3	5038.2 09439	8850.346987	1226.071891	0.1385 33765	- 2.85169 0444	0.0045 44413	0.1070 48899	Down
COL6A1	47868. 70593	87045.92755	8691.484316	0.0998 49408	- 3.32410 2319	0.0004 93912	0.0257 44959	Down
COL6A2	41311. 70833	74195.66957	8427.747096	0.1135 88126	- 3.138116 06	0.0007 88177	0.0355 23256	Down
COL6A3	72947.	140280.4193	5615.084792	0.0400	-	9.09E-	0.0002	Down

	75204			27573	4.64286 2029	07	91826	n
COL6A5	24.156 00822	39.8089709	8.503045534	0.2135 96216	- 2.22704 2008	0.0136 72029	0.2083 59401	Dow n
COL6A6	589.29 00574	1136.537516	42.042599	0.0369 91827	- 4.75664 9639	3.74E- 08	2.17E- 05	Dow n
COL7A1	1614.1 94514	913.8248019	2314.564226	2.5328 31481	1.34075 1092	0.0120 25465	0.1934 29284	Up
COL8A1	20737. 5365	38123.03015	3352.042859	0.0879 26979	- 3.50755 0294	0.0311 8558	0.3313 69782	Dow n
COL8A2	548.17 75177	749.1626325	347.1924028	0.4634 40631	- 1.10954 3562	0.0275 06808	0.3083 88361	Dow n
COMP	132.29 8505	238.1343075	26.46270243	0.1111 25116	- 3.16974 3176	1.54E- 07	6.91E- 05	Dow n
COPZ2	1073.1 98657	1771.071921	375.3253935	0.2119 19905	- 2.23840 8992	0.0004 89392	0.0256 39838	Dow n
CORO1C	2518.5 75842	3603.349455	1433.802228	0.3979 08181	- 1.32949 2533	0.0173 77374	0.2393 47196	Dow n
CORO2B	249.78 21054	371.6910127	127.8731982	0.3440 30912	- 1.53938 9894	0.0009 49065	0.0392 34582	Dow n
COX7A1	230.31 61028	322.729699	137.9025066	0.4273 00329	- 1.22667 7667	0.0252 40213	0.2934 48401	Dow n
CPAMD8	91.302 51317	135.0982147	47.50681169	0.3516 4648	- 1.50780 2317	0.0272 7469	0.3069 56512	Dow n
CPE	1626.4 29103	2715.228845	537.6293601	0.1980 05174	- 2.33638 9965	0.0181 19407	0.2448 0939	Dow n
CPEB1	176.71 14653	285.841175	67.58175557	0.2364 31142	- 2.08050 8017	0.0178 09861	0.2423 39933	Dow n
CPED1	371.25 78908	622.0322389	120.4835427	0.1936 93406	- 2.36815 3258	0.0080 10545	0.1466 20385	Dow n
CPN1	6.2685	12.53714383	0	0	#NAME	0.0278	0.3096	Dow

	71916				?	75627	27791	n
CPNE2	405.85 91517	586.0642092	225.6540941	0.3850 33057	- 1.37694 5781	0.0281 49483	0.3113 23584	Dow n
CPNE5	46.628 47855	24.09667441	69.16028268	2.8701 17324	1.521109 712	0.0253 49561	0.2941 48968	Up
CPOX	347.61 40896	217.3160181	477.9121612	2.1991 57547	1.13695 0962	0.0202 33955	0.2608 36709	Up
CPQ	360.71 49542	574.0628089	147.3670995	0.2567 09017	- 1.96179 4122	0.0076 10744	0.1435 85359	Dow n
CPXM1	2698.8 81447	4726.34537	671.4175234	0.1420 58498	- 2.81544 296	0.0345 3736	0.3517 20515	Dow n
CPZ	865.05 27426	1697.927832	32.17765276	0.0189 51131	- 5.72157 224	0.0155 10342	0.2245 75268	Dow n
CR2	154.63 12964	281.1772859	28.08530679	0.0998 84693	- 3.32359 2588	0.0383 22614	0.3721 14236	Dow n
CRABP2	600.30 05004	1123.429992	77.17100915	0.0686 92317	- 3.86370 7441	0.0008 7934	0.0375 99374	Dow n
CRB1	34.570 59681	61.08728005	8.053913573	0.1318 42727	- 2.923110 109	0.0002 81142	0.0170 70046	Dow n
CRB3	136.37 37023	62.34192799	210.4054766	3.3750 23574	1.75489 7579	0.0053 27728	0.1171 80116	Up
CREB5	266.61 65361	398.8289021	134.4041702	0.3369 97067	- 1.56919 206	0.0241 91422	0.2863 81143	Dow n
CRIP1	1175.5 77513	1782.361662	568.7933642	0.3191 23428	- 1.64781 3567	0.0446 45584	0.4038 3448	Dow n
CRISP3	1501.6 32077	25.94307656	2977.321078	114.76 36084	6.84252 1424	0.0333 00837	0.3434 13594	Up
CRISPLD 2	9436.9 75017	15737.72138	3136.228656	0.1992 80987	- 2.32712 402	0.0009 06683	0.0381 84717	Dow n
CRLF1	2550.9 32163	4869.903989	231.960338	0.0476 31399	- 4.39194 3279	9.67E- 06	0.0015 8056	Dow n
CRTAM	45.562 98479	22.99537683	68.13059275	2.9627 95229	1.56695 8919	0.0384 72648	0.3731 68082	Up

CRTAP	1711.5 44606	2471.045482	952.0437304	0.3852 79728	- 1.37602 1818	0.0066 92244	0.1329 28964	Down
CSGALN ACT1	638.96 67619	947.3374605	330.5960633	0.3489 73916	- 1.51880 8888	0.0232 19133	0.2808 55371	Down
CSGALN ACT2	723.78 51155	1015.939392	431.6308388	0.4248 58847	- 1.23494 4488	0.0233 27955	0.2819 26484	Down
CSRP1	17817. 11205	29723.96237	5910.261722	0.1988 38286	- 2.33033 2525	0.0320 64397	0.3356 31001	Down
CSRP2	900.44 70995	1246.852226	554.0419726	0.4443 52555	- 1.17022 3311	0.0169 99338	0.2362 13617	Down
CST3	16655. 33708	29701.36776	3609.306397	0.1215 19872	- 3.04073 5844	0.0035 3748	0.0931 73424	Down
CTGF	19689. 00925	34259.54367	5118.474838	0.1494 0289	- 2.74272 0038	0.0272 57528	0.3069 56512	Down
CTHRC1	703.02 74514	1367.134474	38.92042918	0.0284 68618	- 5.13448 3727	0.0015 69377	0.0550 13856	Down
CTLA4	7.6491 14274	1.49958676	13.79864179	9.2016 29513	3.20188 937	0.0383 15967	0.3721 14236	Up
CTSC	4326.3 63162	2097.468472	6555.257852	3.1253 18897	1.64400 3405	0.0052 37739	0.1164 28019	Up
CTSK	5418.3 56271	7955.457122	2881.25542	0.3621 73459	- 1.46524 7271	0.0435 26165	0.3978 9588	Down
CTSV	1898.3 54256	2815.792225	980.9162864	0.3483 62453	- 1.52133 8959	0.0391 21976	0.3772 28151	Down
CTSW	424.44 56536	218.1301702	630.7611369	2.8916 73061	1.53190 4447	0.0032 66083	0.0884 54783	Up
CWH43	23.283 0842	3.019344955	43.54682344	14.422 60626	3.85025 9987	0.0174 98545	0.2405 78232	Up
CX3CL1	1530.8 11431	574.3812847	2487.241577	4.3302 97039	2.114465 991	5.44E- 05	0.0056 52549	Up
CXADR	222.69 65159	71.62388096	373.7691509	5.2184 98996	2.38363 4902	0.0131 4655	0.2041 53801	Up
CXCL13	12.373 20193	3.108732535	21.63767133	6.9602 87219	2.79914 6841	0.0225 09897	0.2755 10556	Up

CXCL17	154.57 05031	26.49236845	282.6486377	10.669 05884	3.41536 101	0.0145 79843	0.2162 20103	Up
CXCL3	2238.6 28644	683.2260794	3794.031209	5.5531 12394	2.47329 6596	3.53E- 06	0.0008 14459	Up
CXCR4	505.22 89813	291.0186122	719.4393504	2.4721 42056	1.30576 1647	0.0092 74558	0.1614 56323	Up
CYB561	876.08 57422	461.7819537	1290.389531	2.7943 69768	1.48252 294	0.0078 39954	0.1456 46579	Up
CYB5R2	70.773 09228	125.1140072	16.4321774	0.1313 37632	- 2.92864 7748	0.0023 05478	0.0697 96997	Down
CYP11A1	1190.2 63961	45.33283502	2335.195086	51.512 22255	5.68684 2883	0.0009 54358	0.0392 37474	Up
CYP1B1	65.397 99366	33.58596696	97.21002037	2.8943 64199	1.53324 6468	0.0137 52186	0.2088 72938	Up
CYP24A1	34.239 18678	5.533299842	62.94507371	11.375 68458	3.50788 1464	0.0042 31823	0.1025 61821	Up
CYP27C1	7.7308 66703	0.684165227	14.77756818	21.599 41428	4.43292 0285	0.0080 37129	0.1468 81794	Up
CYP4F2	7.9257 72685	1.698533355	14.15301201	8.3324 89895	3.05874 7663	0.0472 46303	0.4173 03667	Up
DAAM2	1467.3 89548	2319.503182	615.2759145	0.2652 6194	- 1.91451 0402	2.77E- 05	0.0034 31964	Down
DAB2	2369.5 67105	3917.561056	821.5731553	0.2097 15469	- 2.25349 4812	0.0027 41637	0.0797 78091	Down
DACT1	787.03 52977	1085.665414	488.4051814	0.4498 67128	- 1.15242 9144	0.0301 24701	0.3240 87515	Down
DACT2	213.16 39521	411.9818044	14.34609972	0.0348 22168	- 4.84385 0151	1.83E- 13	1.22E- 09	Down
DACT3	358.24 31207	622.6853077	93.80093367	0.1506 39388	- 2.73082 9051	0.0162 21198	0.2291 48319	Down
DBN1	2880.9 52258	4530.096721	1231.807795	0.2719 16445	- 1.87876 4691	0.0001 61276	0.0118 37626	Down
DCHS1	1904.7 87841	2661.264634	1148.311048	0.4314 90741	- 1.21259 8494	0.0240 93038	0.2863 81143	Down
DCLK1	1686.9 93336	3186.498689	187.4879834	0.0588 38243	- 4.08710	0.0002 46483	0.0158 87118	Down

					203				
DCLK2	285.32 95368	388.4473592	182.2117144	0.4690 76981	- 1.09210 3391	0.0468 95157	0.4156 31148	Down	
DCN	63743. 96298	119303.2394	8184.686529	0.0686 04059	- 3.86556 2244	0.0041 18929	0.1014 37129	Down	
DCUNID 3	596.84 16987	802.4111756	391.2722218	0.4876 20604	- 1.03616 9009	0.0464 92502	0.4141 29347	Down	
DDAH2	1702.8 99186	2650.512276	755.2860949	0.2849 58535	- 1.811176 091	0.0001 518	0.0114 21844	Down	
DDIT4L	274.85 08764	473.5349096	76.16684325	0.1608 47367	- 2.63623 5778	0.0376 97043	0.3692 2981	Down	
DDR1	3071.4 21835	1718.206159	4424.637511	2.5751 49372	1.36465 6118	0.0085 65628	0.1537 2824	Up	
DDR2	4806.1 23402	6430.889885	3181.356919	0.4946 9933	- 1.01537 6148	0.0390 71557	0.3769 44108	Down	
DEFB4A	61.166 4162	1.038127555	121.2947048	116.83 98857	6.86838 9042	0.0003 82606	0.0213 0154	Up	
DEFB5	90.526 03947	0.728859017	180.3232199	247.40 48007	7.95072 9685	2.32E- 06	0.0005 94874	Up	
DEGS2	82.980 4051	9.036704518	156.9241057	17.365 19163	4.118126 426	0.0001 91856	0.0135 83244	Up	
DENND2 A	576.75 82851	1005.261173	148.2553974	0.1474 79482	- 2.76141 3837	9.22E- 08	4.73E- 05	Down	
DENND2 D	945.70 18269	452.5871956	1438.816458	3.1790 92276	1.66861 4893	0.0191 08846	0.2515 62502	Up	
DEPDC1	72.075 34027	110.373394	33.77728657	0.3060 27434	- 1.70826 7103	0.0271 72874	0.3065 55704	Down	
DEPDC7	107.48 70902	66.00825827	148.9659222	2.2567 77047	1.17426 3898	0.0489 45966	0.4248 27876	Up	
DES	72681. 926	142468.2969	2895.555119	0.0203 24207	- 5.62065 7146	0.0016 44187	0.0566 42558	Down	
DFNB59	34.758 72216	56.62626423	12.89118009	0.2276 53727	- 2.13508 7017	0.0179 98744	0.2439 12138	Down	
DGKG	130.94	251.0000446	10.88466971	0.0433	-	0.0043	0.1043	Down	

	23572			6521	4.52731 8085	53307	80703	n
DHRS13	171.13 33419	85.28673348	256.9799502	3.0131 29238	1.59126 2554	0.0070 0544	0.1372 31843	Up
DIP2C	1321.6 11479	1844.376425	798.846533	0.4331 25539	- 1.20714 2852	0.0119 4535	0.1924 84974	Down
DKK2	117.16 19271	185.421152	48.90270215	0.2637 3853	- 1.92281 974	0.0170 73357	0.2369 06001	Down
DKK3	2221.3 70841	3679.633242	763.1084404	0.2073 87093	- 2.26960 1988	0.0139 85206	0.2108 08596	Down
DLC1	1342.4 77312	1889.329765	795.624859	0.4211 1487	- 1.24771 4275	0.0077 20676	0.1443 34849	Down
DLGAP1	74.284 0733	39.09064921	109.4774974	2.8006 05761	1.48573 8911	0.0468 37267	0.4153 2277	Up
DLGAP4	1423.0 46551	1906.844942	939.2481593	0.4925 66616	- 1.02160 9245	0.0367 87876	0.3642 93155	Down
DLGAP5	86.352 09698	128.4805925	44.22360144	0.3442 04526	- 1.53866 2027	0.0364 99571	0.3626 36342	Down
DLK2	435.07 68722	124.0609099	746.0928345	6.0139 23605	2.58830 6541	0.0005 64814	0.0282 14009	Up
DMBT1	79.245 96495	27.05245335	131.4394765	4.8586 89703	2.28056 7299	0.0140 9506	0.2114 02383	Up
DMD	1189.2 53328	1701.506051	677.0006055	0.3978 83161	- 1.32958 3253	0.0234 16426	0.2826 15829	Down
DMGDH	161.49 51665	49.69759614	273.2927369	5.4991 13803	2.45919 9143	6.94E- 05	0.0066 01331	Up
DMKN	8.6992 98916	16.89258462	0.506013211	0.0299 54754	- 5.06107 122	0.0048 03146	0.1107 37156	Down
DMP1	31.399 73701	2.757595272	60.04187875	21.773 27448	4.44448 6485	0.0002 00847	0.0140 63107	Up
DMPK	4307.0 41833	8009.100723	604.982943	0.0755 36938	- 3.72667 3891	0.0038 92376	0.0991 45334	Down
DMRT2	431.09 05007	747.7030906	114.4779107	0.1531 06109	- 2.70739 6249	6.70E- 05	0.0065 10633	Down

DMRTA1	15.693 7531	4.387675409	26.99983078	6.1535 6157	2.62142 1658	0.0143 81476	0.2144 9104	Up
DMTN	60.348 7055	86.10625025	34.59116076	0.4017 26479	- 1.31571 4537	0.0133 88747	0.2063 15204	Down
DMXL2	252.68 06657	379.4219632	125.9393683	0.3319 24297	- 1.59107 3857	0.0044 46197	0.1060 2655	Down
DNAH1	134.95 13903	236.4707508	33.43202972	0.1413 79133	- 2.82235 8896	8.08E- 06	0.0014 10613	Down
DNAJA4	721.18 73734	1072.337774	370.036973	0.3450 75015	- 1.53501 8076	0.0455 75086	0.4087 66466	Down
DNAJB5	337.53 7863	586.5016774	88.57404854	0.1510 20964	- 2.72717 9266	0.0157 4602	0.2253 90999	Down
DNAJC6	121.30 41092	43.4365962	199.1716223	4.5853 41387	2.19702 9149	0.0009 04165	0.0381 68083	Up
DNM1	1148.4 07533	2042.635203	254.1798621	0.1244 37228	- 3.00650 9935	0.0016 0763	0.0559 18788	Down
DPT	4062.9 28243	7197.696187	928.1602997	0.1289 52414	- 2.95508 9312	0.0004 31554	0.0230 97147	Down
DPY19L2	36.757 27682	68.49218097	5.02237267	0.0733 27679	- 3.76949 8312	0.0136 03504	0.2080 20251	Down
DPYSL3	4842.1 52619	8078.055525	1606.249714	0.1988 41133	- 2.330311 865	0.0020 76108	0.0656 14492	Down
DRAM1	695.25 06588	374.4303301	1016.070988	2.7136 44985	1.44023 1991	0.0061 47111	0.1273 23742	Up
DRP2	13.780 0661	27.5601322	0	0	#NAME ?	1.10E- 05	0.0017 41648	Down
DSC3	1079.3 34836	507.8306032	1650.839069	3.2507 67202	1.70078 0244	0.0009 55681	0.0392 37474	Up
DSE	746.65 74556	1114.469096	378.8458156	0.3399 33891	- 1.55667 3893	0.0049 62924	0.1127 40832	Down
DSEL	914.59 7485	1421.565115	407.6298548	0.2867 47227	- 1.80214 856	0.0376 50464	0.3689 74545	Down
DSG2	1047.6	311.0948553	1784.252809	5.7353	2.51989	2.91E-	0.0006	Up

	73832			97995	3602	06	98327	
DSG3	476.34 27443	58.17051651	894.5149721	15.377 46312	3.94274 561	9.00E- 06	0.0015 26844	Up
DSP	5334.1 36359	1878.763723	8789.508996	4.6783 47195	2.22599 8933	0.0009 76937	0.0397 47198	Up
DST	8477.2 93734	11382.04664	5572.540828	0.4895 90405	- 1.03035 281	0.0350 44949	0.3542 51441	Down
DSTN	10056. 82954	16333.26545	3780.393628	0.2314 53633	- 2.111204 887	0.0428 29697	0.3941 39019	Down
DTX1	476.76 50598	685.1907647	268.339355	0.3916 27221	- 1.35244 7049	0.0044 14922	0.1054 65943	Down
DTX4	941.02 32851	1390.821163	491.225407	0.3531 90921	- 1.50147 9839	0.0228 41392	0.2784 79148	Down
DUPD1	5.4097 21886	0	10.81944377	Inf	Inf	0.0062 95265	0.1286 45163	Up
DUSP8	109.08 81483	149.5174098	68.65888689	0.4592 03293	- 1.12279 5108	0.0187 72317	0.2491 38432	Down
DUSP9	8.6190 1565	16.01565921	1.222372091	0.0763 23558	- 3.711727 767	0.0331 50418	0.3430 0573	Down
DZIP1	972.83 45821	1539.320022	406.3491423	0.2639 79638	- 1.92150 1442	0.0098 61373	0.1690 53452	Down
EBF1	1077.3 28506	1532.139885	622.5171277	0.4063 05673	- 1.29936 2585	0.0030 1335	0.0850 45521	Down
EBF2	251.65 81334	451.9579224	51.35834449	0.1136 35235	- 3.13751 7859	0.0278 25243	0.3096 27791	Down
ECM1	5526.2 90227	9779.193593	1273.386862	0.1302 13892	- 2.94104 4718	0.0108 20223	0.1811 47449	Down
ECM2	7762.2 60134	13328.30762	2196.212644	0.1647 78058	- 2.60140 3952	0.0005 31657	0.0272 38724	Down
EDA	173.22 79689	237.8983005	108.5576372	0.4563 19516	- 1.13188 374	0.0315 58115	0.3333 79686	Down
EDAR	107.88	40.14705541	175.6176215	4.3743	2.12907	0.0128	0.2005	Up

	23384			5871	153	1025	50792	
EFEMP1	3749.4 64606	5846.162974	1652.766238	0.2827 09573	- 1.82260 7359	0.0114 06478	0.1869 85142	Dow n
EFEMP2	2286.8 55337	4027.60792	546.1027532	0.1355 8985	- 2.88267 8911	0.0011 43798	0.0442 95496	Dow n
EFNA1	1577.8 00695	820.6900378	2334.911352	2.8450 58724	1.50845 8431	0.0033 015	0.0890 11076	Up
EFNA4	183.55 32596	116.6267107	250.4798084	2.1477 05332	1.10279 6067	0.0490 10583	0.4251 60309	Up
EGFLAM	530.69 66214	779.4762474	281.9169955	0.3616 74902	- 1.46723 4607	0.0108 58811	0.1814 81405	Dow n
EGR3	141.95 76041	235.3882674	48.52694072	0.2061 57007	- 2.27818 4597	0.0162 36045	0.2291 78021	Dow n
ELF3	599.83 26543	101.8605848	1097.804724	10.777 5223	3.42995 3642	0.0005 9958	0.0295 40385	Up
ELMO3	849.46 64435	310.9902698	1387.942617	4.4629 77629	2.15800 6575	9.35E- 05	0.0081 27365	Up
ELN	59291. 3589	114551.2398	4031.478031	0.0351 93666	- 4.82854 0402	0.0068 97534	0.1357 0935	Dow n
ELOVL5	330.57 00556	113.5153507	547.6247605	4.8242 35288	2.27030 0272	0.0162 84578	0.2293 79036	Up
EMILIN1	3357.0 11432	5332.49563	1381.527234	0.2590 7705	- 1.94854 6875	0.0410 58922	0.3847 36043	Dow n
EMILIN2	1470.7 18626	2412.52675	528.9105024	0.2192 35083	- 2.18944 9411	5.79E- 05	0.0059 13394	Dow n
EML1	366.16 33751	557.3844476	174.9423027	0.3138 62906	- 1.67179 356	0.0006 98235	0.0328 63302	Dow n
EML5	337.93 0768	222.4669073	453.3946286	2.0380 31787	1.02717 6553	0.0426 62777	0.3938 42261	Up
EMP1	7970.1 33448	11781.13887	4159.128026	0.3530 32765	- 1.50212 601	0.0017 86779	0.0598 7193	Dow n
EMP3	1395.5 22833	2323.900852	467.1448138	0.2010 17532	- 2.31460 6762	7.54E- 06	0.0013 95796	Dow n
EMX2	300.10	570.0193248	30.19946196	0.0529	-	0.0070	0.1377	Dow

	93934			79716	4.23841 6079	52574	05147	n
EN1	82.463 91676	138.1172417	26.81059182	0.1941 14735	- 2.36501 8457	0.0396 55805	0.3798 25173	Dow n
ENDOU	20.704 42922	8.097598648	33.31125978	4.1137 20775	2.04044 3872	0.0319 5184	0.3353 8392	Up
ENPEP	180.50 08235	284.533182	76.46846504	0.2687 50606	- 1.89566 0088	0.0005 75734	0.0286 79846	Dow n
ENPPI	6738.9 64539	12966.55928	511.3697949	0.0394 37586	- 4.66428 4949	0.0050 04544	0.1132 03416	Dow n
ENTPD1	552.83 2302	781.8481032	323.8165008	0.4141 68045	- 1.271711 846	0.0199 27914	0.2589 33287	Dow n
ENTPD2	2497.1 15245	647.4294139	4346.801076	6.7139 38204	2.74715 9258	0.0328 13977	0.3405 04178	Up
ENTPD3	39.512 36685	12.28273947	66.74199423	5.4338 03622	2.44196 2428	0.0248 82695	0.2903 73458	Up
EPCAM	1789.7 48727	715.7810976	2863.716357	4.0008 27021	2.00029 8254	0.0001 53668	0.0115 14193	Up
EPDR1	490.87 59296	814.0512176	167.7006415	0.2060 07482	- 2.27923 136	0.0044 56056	0.1060 2655	Dow n
EPHA1	314.43 52992	114.7680478	514.1025507	4.4794 91991	2.16333 5129	8.91E- 05	0.0079 36352	Up
EPHA3	267.69 99452	407.1287714	128.2711191	0.3150 62771	- 1.66628 8803	0.0104 62262	0.1764 94239	Dow n
EPHB1	69.445 1621	116.7752013	22.11512287	0.1893 82014	- 2.40062 877	0.0095 68818	0.1649 81835	Dow n
EPHB2	139.84 80741	244.0842898	35.61185836	0.1458 99838	- 2.77694 9812	1.79E- 05	0.0024 60783	Dow n
EPHB6	302.86 55138	78.16349877	527.5675287	6.7495 38302	2.75478 8819	0.0049 8249	0.1128 4649	Up
EPN3	178.40 86866	88.80443282	268.0129403	3.0180 13086	1.59359 9061	0.0040 05299	0.0998 99158	Up
EPOR	78.204 5606	127.2297883	29.17933294	0.2293 43563	- 2.12441 768	0.0192 35066	0.2520 32404	Dow n
EPPK1	374.77	133.1928207	616.3594578	4.6275	2.21025	9.06E-	0.0079	Up

	61393			72677	5648	05	89441	
EPS8L1	328.14 65066	145.6272153	510.6657978	3.5066 6458	1.81009 944	0.0014 76709	0.0527 00957	Up
ERAP1	1105.2 94498	641.3436725	1569.245324	2.4468 08772	1.29090 1353	0.0324 73989	0.3387 35349	Up
ERBB2	2707.2 54872	1633.265697	3781.244047	2.3151 43246	1.211101 461	0.0272 29722	0.3069 56512	Up
ERBB3	2275.6 82204	830.6370029	3720.727404	4.4793 66307	2.16329 465	0.0014 79952	0.0527 00957	Up
ERBB4	57.480 49225	24.93639166	90.02459284	3.6101 69189	1.85206 645	0.0066 99502	0.1329 28964	Up
EREG	14.792 14645	3.198120115	26.38617278	8.2505 25882	3.04448 6079	0.0442 47439	0.4016 66679	Up
ERMAP	71.198 94693	104.2410229	38.156871	0.3660 44672	- 1.44990 8371	0.0202 49968	0.2608 56148	Down
ERN2	26.625 5561	9.313738435	43.93737376	4.7174 79889	2.23801 6368	0.0495 92743	0.4274 29088	Up
ESM1	209.66 39731	91.74170647	327.5862397	3.5707 45	1.83622 511	0.0379 36502	0.3704 26665	Up
ESPL1	169.31 49646	240.6764889	97.9534402	0.4069 92144	- 1.29692 7148	0.0405 5294	0.3828 15499	Down
ESRP1	760.60 09366	389.887264	1131.314609	2.9016 45459	1.53687 1253	0.0295 35244	0.3211 19889	Up
ESRRB	161.68 18693	32.69494527	290.6687933	8.8903 28182	3.15223 6676	0.0205 3175	0.2626 04875	Up
ESRRG	173.66 47048	105.4692839	241.8601258	2.2931 80695	1.19735 0039	0.0276 68792	0.3092 30348	Up
EVA1C	364.23 32111	144.6544304	583.8119917	4.0359 08129	2.01289 3334	0.0001 72941	0.0124 89974	Up
EVC	414.62 99481	652.7972064	176.4626899	0.2703 17777	- 1.88727 1702	0.0004 06735	0.0222 99766	Down
EVC2	333.45 91523	498.6988039	168.2195007	0.3373 16832	- 1.56782 3784	0.0138 84576	0.2096 44266	Down
EVPL	148.47 80893	215.5432079	81.4129708	0.3777 10676	- 1.40464 6532	0.0399 79372	0.3806 98819	Down
EXOC3L4	141.49 28651	32.76941556	250.2163145	7.6356 66072	2.93275 4011	0.0054 82808	0.1182 2222	Up
EXOSC5	363.53 06204	209.7437011	517.3175398	2.4664 27059	1.30242 2622	0.0145 23421	0.2160 00543	Up

EXPH5	52.066 25303	16.89029584	87.24221023	5.1652 26889	2.36883 1723	0.0070 96155	0.1379 5692	Up
EXTL2	237.21 513	362.8604881	111.5697718	0.3074 72914	- 1.70146 8767	0.0059 84973	0.1251 48567	Down
EYA2	126.75 3066	49.46912874	204.0370033	4.1245 31977	2.04423 0422	0.0138 17454	0.2093 3385	Up
F13A1	851.87 34744	1547.634127	156.112822	0.1008 71918	- 3.30940 3507	0.0205 1551	0.2625 83925	Down
F2RL2	498.18 14838	708.5274844	287.8354833	0.4062 44627	- 1.29957 9365	0.0082 81567	0.1498 2637	Down
FABP7	43.080 26472	64.00554119	22.15498825	0.3461 41722	- 1.53056 5248	0.0140 225	0.2108 08596	Down
FAIM	207.98 346	124.4669106	291.5000094	2.3419 87988	1.22773 3676	0.0415 2211	0.3864 86597	Up
FAM102B	731.78 55595	1078.314822	385.2562973	0.3572 7627	- 1.48488 8001	0.0030 75388	0.0853 46759	Down
FAM105A	2292.9 3886	3855.250297	730.6274222	0.1895 14912	- 2.39961 6721	0.0131 69016	0.2041 53801	Down
FAM109B	608.22 49015	1011.031777	205.4180258	0.2031 76627	- 2.29919 3651	7.90E- 06	0.0013 95796	Down
FAM110A	349.61 3754	161.981639	537.245869	3.3167 08439	1.72975 2195	0.0016 88501	0.0575 0816	Up
FAM114A 1	1833.3 7992	2580.541907	1086.217933	0.4209 26291	- 1.24836 0473	0.0052 53187	0.1165 36111	Down
FAM124A	20.019 42048	33.99954037	6.039300589	0.1776 28889	- 2.49306 1857	0.0053 90164	0.1173 83463	Down
FAM131C	19.373 81089	7.454539219	31.29308256	4.1978 5605	2.06965 2696	0.0255 37935	0.2947 2169	Up
FAM13C	652.15 95745	885.7666653	418.5524837	0.4725 31311	- 1.08151 8166	0.0230 73707	0.2798 03347	Down
FAM155A	7.6504 63526	13.79232728	1.508599773	0.1093 79639	- 3.19258 3895	0.0469 94896	0.4163 09961	Down
FAM171B	77.070	117.589097	36.55156701	0.3108	-	0.0079	0.1466	Down

	33201			41464	1.68574 9135	86925	20385	n
FAM174B	417.17 17766	255.2227338	579.1208195	2.2690 80073	1.18210 7521	0.0268 26632	0.3041 76114	Up
FAM180B	202.75 88193	363.2300145	42.28762405	0.1164 21062	- 3.10257 6011	0.0047 29543	0.1099 96813	Down
FAM184A	107.82 54872	32.27611771	183.3748568	5.6814 40946	2.50625 6877	0.0301 32588	0.3240 87515	Up
FAM184B	157.62 69949	43.76778867	271.4862011	6.2028 76804	2.63293 7472	2.22E- 05	0.0028 93421	Up
FAM189A 2	431.31 08466	244.7108544	617.9108387	2.5250 65103	1.33632 0585	0.0238 77603	0.2849 30945	Up
FAM195A	278.47 09696	166.1980531	390.7438861	2.3510 73787	1.23331 9818	0.0494 43514	0.4268 56801	Up
FAM196B	8.5532 09733	17.10641947	0	0	#NAME ?	0.0012 05662	0.0457 34431	Down
FAM221A	63.539 69449	27.72495138	99.3544376	3.5835 74818	1.84139 9476	0.0058 42848	0.1231 80712	Up
FAM26F	46.140 41712	22.554456	69.72637825	3.0914 67967	1.62829 2057	0.0224 38566	0.2753 4556	Up
FAM3B	275.85 35991	51.57247558	500.1347226	9.6977 06325	3.27764 3565	0.0111 50987	0.1841 39764	Up
FAM3C	1103.9 11356	1505.232466	702.5902469	0.4667 65276	- 1.09923 0857	0.0309 28633	0.3293 01125	Down
FAM46A	3306.4 16742	4858.422536	1754.410949	0.3611 07116	- 1.46950 1245	0.0013 5623	0.0493 70604	Down
FAM46B	546.74 83106	877.4515916	216.0450295	0.2462 18745	- 2.02198 7495	0.0136 42606	0.2082 83578	Down
FAM64A	82.148 76874	149.8394181	14.45811942	0.0964 90761	- 3.37346 5385	7.92E- 06	0.0013 95796	Down
FAM69A	374.94 00318	557.9081736	191.97189	0.3440 9227	- 1.53913 2612	0.0060 75524	0.1266 99009	Down
FAM73A	412.07 17029	587.5358093	236.6075964	0.4027 11788	- 1.31218 0391	0.0125 35518	0.1984 38578	Down
FAM83A	4.7914 25684	0	9.582851368	Inf	Inf	0.0111 34212	0.1841 27202	Up
FAM83B	47.359	14.03483779	80.68332332	5.7487	2.52325	0.0063	0.1296	Up

	08056			89157	8119	71595	15837	
FAM83D	136.01 2896	243.8238061	28.20198589	0.1156 65432	- 3.111970 331	0.0124 8255	0.1981 23304	Down
FAM83H	835.07 85281	435.7364168	1234.420639	2.8329 52656	1.50230 6492	0.0062 61424	0.1286 45163	Up
FAP	590.97 65712	995.2538353	186.6993071	0.1875 89638	- 2.41434 7952	0.0039 78321	0.0998 09354	Down
FAS	467.27 15503	277.3917792	657.1513215	2.3690 36759	1.24430 0584	0.0246 57506	0.2886 82252	Up
FAT2	455.40 84207	212.9379493	697.8788921	3.2773 81484	1.71254 3611	0.0210 50257	0.2665 82238	Up
FAT3	134.55 05014	264.0168474	5.084155416	0.0192 56936	- 5.69847 8051	0.0178 15347	0.2423 39933	Down
FAT4	1545.3 51434	2124.682007	966.0208604	0.4546 6609	- 1.13712 0686	0.0242 73879	0.2863 81143	Down
FBLIM1	2069.7 20802	2813.176762	1326.264841	0.4714 4739	- 1.08483 131	0.0253 59623	0.2941 48968	Down
FBLN1	11346. 57223	19464.07882	3229.065638	0.1658 98714	- 2.59162 5396	1.08E- 07	5.23E- 05	Down
FBLN2	8664.7 09128	14191.40393	3138.014326	0.2211 20781	- 2.17709 3476	0.0015 44568	0.0546 77084	Down
FBLN5	2662.9 55773	3804.127299	1521.784247	0.4000 35048	- 1.32180 1691	0.0064 60973	0.1311 37331	Down
FBLN7	484.51 71092	807.1039081	161.9303102	0.2006 31305	- 2.31738 1365	0.0010 62667	0.0417 24778	Down
FBN1	27646. 27257	51353.16552	3939.379614	0.0767 11524	- 3.70441 2857	8.20E- 05	0.0073 7089	Down
FBP2	57.587 00378	25.79560375	89.37840381	3.4648 69621	1.79280 1067	0.0143 56014	0.2144 9104	Up
FBXL8	83.737 10073	128.2296641	39.24453734	0.3060 4882	- 1.70816 6291	0.0077 07222	0.1443 34849	Down
FBXO17	127.91 15542	188.1696826	67.65342571	0.3595 34144	- 1.47579	0.0171 52516	0.2376 37666	Down

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FCER1A	44.212 68514	70.08646676	18.33890351	0.2616 61122	- 1.93422 8514	0.0151 35009	0.2210 99002	Down	
FERMT2	4103.0 69557	6384.791784	1821.347331	0.2852 63387	- 1.80963 3502	0.0040 43338	0.1005 23131	Down	
FEZ1	143.25 4561	231.7474449	54.76167704	0.2362 98946	- 2.08131 4899	0.0305 28157	0.3269 73112	Down	
FGD3	247.98 72803	145.4891816	350.485379	2.4090 13337	1.26844 2381	0.0129 93556	0.2024 81037	Up	
FGF10	22.867 57445	37.71457745	8.020571452	0.2126 65022	- 2.23334 5327	0.0485 29969	0.4226 44796	Down	
FGF16	15.295 22399	28.03647966	2.553968317	0.0910 94472	- 3.45649 2679	0.0086 10313	0.1542 22373	Down	
FGF18	29.551 3874	56.37646234	2.726312455	0.0483 59055	- 4.37007 013	0.0331 4209	0.3430 0573	Down	
FGFBP1	5554.9 53248	1936.270951	9173.635545	4.7377 85041	2.24421 2743	0.0186 80793	0.2482 9024	Up	
FGFR3	32.909 36048	12.79454259	53.02417837	4.1442 8089	2.051121 789	0.0114 93412	0.1878 96387	Up	
FGFR4	39.497 18968	17.2942061	61.70017326	3.5676 78846	1.83498 5753	0.0227 18482	0.2773 56735	Up	
FGG	560.17 48239	161.2133984	959.1362493	5.9494 82232	2.57276 412	0.0181 75374	0.2451 8736	Up	
FGL2	1775.7 77	2981.474612	570.0793878	0.1912 07192	- 2.38679 1307	0.0254 00132	0.2941 48968	Down	
FHL1	10966. 09282	18137.46231	3794.723336	0.2092 20191	- 2.25690 6005	0.0036 7275	0.0955 81857	Down	
FHOD3	349.16 65326	524.3210742	174.011991	0.3318 80597	- 1.59126 3809	0.0065 77882	0.1315 79591	Down	
FIBIN	132.49 36604	223.2640494	41.72327128	0.1868 78592	- 2.41982 6783	0.0009 31727	0.0386 9573	Down	
FIGF	696.21 88332	1212.881126	179.5565406	0.1480 41335	- 2.75592 8048	0.0459 80081	0.4107 59961	Down	

FIGNL2	131.21 04111	184.1813109	78.23951128	0.4247 96147	- 1.23515 7413	0.0244 13682	0.2865 8018	Dow n
FILIP1L	3594.8 20377	6059.547598	1130.093156	0.1864 97942	- 2.42276 8385	0.0041 7225	0.1021 75662	Dow n
FKBP10	2630.6 67187	4739.110051	522.2243232	0.1101 94597	- 3.18187 4604	2.30E- 05	0.0029 79023	Dow n
FKBP14	953.37 37422	1418.607261	488.140223	0.3440 98213	- 1.53910 7697	0.0020 67822	0.0654 67676	Dow n
FKBP7	927.07 83024	1640.953066	213.2035383	0.1299 26652	- 2.94423 069	0.0006 85496	0.0324 40215	Dow n
FKBP9	3905.9 31137	5722.561611	2089.300663	0.3650 9885	- 1.45364 097	0.0031 66707	0.0866 77159	Dow n
FLNA	92020. 71923	146706.0136	37335.42483	0.2544 91441	- 1.97431 0958	0.0390 25534	0.3767 0599	Dow n
FLNC	9893.8 58348	18736.77173	1050.944966	0.0560 8997	- 4.156113 376	0.0052 14285	0.1160 50112	Dow n
FLRT2	1636.4 52511	2823.820135	449.084888	0.1590 34523	- 2.65258 8118	4.24E- 06	0.0009 19069	Dow n
FLT4	772.23 01335	1346.293584	198.1666828	0.1471 94256	- 2.76420 6719	2.35E- 06	0.0005 94874	Dow n
FMO4	585.27 19585	260.2757305	910.2681865	3.4973 22569	1.80625 0866	0.0208 72919	0.2648 48106	Up
FMOD	10047. 59046	17235.07086	2860.11006	0.1659 47102	- 2.59120 4661	0.0049 27027	0.1125 82891	Dow n
FN1	10089 0.4649	179416.7939	22364.136	0.1246 49067	- 3.00405 6008	0.0072 15157	0.1391 30255	Dow n
FOS	3807.9 4663	7078.180843	537.7124166	0.0759 67601	- 3.71847 1931	0.0175 21347	0.2407 07707	Dow n
FOSB	888.06 3265	1705.542158	70.58437167	0.0413 85299	- 4.59473 782	0.0398 36504	0.3806 98819	Dow n

FOXA1	84.900 36189	13.2789983	156.5217255	11.787 16361	3.55914 4693	2.89E- 07	0.0001 18195	Up
FOXA3	63.016 93013	5.803524718	120.2303355	20.716 7784	4.37272 7767	0.0095 15147	0.1643 71658	Up
FOXI1	111.53 75043	38.92371059	184.151298	4.7310 82808	2.24217 0412	0.0334 09647	0.3439 07089	Up
FOXJ1	31.740 98847	5.420152835	58.0618241	10.712 21161	3.421184 459	0.0229 64372	0.2790 32639	Up
FOXP2	71.607 48804	120.3719485	22.84302755	0.1897 70356	- 2.39767 3447	0.0287 72833	0.3156 93631	Down
FRRS1	241.68 0966	66.46008337	416.9018487	6.2729 66081	2.64914 7762	0.0015 39759	0.0546 14375	Up
FSTL1	19622. 07649	34259.98075	4984.172231	0.1454 80882	- 2.78109 8513	3.22E- 05	0.0038 14515	Down
FSTL3	938.68 09655	1508.406464	368.9554673	0.2445 995	- 2.03150 6639	0.0002 30312	0.0152 61155	Down
FUT11	276.26 79287	397.5157662	155.0200912	0.3899 72183	- 1.35855 6875	0.0051 33621	0.1149 66266	Down
FUT2	96.213 93789	15.83083794	176.5970378	11.155 25524	3.47965 1619	0.0058 44806	0.1231 80712	Up
FUT8	436.35 98536	591.4265366	281.2931705	0.4756 18108	- 1.07212 4451	0.0499 73258	0.4291 63853	Down
FUZ	105.11 05835	60.91302515	149.3081418	2.4511 69376	1.29347 0178	0.0362 0997	0.3612 25864	Up
FXYD1	1259.9 99671	2144.104942	375.8944003	0.1753 153	- 2.511976 191	0.0010 26061	0.0409 12776	Down
FXYD3	94.488 49474	27.77693241	161.2000571	5.8033 7867	2.53689 3068	0.0147 85158	0.2180 14284	Up
FXYD5	1292.8 43143	1815.311841	770.3744452	0.4243 75817	- 1.23658 5649	0.0151 04405	0.2208 3132	Down
FXYD6	4548.0 28052	2877.264844	6218.79126	2.1613 55175	1.111936 169	0.0293 42585	0.3196 88105	Up
FXYD7	15.443 05638	24.53680327	6.349309488	0.2587 66776	- 1.95027 5696	0.0425 49918	0.3931 014	Down
FZD2	271.56 73904	436.2166007	106.91818	0.2451 03419	- 2.02853	0.0027 79078	0.0804 76899	Down

					7489			
FZD3	146.57 469	83.14705265	210.0023273	2.5256 73738	1.33666 8287	0.0220 23199	0.2729 44996	Up
FZD7	859.61 08	389.2500418	1329.971558	3.4167 53797	1.77262 6294	0.0046 20814	0.1083 39122	Up
GABRB1	6.9693 16522	13.44684015	0.491792899	0.0365 7312	- 4.77307 2482	0.0161 63648	0.2286 65812	Down
GABRE	175.67 09375	281.2554563	70.08641865	0.2491 91321	- 2.00467 4273	0.0181 88286	0.2451 8736	Down
GADD45 G	1921.7 43553	3590.295732	253.1913748	0.0705 21036	- 3.82580 2519	9.65E- 06	0.0015 8056	Down
GADL1	65.737 76897	131.2367516	0.238786293	0.0018 19508	- 9.10223 605	0.0103 46099	0.1755 22537	Down
GAL3ST4	338.47 70802	574.8925741	102.0615863	0.1775 31579	- 2.49385 2426	0.0039 52245	0.0998 09354	Down
GALNT15	227.01 50132	323.7461583	130.2838682	0.4024 2599	- 1.31320 4614	0.0164 63404	0.2314 78806	Down
GALNT16	2668.6 82602	4289.777218	1047.587987	0.2442 05686	- 2.03383 1305	5.00E- 05	0.0053 0761	Down
GALNT6	181.30 63448	112.3996182	250.2130715	2.2261 02504	1.15452 0025	0.0257 94383	0.2969 65676	Up
GALNT8	23.510 05675	3.420826136	43.59928737	12.745 25089	3.67188 7868	0.0037 18657	0.0961 00187	Up
GAS1	2061.2 4221	3115.901637	1006.582783	0.3230 47034	- 1.63018 3864	0.0288 09201	0.3157 67335	Down
GAS2L1	807.12 207	1151.908957	462.335183	0.4013 64344	- 1.31701 5637	0.0063 50624	0.1293 35537	Down
GAS7	930.93 5269	1469.54922	392.3213176	0.2669 67116	- 1.90526 6046	0.0004 55572	0.0241 6682	Down
GAT	8.2034 83994	14.6311413	1.775826691	0.1213 73081	- 3.04247 9614	0.0441 85618	0.4014 57376	Down
GATA5	70.517 42506	129.5681641	11.46668598	0.0884 99255	- 3.49819	0.0374 79729	0.3683 04897	Down

					0881			
GCGR	49.427 09542	10.14085621	88.71333463	8.7481 10889	3.12897 1508	0.0003 19867	0.0187 36707	Up
GCLC	613.02 39982	402.5203748	823.5276216	2.0459 27792	1.03275 5228	0.0345 40312	0.3517 20515	Up
GDF1	101.36 66212	156.454636	46.2786064	0.2957 95686	- 1.75732 7083	0.0017 5225	0.0591 19533	Down
GDF10	85.069 57671	147.5776942	22.56145927	0.1528 78519	- 2.70954 239	9.59E- 06	0.0015 8056	Down
GDF11	112.61 97501	196.4127161	28.82678414	0.1467 66384	- 2.76840 6528	0.0077 21188	0.1443 34849	Down
GDF6	36.475 98075	65.84841265	7.103548853	0.1078 77298	- 3.21253 6799	0.0308 90865	0.3290 93852	Down
GEM	3148.1 82123	4900.823341	1395.540905	0.2847 56419	- 1.81219 9731	0.0176 33591	0.2413 27911	Down
GFPT2	1956.7 34558	3649.100279	264.3688366	0.0724 47677	- 3.78691 6768	1.00E- 05	0.0016 27848	Down
GFRA3	99.532 71027	182.3945779	16.67084265	0.0913 99881	- 3.45166 3908	7.74E- 08	4.22E- 05	Down
GFRA4	2437.4 46844	4452.315178	422.5785094	0.0949 12083	- 3.39726 442	0.0001 39834	0.0107 46284	Down
GGT6	177.31 92058	67.58211771	287.0562938	4.2475 18479	2.08662 0224	0.0067 96951	0.1342 51998	Up
GIMAP6	354.32 4754	222.836129	485.8133791	2.1801 37401	1.12441 9062	0.0248 62245	0.2903 23216	Up
GIPC3	81.449 35226	135.7164421	27.18226242	0.2002 87172	- 2.31985 8071	0.0494 05218	0.4267 31044	Down
GJA1	6301.4 46291	11533.76419	1069.128388	0.0926 9553	- 3.43135 6415	0.0394 19059	0.3787 38227	Down
GJB1	52.416 20175	24.55624082	80.27616267	3.2690 73767	1.70888 1932	0.0242 54489	0.2863 81143	Up
GJB3	59.348 48234	12.99066413	105.7063006	8.1370 97499	3.02451 4277	0.0008 35423	0.0367 32075	Up
GJB4	23.005	0.9906087	45.0203807	45.447	5.506119	0.0039	0.0998	Up

	4947			18888	155	64745	09354	
GJB5	20.068 16957	5.402043537	34.73429559	6.4298 43699	2.68478 3668	0.0067 439	0.1334 16456	Up
GJC1	526.44 67258	786.3838035	266.509648	0.3389 05312	- 1.56104 5846	0.0030 35924	0.0850 45521	Down
GLB1	1336.1 09261	1900.776391	771.4421313	0.4058 56331	- 1.30095 8978	0.0325 20789	0.3390 12187	Down
GLB1L	470.95 23528	693.3898838	248.5148218	0.3584 05606	- 1.48033 489	0.0061 20425	0.1272 41164	Down
GLI1	29.744 22917	46.85174316	12.63671519	0.2697 17076	- 1.89048 1231	0.0169 06738	0.2356 85165	Down
GLI2	224.70 96336	354.8520221	94.567245	0.2664 97692	- 1.90780 5055	0.0003 91757	0.0217 4375	Down
GLI3	1192.9 40413	1809.924104	575.9567212	0.3182 21477	- 1.65189 6889	0.0109 74924	0.1825 73604	Down
GLIPR2	1228.6 70899	1745.865864	711.475934	0.4075 20388	- 1.29505 5857	0.0107 94797	0.1810 84728	Down
GLIS2	1150.3 48917	1608.386017	692.3118173	0.4304 38844	- 1.216119 819	0.0089 2223	0.1577 14947	Down
GLRX5	894.24 90499	562.9219894	1225.57611	2.1771 68654	1.12245 317	0.0466 65978	0.4148 26632	Up
GLS	1973.7 4267	2886.210203	1061.275138	0.3677 05421	- 1.44337 7648	0.0064 86191	0.1313 52664	Down
GLT8D2	751.73 11967	1211.777035	291.6853585	0.2407 08769	- 2.05463 9394	0.0332 0968	0.3430 48338	Down
GLYAT	27.602 79288	43.04178376	12.16380201	0.2826 04505	- 1.82314 3629	0.0403 03735	0.3815 3544	Down
GNB4	766.90 81946	1175.675223	358.1411666	0.3046 25937	- 1.71488 931	0.0011 79567	0.0451 3225	Down
GNB5	402.12 01271	612.5140365	191.7262178	0.3130 15223	- 1.67569 5273	0.0011 20067	0.0435 692	Down

GNG4	21.365 51789	41.00265047	1.728385302	0.0421 53014	- 4.56822 0398	0.0004 58297	0.0241 68758	Down
GNG8	11.563 58358	20.42463592	2.702531239	0.1323 17229	- 2.91792 7163	0.0282 82299	0.3122 16446	Down
GNMT	156.28 65758	29.19114461	283.3820071	9.7078 07312	3.27914 5473	1.28E- 07	5.93E- 05	Up
GOLGA7 B	649.81 18802	55.06737602	1244.556384	22.600 61173	4.49828 9917	0.0063 12648	0.1287 07878	Up
GPAT2	22.604 32984	41.20309388	4.005565796	0.0972 1517	- 3.36267 4725	0.0007 81611	0.0353 15839	Down
GPATCH4	332.61 58614	203.0538967	462.1778261	2.2761 33744	1.18658 5332	0.0294 10564	0.3201 51437	Up
GPC6	49.600 20585	78.98281715	20.21759454	0.2559 74594	- 1.96592 7469	0.0080 65198	0.1472 45137	Down
GPHN	1138.1 44179	529.840036	1746.448322	3.2961 80363	1.72079 5187	0.0201 98961	0.2606 22963	Up
GPM6A	369.41 04532	691.0237763	47.79713021	0.0691 68575	- 3.85373 9446	5.02E- 05	0.0053 0761	Down
GPM6B	1251.3 83401	1865.926378	636.8404248	0.3412 99867	- 1.55088 8242	0.0029 80596	0.0848 05899	Down
GPR1	305.34 47929	596.3529258	14.33665986	0.0240 40563	- 5.37838 5529	6.94E- 06	0.0013 5665	Down
GPR110	224.53 18157	13.5499861	435.5136453	32.141 2614	5.00635 4644	0.0045 30071	0.1070 48899	Up
GPR132	125.83 56652	71.98473868	179.6865918	2.4961 76205	1.31971 9777	0.0160 3868	0.2283 63882	Up
GPR133	1824.1 90906	3433.54145	214.8403629	0.0625 7107	- 3.99836 0411	1.75E- 06	0.0005 1525	Down
GPR143	40.178 89966	16.51616208	63.84163725	3.8654 03897	1.95061 917	0.0318 57479	0.3350 25167	Up
GPR153	881.79 78888	1501.816683	261.7790946	0.1743 08288	- 2.52028 6928	1.47E- 06	0.0004 47737	Down
GPR162	76.166 68339	139.4484254	12.88494134	0.0923 99332	- 3.43597 377	0.0011 21756	0.0435 692	Down

GPR173	302.38 39221	481.0292479	123.7385964	0.2572 37157	- 1.95882 9042	0.0002 76861	0.0169 34675	Down
GPR63	508.94 96804	734.7683384	283.1310224	0.3853 33727	- 1.37581 9628	0.0331 96833	0.3430 48338	Down
GPR84	36.563 3387	7.030061538	66.09661587	9.4019 9677	3.23296 7185	0.0101 92216	0.1735 6687	Up
GPRC5A	425.19 08476	712.1489624	138.2327329	0.1941 06486	- 2.36507 9766	0.0291 96133	0.3185 88632	Down
GPRIN2	143.27 22282	35.38126226	251.1631941	7.0987 62963	2.82756 7641	3.88E- 06	0.0008 63637	Up
GPSM1	1100.5 1002	1486.791369	714.2286713	0.4803 82578	- 1.05774 4264	0.0487 32156	0.4237 67101	Down
GPX2	22.299 2889	2.474911226	42.12366658	17.020 27375	4.08918 2336	0.0072 14962	0.1391 30255	Up
GPX3	10861. 96322	19817.15624	1906.770202	0.0962 18155	- 3.37754 7061	0.0185 90948	0.2474 42548	Down
GPX7	758.31 35673	1373.198185	143.42895	0.1044 48835	- 3.25913 17	0.0001 02251	0.0086 73458	Down
GPX8	1065.8 60443	1497.886725	633.83416	0.4231 52265	- 1.24075 1207	0.0154 01479	0.2235 38982	Down
GRB7	305.27 88607	95.64331811	514.9144033	5.3836 94476	2.42859 6539	2.43E- 05	0.0030 75911	Up
GREB1	1757.0 8425	3472.015866	42.1526338	0.0121 4068	- 6.36400 6953	4.52E- 07	0.0001 7305	Down
GRHL2	538.95 31659	257.3104303	820.5959016	3.1891 28015	1.67316 201	0.0018 69716	0.0611 18937	Up
GRHL3	115.50 01351	34.35596082	196.6443093	5.7237 31913	2.51695 6101	0.0160 00453	0.2280 00119	Up
GRID1	126.46 99276	232.4453519	20.4945034	0.0881 69126	- 3.50358 2639	0.0306 46081	0.3276 50696	Down
GRK5	1368.7 61592	1916.773215	820.7499681	0.4281 93571	- 1.22366 4959	0.0138 97757	0.2096 6725	Down
GRM8	19.003 00047	34.29132224	3.714678705	0.1083 27077	- 3.20653	0.0293 50223	0.3196 88105	Down

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GSAP	357.79 22844	190.2696399	525.314929	2.7608 97269	1.46513 7207	0.0048 20313	0.1108 4871	Up
GSC	28.895 00599	45.66396941	12.12604257	0.2655 49463	- 1.91294 7482	0.0179 54341	0.2434 93904	Down
GSDMC	3.5572 23507	0	7.114447015	Inf	Inf	0.0371 47936	0.3666 4727	Up
GSN	48875. 81075	73899.2044	23852.4171	0.3227 69606	- 1.63142 3362	0.0278 52036	0.3096 27791	Down
GSTA4	494.20 16575	718.8185755	269.5847396	0.3750 38638	- 1.41488 8859	0.0044 57325	0.1060 2655	Down
GTF3C1	3475.9 81991	2315.476724	4636.487258	2.0023 89923	1.00172 2936	0.0314 3534	0.3329 77961	Up
GUCY2D	270.73 58972	49.84416572	491.6276286	9.8632 93357	3.30206 9443	0.0229 18181	0.2790 32639	Up
GUSB	893.01 36853	1207.288641	578.73873	0.4793 70641	- 1.06078 654	0.0305 09089	0.3269 73112	Down
GZMB	6.0049 58345	11.50390348	0.506013211	0.0439 86218	- 4.50680 4614	0.0307 64762	0.3286 94256	Down
HAND2	57.618 91117	103.4503503	11.787472	0.1139 43278	- 3.13361 2282	0.0106 97123	0.1798 25714	Down
HAPLN3	485.42 50947	686.4378448	284.4123446	0.4143 30805	- 1.271145 009	0.0212 14733	0.2674 98264	Down
HAS1	16.045 43571	32.09087142	0	0	#NAME ?	0.0075 57346	0.1435 49614	Down
HCN1	69.543 60417	137.0440337	2.043174653	0.0149 08892	- 6.06768 3178	0.0016 9921	0.0577 63491	Down
HEATR5A	1279.6 82701	1787.680141	771.6852612	0.4316 68531	- 1.21200 4171	0.0208 83869	0.2648 48106	Down
HENMT1	56.315 10453	91.89534001	20.73486904	0.2256 35696	- 2.14793 2769	0.0241 92185	0.2863 81143	Down
HEPACA M2	389.74 66432	82.04177109	697.4515154	8.5011 75756	3.08766 2387	9.44E- 08	4.73E- 05	Up
HGF	245.08	352.3073585	137.8665323	0.3913	-	0.0070	0.1376	Down

	69454			24589	1.35356 2329	43968	87078	n
HHIPL1	428.93 54726	729.3453978	128.5255473	0.1762 20413	- 2.50454 7041	1.83E- 06	0.0005 21221	Dow n
HIC1	315.41 44497	469.0807783	161.7481211	0.3448 19333	- 1.53608 743	0.0006 51085	0.0313 10458	Dow n
HIF3A	135.77 32292	240.1801684	31.36629006	0.1305 94837	- 2.93683 0228	0.0081 64478	0.1483 04852	Dow n
HJURP	103.50 01118	167.4794251	39.52079857	0.2359 74052	- 2.08329 9867	0.0027 64846	0.0801 93898	Dow n
HMCN1	934.40 70934	1560.254569	308.559618	0.1977 62355	- 2.33816 0266	0.0001 28261	0.0101 33618	Dow n
HMGA1	494.50 0872	240.6263434	748.3754007	3.1101 14172	1.63696 7543	0.0075 71958	0.1435 49614	Up
HOMER2	518.34 36459	207.7053025	828.9819893	3.9911 45048	1.99680 2711	0.0002 12535	0.0146 4344	Up
HOMER3	528.07 4799	827.9767411	228.1728569	0.2755 78824	- 1.85946 306	0.0003 67466	0.0206 50456	Dow n
HOOK1	349.00 1415	186.2449971	511.7578329	2.7477 66871	1.45825 9607	0.0200 42485	0.2597 76641	Up
HOOK2	629.68 99181	361.7650945	897.6147416	2.4812 08815	1.311043 156	0.0161 6716	0.2286 65812	Up
HOXA10	131.31 47047	239.6508231	22.97858637	0.0958 83611	- 3.38257 1943	0.0156 39596	0.2251 77623	Dow n
HOXA11	17.375 94645	33.22429237	1.527600538	0.0459 78422	- 4.44289 9234	0.0002 56296	0.0162 28778	Dow n
HOXC10	196.90 39415	339.8610119	53.94687114	0.1587 32156	- 2.65533 3676	5.18E- 05	0.0054 43053	Dow n
HOXC4	96.569 39653	137.0306099	56.1081832	0.4094 57298	- 1.28821 5094	0.0339 83819	0.3480 24493	Dow n
HOXC5	19.802 15177	32.63363899	6.970664544	0.2136 03654	- 2.22699 1766	0.0204 46105	0.2623 69556	Dow n
HOXC6	641.76	1016.434918	267.1022784	0.2627	-	0.0001	0.0101	Dow

	85983			83454	1.92805 3656	29044	33618	n
HOXC8	285.91 53812	450.5148294	121.315933	0.2692 82885	- 1.89280 5556	0.0013 67399	0.0495 76481	Dow n
HOXC9	125.50 636	177.4931485	73.5195715	0.4142 10758	- 1.27156 3072	0.0112 0188	0.1848 10458	Dow n
HOXD3	406.80 94762	547.7514445	265.8675079	0.4853 79839	- 1.04281 391	0.0169 26969	0.2357 84411	Dow n
HOXD4	460.43 00661	650.772459	270.0876732	0.4150 26281	- 1.26872 54	0.0039 53362	0.0998 09354	Dow n
HOXD8	337.71 75811	462.3070637	213.1280984	0.4610 09825	- 1.117130 598	0.0127 59974	0.2000 54592	Dow n
HPDL	39.266 68779	15.15630681	63.37706876	4.1815 6412	2.06404 2685	0.0058 46476	0.1231 80712	Up
HPGDS	8.5971 08609	15.9338436	1.26037362	0.0791 00414	- 3.66017 095	0.0097 34221	0.1672 89951	Dow n
HPN	2175.5 21133	877.7648285	3473.277437	3.9569 56721	1.98439 1286	0.0003 38992	0.0194 76328	Up
HPSE2	106.82 80999	176.6201739	37.03602599	0.2096 93067	- 2.25364 8931	0.0437 14603	0.3988 43073	Dow n
HS3ST2	65.400 34386	122.7325538	8.068133886	0.0657 37521	- 3.92713 9128	0.0036 59645	0.0955 1726	Dow n
HS3ST3B 1	16.157 60575	6.526733607	25.7884779	3.9512 07365	1.98229 3563	0.0415 75869	0.3867 86779	Up
HS6ST2	114.18 2865	45.07554751	183.2901825	4.0662 88545	2.02371 2593	0.0117 45428	0.1907 70149	Up
HSD11B1	115.15 03359	213.0306759	17.26999584	0.0810 68117	- 3.62472 155	0.0037 5301	0.0961 40131	Dow n
HSPA12A	517.44 79466	730.9964595	303.8994337	0.4157 33113	- 1.26627 0432	0.0175 48092	0.2407 91408	Dow n
HSPA2	997.42 89148	1479.072233	515.7855965	0.3487 22385	- 1.51984 912	0.0076 43924	0.1436 3708	Dow n
HSPA4L	223.91	103.0389511	344.7995951	3.3463	1.74256	0.0224	0.2753	Up

	92731			03426	8268	55543	4556	
HSPB6	4173.5 23945	7812.571616	534.4762748	0.0684 12336	- 3.86959 9696	0.0015 93099	0.0556 28549	Dow n
HSPB7	370.30 2306	671.0220582	69.58255379	0.1036 96373	- 3.26956 2658	0.0127 16894	0.1999 81294	Dow n
HTR2A	108.61 36092	188.8176824	28.409536	0.1504 60146	- 2.73254 6703	0.0056 6741	0.1207 54788	Dow n
HTRA1	8477.4 31651	12560.57588	4394.287427	0.3498 47608	- 1.51520 1467	0.0014 10201	0.0506 18049	Dow n
HTRA3	1641.8 66222	2706.884745	576.8476985	0.2131 03901	- 2.23037 1093	0.0001 00955	0.0086 04179	Dow n
HYAL1	332.76 64544	461.2157954	204.3171133	0.4429 96782	- 1.17463 1875	0.0215 98894	0.2692 75749	Dow n
ID2	1383.5 78419	1987.652563	779.5042743	0.3921 73305	- 1.35043 676	0.0403 11257	0.3815 3544	Dow n
IER3	760.94 28815	1216.413914	305.4718484	0.2511 24921	- 1.99352 2889	0.0277 34727	0.3094 98642	Dow n
IFI44L	476.62 04514	248.7763473	704.4645555	2.8317 18381	1.50167 7794	0.0029 53759	0.0841 79793	Up
IFIH1	467.43 87374	278.1936747	656.6838002	2.3605 27431	1.23910 9248	0.0143 84485	0.2144 9104	Up
IFITM10	16.900 7201	5.134643725	28.66679647	5.5830 15688	2.48104 461	0.0173 00423	0.2389 50465	Up
IFNLR1	30.197 66038	10.03129719	50.36402356	5.0206 89008	2.32788 5364	0.0229 4972	0.2790 32639	Up
IGDCC4	669.52 28733	1258.954163	80.09158312	0.0636 17553	- 3.97443 1311	0.0145 28045	0.2160 00543	Dow n
IGF1	2355.5 14413	4375.723152	335.3056731	0.0766 28631	- 3.70597 2665	0.0001 45681	0.0110 07514	Dow n
IGFALS	89.701 2045	154.8579785	24.54443053	0.1584 9639	- 2.65747 8115	2.62E- 05	0.0032 69438	Dow n
IGFBP4	8101.6 98126	13401.3971	2801.999149	0.2090 82615	- 2.25785	1.17E- 05	0.0018 13817	Dow n

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IGFBP5	8996.2 56168	13647.7638	4344.748539	0.3183 4875	- 1.65131 9997	0.0102 86785	0.1748 46172	Dow n
IGFBP6	3563.5 31147	5676.009801	1451.052493	0.2556 4658	- 1.96777 7369	3.15E- 05	0.0037 78567	Dow n
IPLL1	5439.6 54909	3591.405457	7287.904361	2.0292 62484	1.02095 5489	0.0321 63912	0.3361 17932	Up
IGSF1	35.329 057	67.94136245	2.716751551	0.0399 8671	- 4.64433 5608	0.0008 5112	0.0373 30936	Dow n
IGSF11	22.831 27032	42.24365051	3.418890118	0.0809 32639	- 3.62713 4551	0.0061 3797	0.1273 23742	Dow n
IGSF5	278.03 51988	82.04502118	474.0253764	5.7776 25133	2.53047 6601	0.0481 23889	0.4204 12522	Up
IKBIP	855.47 8467	1217.770394	493.1865399	0.4049 91403	- 1.30403 6813	0.0118 36282	0.1912 41559	Dow n
IKBKE	1937.4 2838	1016.301842	2858.554918	2.8127 02684	1.49195 7061	0.0071 78455	0.1388 06625	Up
IL15RA	407.19 7813	156.2170418	658.1785843	4.2132 31648	2.07492 7239	0.0145 84607	0.2162 20103	Up
IL17D	180.43 26897	272.9482549	87.91712438	0.3221 01801	- 1.634411 369	0.0033 07371	0.0890 11076	Dow n
IL18	306.30 23123	480.5527062	132.0519183	0.2747 91748	- 1.86358 9412	0.0399 20276	0.3806 98819	Dow n
IL18BP	1900.8 60159	402.514527	3399.205792	8.4449 26987	3.07808 495	0.0091 98991	0.1607 96121	Up
IL1RAP	667.38 2962	281.9862047	1052.779719	3.7334 44054	1.90050 7112	0.0471 60033	0.4168 27454	Up
IL1RN	906.94 77885	179.4822259	1634.413351	9.1062 68559	3.18686 0007	0.0189 93226	0.2505 90744	Up
IL20RA	236.50 28168	39.02914534	433.9764883	11.119 29264	3.47499 3107	9.05E- 09	7.75E- 06	Up
IL2RB	437.66 15135	216.8128063	658.5102207	3.0372 29359	1.60275 5859	0.0065 02341	0.1313 83818	Up
IL2RG	425.22 90694	260.4380667	590.0200722	2.2654 90908	1.17982 3701	0.0190 50368	0.2509 7639	Up
IL34	1656.5 59197	604.742122	2708.376273	4.4785 6396	2.16303 621	0.0389 64864	0.3765 2077	Up

IL7	103.49 75333	64.98874725	142.0063193	2.1850 90885	1.12769 3287	0.0470 25368	0.4163 74787	Up
ILDR1	166.68 4129	66.75822099	266.6100371	3.9936 65996	1.99771 368	0.0007 98214	0.0357 07162	Up
ILK	4174.3 41041	5618.918232	2729.763849	0.4858 16617	- 1.04151 6257	0.0420 95697	0.3908 14102	Down
IMPA2	543.90 97618	232.4918786	855.327645	3.6789 5709	1.87929 6849	0.0010 60118	0.0417 15746	Up
INADL	694.82 49193	442.1155946	947.534244	2.1431 82135	1.09975 4461	0.0348 9731	0.3538 76846	Up
INPP5A	1600.1 57111	2303.399312	896.9149104	0.3893 87505	- 1.36072 1505	0.0420 87954	0.3908 14102	Down
IQGAP3	157.62 09276	261.7353663	53.50648899	0.2044 29725	- 2.29032 3108	0.0005 55666	0.0279 90326	Down
IRF6	753.32 64653	328.6945775	1177.958353	3.5837 47447	1.84146 8972	0.0036 98135	0.0959 64724	Up
IRF7	507.07 94112	302.8564801	711.3023424	2.3486 44949	1.23182 8634	0.0182 22364	0.2452 79022	Up
IRX4	442.75 52056	189.3328775	696.1775337	3.6770 02869	1.87853 0302	0.0264 08802	0.3012 86255	Up
ISG20	162.67 17956	84.0903152	241.253276	2.8689 78138	1.52053 6975	0.0088 55542	0.1572 05536	Up
ISL2	73.838 10396	135.2341598	12.44204813	0.0920 03737	- 3.44216 3721	0.0036 89124	0.0958 69237	Down
ISLR	1126.7 79418	1787.172883	466.3859525	0.2609 62975	- 1.93808 296	0.0002 01762	0.0140 63107	Down
ISLR2	263.93 05501	455.3547293	72.50637085	0.1592 30521	- 2.650811 198	0.0299 34963	0.3237 04409	Down
ITFG3	1014.3 23566	1352.966698	675.680434	0.4994 06552	- 1.00171 3345	0.0409 76019	0.3847 36043	Down
ITGA11	1891.9 85653	3614.263506	169.7077995	0.0469 55016	- 4.41257 6917	0.0011 64773	0.0447 56666	Down
ITGA2	194.42 04342	92.47288331	296.3679851	3.2049 1775	1.68028 7332	0.0062 22528	0.1280 31719	Up
ITGA5	7428.8 18989	12182.70825	2674.929723	0.2195 6774	- 2.18726	0.0131 54917	0.2041 53801	Down

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ITGA7	2613.0 62534	4390.976452	835.1486161	0.1901 9656	- 2.39443 6942	0.0083 26354	0.1504 85253	Down	
ITGA8	1930.2 04613	3517.11985	343.2893757	0.0976 05254	- 3.35689 7383	0.0137 27113	0.2088 72938	Down	
ITGA9	529.75 36751	793.8545633	265.6527869	0.3346 36594	- 1.57933 2878	0.0031 7798	0.0867 21734	Down	
ITGB1	23355. 45079	32216.79603	14494.10555	0.4498 9283	- 1.15234 6719	0.0169 95948	0.2362 13617	Down	
ITGB5	4012.9 47945	6019.754976	2006.140914	0.3332 59563	- 1.58528 1819	0.0012 62894	0.0471 17459	Down	
ITGB6	1037.6 23187	180.7564442	1894.48993	10.480 89842	3.38969 0484	0.0003 28652	0.0190 64999	Up	
ITGB8	96.504 96673	53.88785081	139.1220827	2.5816 96626	1.36831 948	0.0427 90125	0.3940 06561	Up	
ITGBL1	1038.4 32248	1878.788364	198.0761329	0.1054 27592	- 3.24567 5605	0.0215 6737	0.2692 75749	Down	
ITIH2	234.25 30985	18.2320418	450.2741551	24.696 85842	4.62625 563	0.0045 3875	0.1070 48899	Up	
ITIH5	3086.6 43463	5274.452291	898.8346361	0.1704 12886	- 2.55289 3665	0.0009 31444	0.0386 9573	Down	
ITK	155.09 23338	81.00245972	229.1822079	2.8293 24057	1.50045 7425	0.0433 31414	0.3967 5602	Up	
ITPRIPL2	1293.7 22896	1788.214215	799.2315762	0.4469 43979	- 1.16183 4084	0.0194 25593	0.2531 8274	Down	
JADE1	2183.5 85934	2969.065937	1398.105931	0.4708 90833	- 1.08653 5458	0.0236 00858	0.2835 09845	Down	
JAZF1	258.61 5547	460.5720096	56.65908433	0.1230 18949	- 3.02304 7545	0.0019 15071	0.0621 6377	Down	
JPH2	1855.7 92099	3068.190319	643.3938783	0.2096 98164	- 2.25361 3861	0.0399 43848	0.3806 98819	Down	
JUND	2544.6 15184	3526.96956	1562.260809	0.4429 47063	- 1.17479	0.0203 54841	0.2618 31984	Down	

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KANK1	3405.9 5557	4971.98105	1839.93009	0.3700 59755	- 1.43416 9847	0.0135 08577	0.2073 28913	Down	
KANK2	3239.3 96573	4756.770763	1722.022383	0.3620 15003	- 1.46587 8606	0.0051 62151	0.1153 17974	Down	
KAZALD 1	80.532 35326	132.9306211	28.13408544	0.2116 44881	- 2.24028 2502	0.0003 66214	0.0206 44582	Down	
KBTBD12	63.042 09263	125.095819	0.98836625	0.0079 00874	- 6.98377 211	0.0313 92905	0.3329 77961	Down	
KCNA6	125.50 37081	213.2348144	37.77260184	0.1771 40876	- 2.49703 0935	0.0010 56992	0.0417 15746	Down	
KCNB1	379.52 20147	118.1836148	640.8604146	5.4225 8261	2.43898 0127	0.0360 05762	0.3604 00722	Up	
KCNB2	48.292 8493	93.77872368	2.806974922	0.0299 31895	- 5.06217 2564	9.48E- 08	4.73E- 05	Down	
KCNE1L	16.008 63808	30.31733149	1.699944677	0.0560 71712	- 4.15658 3073	0.0027 29747	0.0795 60854	Down	
KCNE4	299.99 21544	522.0331312	77.95117766	0.1493 22281	- 2.74349 8647	2.84E- 05	0.0034 97108	Down	
KCNG1	569.53 97912	1123.268881	15.8107013	0.0140 75616	- 6.15065 8141	0.0235 68886	0.2833 60894	Down	
KCNH2	196.97 46367	351.4418638	42.50740957	0.1209 51469	- 3.04749 9807	0.0286 54056	0.3148 89897	Down	
KCNJ10	36.932 80972	2.076255109	71.78936433	34.576 36974	5.111714 5	0.0039 88448	0.0998 09354	Up	
KCNJ11	17.269 9106	3.132491962	31.40732924	10.026 30801	3.32571 8554	0.0022 567	0.0690 18991	Up	
KCNJ15	101.00 33031	43.10147705	158.9051291	3.6867 676	1.88235 6477	0.0061 90449	0.1276 98793	Up	
KCNJ8	478.06 3679	733.2168396	222.9105184	0.3040 17183	- 1.71777 5226	0.0025 91546	0.0765 95778	Down	
KCNK1	402.61 11237	194.0268029	611.1954444	3.1500 56772	1.65537 783	0.0039 7824	0.0998 09354	Up	

KCNK12	120.03 03819	233.3812284	6.679535366	0.0286 20705	- 5.12679 6964	0.0002 27397	0.0152 01785	Down
KCNK2	204.38 27122	69.33252084	339.4329035	4.8957 24248	2.29152 23	6.15E- 05	0.0061 42806	Up
KCNQ3	7.3941 63946	13.51851441	1.26981348	0.0939 31437	- 3.41224 8115	0.0349 80166	0.3538 76846	Down
KCNS3	69.020 70723	99.09521918	38.94619529	0.3930 17903	- 1.34733 3061	0.0127 37597	0.1999 81294	Down
KCNT1	146.15 8804	93.63348235	198.6841256	2.1219 34597	1.08538 019	0.0446 65894	0.4038 3448	Up
KCTD1	1048.6 96026	247.7024511	1849.6896	7.4673 85131	2.90060 314	0.0049 18887	0.1125 39884	Up
KCTD15	577.23 49604	944.6158348	209.854086	0.2221 58128	- 2.17034 1166	0.0030 61627	0.0853 46759	Down
KCTD9	672.86 65771	991.2304212	354.5027331	0.3576 39077	- 1.48342 3715	0.0046 8533	0.1094 23747	Down
KDELC2	1175.7 22362	1711.704795	639.7399295	0.3737 44311	- 1.41987 6475	0.0030 41209	0.0850 5454	Down
KDELR3	2182.0 24548	3405.995243	958.0538525	0.2812 84554	- 1.82989 7763	0.0003 17014	0.0186 91351	Down
KDF1	223.26 52448	107.3067576	339.223732	3.1612 5228	1.66049 6172	0.0042 23622	0.1025 61821	Up
KERA	409.90 74195	800.3512417	19.46359726	0.0243 18819	- 5.36178 3001	0.0042 75249	0.1033 35758	Down
KHDRBS 3	381.45 33603	558.4909187	204.415802	0.3660 14549	- 1.45002 7097	0.0065 65664	0.1314 91244	Down
KIAA1147	158.47 2637	95.63430586	221.3109681	2.3141 37862	1.21047 4814	0.0276 85084	0.3092 30348	Up
KIAA1211	137.29 7402	216.3390025	58.25580154	0.2692 80161	- 1.89282 0148	0.0011 89702	0.0453 88121	Down
KIAA1211 L	274.99 00711	117.5349392	432.4452029	3.6792 9065	1.87942 7648	0.0013 01113	0.0483 42803	Up
KIAA124 4	883.43 8333	535.1138029	1231.762863	2.3018 70847	1.20280 689	0.0250 77295	0.2922 65063	Up

KIAA132 4L	164.17 29091	275.6621162	52.68370197	0.1911 16947	- 2.38747 2384	0.0108 16936	0.1811 47449	Dow n
KIAA152 2	1379.3 94867	705.9789511	2052.810784	2.9077 50692	1.53990 3579	0.0044 74315	0.1061 49878	Up
KIAA161 4	287.10 18329	419.3289364	154.8747293	0.3693 39475	- 1.43698 0628	0.0029 91982	0.0848 05899	Dow n
KIAA171 5	530.03 58568	721.2982087	338.7735049	0.4696 71907	- 1.09027 4793	0.0466 01162	0.4146 50141	Dow n
KIF18B	69.917 19747	108.7405178	31.09387714	0.2859 45642	- 1.80618 7178	0.0270 39061	0.3056 21268	Dow n
KIF1A	448.10 39375	209.2995309	686.908344	3.2819 39242	1.71454 8531	0.0058 2403	0.1231 80712	Up
KIF20A	186.91 02952	304.8492203	68.9713702	0.2262 47488	- 2.14402 6323	0.0011 93826	0.0453 88121	Dow n
KIF21A	214.05 5692	130.0982716	298.0131125	2.2906 76954	1.19577 4015	0.0403 96321	0.3820 20813	Up
KIF7	679.69 89677	1032.756917	326.6410181	0.3162 80639	- 1.66072 2848	0.0016 76055	0.0571 92597	Dow n
KIFC2	430.17 7526	637.2264851	223.1285669	0.3501 55827	- 1.51393 0999	0.0027 90587	0.0805 21626	Dow n
KIR2DL5 A	52.254 92056	8.894147955	95.61569317	10.750 40506	3.42631 9114	0.0072 83003	0.1400 75128	Up
KIR2DS1	57.413 61992	13.60355107	101.2236888	7.4409 75392	2.89549 1748	6.87E- 05	0.0065 91825	Up
KIRREL	2431.9 05389	3574.553403	1289.257375	0.3606 7649	- 1.47122 2707	0.0060 80256	0.1266 99009	Dow n
KLC3	56.899 33075	15.14141856	98.65724294	6.5157 19946	2.70392 4596	0.0002 37665	0.0154 85252	Up
KLF4	1331.1 16974	2097.907634	564.3263153	0.2689 94834	- 1.89434 9629	0.0048 35431	0.1110 54351	Dow n
KLF5	530.81 30953	163.7007398	897.9254508	5.4851 64283	2.45553 4831	0.0006 52704	0.0313 10458	Up
KLHDC7 A	548.06 43936	205.2819812	890.8468061	4.3396 24944	2.117570 362	0.0406 84247	0.3832 503	Up
KLHL29	177.98	265.2490035	90.73009597	0.3420	-	0.0061	0.1273	Dow

	95498			56312	1.54769 4241	43815	23742	n
KLHL3	248.40 9163	337.3812965	159.4370295	0.4725 72224	- 1.08139 326	0.0214 75117	0.2685 71055	Down
KLHL30	33.236 31453	62.72006986	3.75255919	0.0598 30278	- 4.06298 0433	0.0291 84477	0.3185 88632	Down
KLHL32	106.57 15316	188.3789682	24.76409501	0.1314 58916	- 2.92731 6098	0.0022 74935	0.0693 39246	Down
KLHL4	57.825 02254	88.18609335	27.46395174	0.3114 31777	- 1.683011 939	0.0023 92683	0.0720 73066	Down
KLHL40	277.79 58235	94.18074191	461.4109051	4.8992 06523	2.29254 8109	0.0185 35292	0.2472 0819	Up
KLK14	9.5695 86403	18.90038651	0.238786293	0.0126 33937	- 6.30655 1903	0.0010 21081	0.0409 12776	Down
KLK7	489.58 93504	925.3935177	53.78518308	0.0581 21418	- 4.10478 6299	4.55E- 12	9.08E- 09	Down
KLRC1	10.667 87089	3.200945179	18.13479659	5.6654 5054	2.50219 069	0.0343 99223	0.3512 78376	Up
KLRD1	76.648 97821	23.52735139	129.770605	5.5157 33705	2.46355 2806	0.0002 67143	0.0165 87444	Up
KNG1	7.7242 09737	1.368330455	14.08008902	10.289 97708	3.36316 7864	0.0427 5251	0.3938 6188	Up
KREMEN 2	31.983 99701	9.067272986	54.90072104	6.0548 21679	2.59808 4472	0.0453 18805	0.4070 76959	Up
KRT14	1707.3 18408	233.2571504	3181.379665	13.638 93737	3.76965 9341	0.0136 46129	0.2082 83578	Up
KRT17	4882.2 75792	771.4989704	8993.052613	11.656 59704	3.54307 4773	1.67E- 10	2.50E- 07	Up
KRT18	955.94 66617	301.4850995	1610.408224	5.3415 84797	2.41726 7839	0.0006 57128	0.0313 45186	Up
KRT5	11033. 05929	1828.204265	20237.91431	11.069 83213	3.46856 1439	0.0002 0397	0.0141 62101	Up
KRT6A	6.4651 87429	0.3302029	12.60017196	38.158 87733	5.25394 6822	0.0101 2789	0.1729 27878	Up
KRT7	3289.7 70196	1068.243234	5511.297158	5.1592 15599	2.36715 1737	7.88E- 06	0.0013 95796	Up
KRT75	44.670 74033	1.722292782	87.61918787	50.873 57318	5.66884 4522	0.0153 26087	0.2229 84649	Up

KRT8	3158.3 83393	712.1889819	5604.577803	7.8695 09282	2.97627 3677	0.0003 99322	0.0220 27603	Up
KY	5.2459 96736	10.49199347	0	0	#NAME ?	0.0141 63455	0.2122 51175	Down
KYNU	81.510 85617	36.56782315	126.4538892	3.4580 64448	1.78996 4757	0.0090 64091	0.1591 79242	Up
LACTBL1	14.904 06391	28.80554125	1.002586562	0.0348 05337	- 4.84454 7658	0.0277 62051	0.3094 98642	Down
LAD1	690.26 01322	229.8475423	1150.672722	5.0062 43314	2.32372 8411	1.86E- 05	0.0025 248	Up
LAMA2	1636.3 29117	2548.356229	724.3020056	0.2842 23217	- 1.81490 3687	9.37E- 05	0.0081 27365	Down
LAMA4	8323.4 76149	12776.92094	3870.031355	0.3028 9233	- 1.72312 3049	0.0002 83955	0.0171 35422	Down
LAMB1	7375.9 26628	9993.189387	4758.663869	0.4761 90702	- 1.07038 8644	0.0078 76357	0.1458 36369	Down
LAMB2	12383. 23169	18881.27306	5885.190327	0.3116 94572	- 1.68179 5063	0.0005 6435	0.0282 14009	Down
LAMB3	1261.7 61165	607.0309773	1916.491354	3.1571 55772	1.65862 5444	0.0016 67387	0.0570 14889	Up
LAMC1	16268. 08822	24748.28934	7787.887108	0.3146 83856	- 1.66802 493	0.0005 85169	0.0289 45751	Down
LAMC2	790.40 04604	292.1471468	1288.653774	4.4109 75045	2.14109 7599	7.76E- 05	0.0071 58621	Up
LAP3	2661.3 02685	1548.870306	3773.735065	2.4364 43548	1.28477 6796	0.0092 6085	0.1613 73906	Up
LBP	3494.4 25132	726.9585743	6261.891689	8.6138 21902	3.10665 3495	0.0213 47726	0.2682 71244	Up
LCAT	963.63 96349	1400.678484	526.6007855	0.3759 61216	- 1.411344 255	0.0037 24369	0.0961 00187	Down
LCK	263.59 30048	151.5469961	375.6390135	2.4786 96531	1.30958 1652	0.0120 43848	0.1935 00973	Up
LCN2	2485.3 04271	1049.815104	3920.793439	3.7347 46647	1.90101 0379	0.0450 03197	0.4052 54125	Up
LCNL1	219.53 02114	22.41432852	416.6460943	18.588 38171	4.21632 9271	0.0068 01066	0.1342 51998	Up
LCP1	1807.4	1176.819263	2438.116262	2.0717	1.05087	0.0269	0.3048	Up

	67763			84801	4156	54683	93092	
LCP2	590.46 15345	390.4733119	790.4497571	2.0243 37472	1.01744 9818	0.0461 74152	0.4122 88866	Up
LDB2	883.88 35855	1279.973662	487.7935087	0.3810 9652	- 1.39177 166	0.0041 23369	0.1014 37129	Down
LDHD	96.076 67305	24.97054812	167.182798	6.6951 99369	2.74312 7017	0.0435 44408	0.3978 9588	Up
LDLRAD 1	266.87 64475	44.80580083	488.9470943	10.912 58465	3.44792 0939	6.30E- 06	0.0012 85676	Up
LDLRAD 4	2201.4 7335	3331.313981	1071.632719	0.3216 84694	- 1.63628 0801	0.0305 90357	0.3272 49487	Down
LEPR	17.564 42945	34.36505864	0.763800269	0.0222 26072	- 5.49160 3183	0.0003 54579	0.0202 49495	Down
LEPREL2	2341.1 34432	3400.162957	1282.105908	0.3770 719	- 1.40708 845	0.0050 38269	0.1136 16722	Down
LGALS1	6375.0 13521	10996.06956	1753.957479	0.1595 07674	- 2.64830 226	2.92E- 05	0.0035 5306	Down
LGALS7	55.403 81005	20.20797602	90.59964409	4.4833 6063	2.16458 0551	0.0015 67733	0.0550 13856	Up
LGALSL	1468.1 2723	2091.420172	844.8342886	0.4039 52443	- 1.30774 2638	0.0074 66677	0.1433 60676	Down
LHCGR	15.217 32256	28.9450461	1.489599009	0.0514 63003	- 4.28032 0531	0.0009 94179	0.0403 57402	Down
LHFP	2401.5 31582	3626.586789	1176.476374	0.3244 03204	- 1.62414 0026	0.0422 49611	0.3916 36468	Down
LIMS2	2876.8 93101	4294.085796	1459.700405	0.3399 32753	- 1.55667 8722	0.0286 64559	0.3148 89897	Down
LIPH	93.006 46045	13.91846974	172.0944512	12.364 46638	3.62812 8073	2.11E- 07	9.26E- 05	Up
LIX1L	923.73 0521	1304.814538	542.6465039	0.4158 80179	- 1.26576 0167	0.0042 90733	0.1034 31968	Down
LLGL2	921.98 32547	546.6990544	1297.267455	2.3729 09638	1.24665 7163	0.0433 86948	0.3970 62332	Up
LMNA	9864.9	13335.69869	6394.108495	0.4794	-	0.0338	0.3471	Down

	03594			73078	1.06047 8285	55408	04788	n
LMX1A	38.100 00052	73.91338069	2.286620355	0.0309 36487	- 5.01454 6801	0.0058 56523	0.1231 80712	Dow n
LMX1B	262.88 24631	97.05255598	428.7123703	4.4173 2179	2.14317 1933	0.0001 39742	0.0107 46284	Up
LOC1001 37797	148.36 2164	224.0281126	72.69621546	0.3244 95951	- 1.62372 7618	0.0264 74175	0.3014 90004	Dow n
LOC1001 39049	9.8718 84842	2.689142055	17.05462763	6.3420 32991	2.66494 5382	0.0372 39714	0.3672 5366	Up
LOC1001 39101	12.885 10826	1.344571027	24.42564549	18.166 1251	4.18317 8815	0.0019 34427	0.0625 66177	Up
LOC1002 95741	83.228 83605	5.354524682	161.1031474	30.087 29196	4.911082 356	1.24E- 10	2.03E- 07	Up
LOC1002 97621	6.2366 54966	12.22030333	0.253006606	0.0207 03791	- 5.59396 1233	0.0288 96268	0.3164 27425	Dow n
LOC1002 97676	3617.1 45186	2046.840061	5187.450312	2.5343 7013	1.34162 7237	0.0216 71319	0.2696 9919	Up
LOC1002 98868	1099.9 77827	549.0319132	1650.923742	3.0069 72276	1.588311 566	0.0366 16445	0.3635 96645	Up
LOC1002 99281	2490.5 28223	1382.663969	3598.392477	2.6025 06869	1.37990 1972	0.0132 90079	0.2053 22588	Up
LOC1003 00091	120.30 10469	9.625832036	230.9762618	23.995 4594	4.58468 9529	7.31E- 06	0.0013 92975	Up
LOC1003 00510	311.71 40228	203.838049	419.5899966	2.0584 47864	1.04155 6909	0.0414 53489	0.3862 50226	Up
LOC1003 35205	237.39 74242	117.6229695	357.1718789	3.0365 82739	1.60244 8679	0.0367 83908	0.3642 93155	Up
LOC1003 35509	15.224 18646	5.443912262	25.00446065	4.5931 05003	2.19946 9765	0.0448 01619	0.4046 11327	Up
LOC1003 35643	21.567 38352	1.392089882	41.74267716	29.985 61926	4.90619 8862	0.0065 64736	0.1314 91244	Up
LOC1003 36526	19.816 563	32.26555134	7.367574664	0.2283 41818	- 2.13073 2997	0.0362 96945	0.3613 95383	Dow n
LOC1003 36869	58.315 99229	16.56009294	100.0718916	6.0429 54712	2.59525 413	0.0040 99553	0.1012 66855	Up
LOC1003 36949	5115.9 38727	8469.941395	1761.936059	0.2080 22225	- 2.26519 0418	0.0260 99448	0.2993 28043	Dow n
LOC1008	142.72	54.04552227	231.4059866	4.2816	2.09817	0.0452	0.4068	Up

47119	57544			86565	9189	4727	37764	
LOC1008 47516	8.3067 44284	16.61348857	0	0	#NAME ?	0.0381 08781	0.3712 40634	Dow n
LOC1008 47724	538.03 81076	21.95688233	1054.119333	48.008 60692	5.58522 1168	0.0024 17161	0.0724 46336	Up
LOC1008 47999	39.023 53566	62.49747923	15.54959209	0.2488 03508	- 2.00692 1266	0.0062 7395	0.1286 45163	Dow n
LOC1008 48461	141.16 07915	201.6333578	80.68822525	0.4001 72998	- 1.32130 4272	0.0081 31505	0.1480 04922	Dow n
LOC1008 48575	259.91 01815	84.8507289	434.9696341	5.1262 92252	2.35791 573	0.0225 21299	0.2755 10556	Up
LOC1008 48786	44.395 53509	69.73394394	19.05712624	0.2732 83356	- 1.87153 0497	0.0140 32024	0.2108 08596	Dow n
LOC1008 48815	2961.1 20655	1332.387943	4589.853368	3.4448 3256	1.78443 3861	0.0035 69892	0.0936 51879	Up
LOC1008 50276	251.56 91206	355.153351	147.9848903	0.4166 78851	- 1.26299 2218	0.0228 61614	0.2785 36864	Dow n
LOC1008 52118	2372.5 21894	3897.042514	848.001273	0.2176 01237	- 2.20024 1335	0.0006 49692	0.0313 10458	Dow n
LOC1019 02512	570.75 86823	836.7579472	304.7594174	0.3642 14548	- 1.45713 9546	0.0300 13497	0.3239 69216	Dow n
LOC1019 03295	6.2056 67286	0.6604058	11.75092877	17.793 49722	4.15327 8188	0.0231 3193	0.2803 10986	Up
LOC1019 04210	174.84 65476	246.6076521	103.085443	0.4180 13967	- 1.25837 6947	0.0161 54887	0.2286 65812	Dow n
LOC1019 04278	68.950 70455	103.0430214	34.85838768	0.3382 8965	- 1.56366 9055	0.0033 50937	0.0895 06851	Dow n
LOC1019 04723	85.462 36633	13.44607722	157.4786554	11.711 86606	3.54989 9055	0.0046 81968	0.1094 23747	Up
LOC1019 05132	46.953 82475	17.79793001	76.10971948	4.2763 24236	2.09637 1244	0.0463 58112	0.4133 25452	Up
LOC1019 05478	176.53 11934	290.6159133	62.44647348	0.2148 76305	- 2.21842 1697	0.0101 3546	0.1729 27878	Dow n
LOC1019 05551	8.8908 70324	0.3302029	17.45153775	52.850 95238	5.72385 7564	0.0065 66153	0.1314 91244	Up

LOC1019 05630	143.17 95663	213.9405947	72.41853792	0.3384 98348	- 1.56277 9301	0.0047 40451	0.1099 96813	Dow n
LOC1019 05885	49.865 47418	78.37018589	21.36076246	0.2725 62355	- 1.87534 1775	0.0150 59688	0.2205 8375	Dow n
LOC1019 05937	236.10 69603	135.6939785	336.5199422	2.4799 91713	1.31033 53	0.0201 07367	0.2599 50237	Up
LOC1019 06282	19.357 83682	33.38329208	5.33238157	0.1597 32047	- 2.64627 4308	0.0258 23131	0.2971 06442	Dow n
LOC1019 06436	14.673 91522	26.79864258	2.549187864	0.0951 23768	- 3.39405 0324	0.0028 74645	0.0826 47577	Dow n
LOC1019 06593	37.199 1664	17.49470759	56.9036252	3.2526 19394	1.70160 2015	0.0463 20487	0.4133 25452	Up
LOC1019 06598	316.54 52725	35.04783831	598.0427067	17.063 61178	4.09285 1143	2.05E- 06	0.0005 50176	Up
LOC1019 06604	24.738 26391	48.23993542	1.236592403	0.0256 34205	- 5.28578 6023	0.0092 24256	0.1610 48345	Dow n
LOC1019 07048	179.72 00914	55.87477642	303.5654064	5.4329 59662	2.44173 8335	4.60E- 05	0.0049 82045	Up
LOC1019 07229	83.030 20843	116.1524536	49.90796323	0.4296 76358	- 1.21867 7697	0.0277 70643	0.3094 98642	Dow n
LOC1019 07519	13.808 34396	24.06969394	3.546993974	0.1473 63485	- 2.76254 9013	0.0127 06114	0.1999 81294	Dow n
LOC1019 07985	32.832 98034	47.92608931	17.73987137	0.3701 50614	- 1.43381 5675	0.0282 80104	0.3122 16446	Dow n
LOC1019 08130	13.124 60771	25.73842175	0.510793663	0.0198 4557	- 5.65503 9154	0.0061 66664	0.1274 65645	Dow n
LOC1019 09956	25.650 87608	10.1348101	41.16694206	4.0619 35219	2.02216 7231	0.0185 09677	0.2472 0819	Up
LOC1049 68414	250.33 58822	405.8408992	94.83086526	0.2336 65127	- 2.09748 5658	0.0241 08664	0.2863 81143	Dow n
LOC1049 68444	153.34 89703	97.91871742	208.7792232	2.1321 68687	1.09232 1582	0.0478 57107	0.4200 16765	Up
LOC1049 68450	264.03 54071	87.48932943	440.5814847	5.0358 31084	2.33222 9892	4.29E- 05	0.0047 96668	Up

LOC1049 68458	4.6467 835	9.293567	0	0	#NAME ?	0.0158 67407	0.2266 43036	Dow n
LOC1049 68478	3.9059 02565	0	7.811805129	Inf	Inf	0.0254 89237	0.2945 84159	Up
LOC1049 68844	86.197 26043	169.5923264	2.80219447	0.0165 23121	- 5.91937 0002	0.0248 44256	0.2903 01657	Dow n
LOC1049 68894	4.4089 91236	8.817982472	0	0	#NAME ?	0.0191 78893	0.2519 31366	Dow n
LOC1049 68905	332.05 4341	147.007242	517.10144	3.5175 23578	1.81456 0094	0.0017 87868	0.0598 7193	Up
LOC1049 69591	112.40 99406	185.6368846	39.18299669	0.2110 73337	- 2.24418 3748	0.0002 63268	0.0165 5369	Dow n
LOC1049 71896	9.1062 32531	15.16670385	3.045761215	0.2008 18928	- 2.31603 2836	0.0474 25351	0.4178 14833	Dow n
LOC1049 71974	79.585 53172	131.2472026	27.92386081	0.2127 5776	- 2.23271 6343	0.0138 78953	0.2096 44266	Dow n
LOC1049 72276	26.154 96073	0.6604058	51.64951566	78.208 75535	6.28925 8219	0.0024 56584	0.0734 29455	Up
LOC1049 72288	168.35 12787	306.1060642	30.59649313	0.0999 53894	- 3.32259 3416	0.0244 37897	0.2866 71036	Dow n
LOC1049 72842	11.215 11769	22.43023538	0	0	#NAME ?	0.0315 88188	0.3333 79686	Dow n
LOC1049 73704	40.314 49777	14.70448171	65.92451382	4.4832 93944	2.16455 9092	0.0147 02212	0.2174 40618	Up
LOC1049 74163	22.091 78129	7.675183104	36.50837948	4.7566 78634	2.24995 4559	0.0399 83023	0.3806 98819	Up
LOC1049 74721	15.623 8336	26.24895471	4.998712498	0.1904 34726	- 2.39263 1515	0.0226 76831	0.2770 36314	Dow n
LOC1049 74854	121.43 94384	56.08897821	186.7898986	3.3302 42492	1.73562 7231	0.0034 00412	0.0904 00692	Up
LOC1049 75176	317.57 15813	504.0481318	131.0950308	0.2600 8435	- 1.94294 8503	0.0211 583	0.2673 85601	Dow n
LOC1049 75474	18.245 94354	34.24792766	2.243959417	0.0655 21028	- 3.93189 8204	0.0004 15096	0.0226 20227	Dow n
LOC1049 75541	302.75 24427	572.6088889	32.89599654	0.0574 49329	- 4.12156	0.0133 83931	0.2063 15204	Dow n

					6143			
LOC1049 75620	224.57 04874	394.2930441	54.84793062	0.1391 04484	- 2.84575 9165	0.0091 56092	0.1606 38043	Dow n
LOC1049 75830	468.40 20421	17.90466397	918.8994202	51.321 79091	5.68149 961	3.79E- 05	0.0043 46368	Up
LOC1049 75908	14.916 43789	29.83287579	0	0	#NAME ?	0.0005 39901	0.0272 72595	Dow n
LOC1049 76349	27.968 1682	46.25515907	9.681177342	0.2092 99407	- 2.25635 9874	0.0030 26871	0.0850 45521	Dow n
LOC5042 19	1526.2 01422	2060.974813	991.4280322	0.4810 48107	- 1.05574 6918	0.0442 02058	0.4014 57376	Dow n
LOC5047 73	1076.1 57784	1962.057153	190.2584151	0.0969 68845	- 3.36633 4896	0.0015 78969	0.0552 42395	Dow n
LOC5068 23	28.581 84394	5.898562427	51.26512546	8.6911 21963	3.119542 431	0.0155 29946	0.2246 78212	Up
LOC5070 19	17.683 10473	7.610317879	27.75589158	3.6471 39583	1.86676 5416	0.0437 04924	0.3988 43073	Up
LOC5075 50	57.173 2865	5.887262169	108.4593108	18.422 70782	4.20341 3223	0.0015 48889	0.0547 22342	Up
LOC5075 81	248.03 47124	369.4318872	126.6375375	0.3427 89948	- 1.54460 329	0.0021 50864	0.0673 26013	Dow n
LOC5085 47	1323.5 17556	1952.151791	694.883321	0.3559 57628	- 1.49022 2577	0.0272 76678	0.3069 56512	Dow n
LOC5088 79	536.54 61358	72.40303073	1000.689241	13.821 09603	3.78880 0123	0.0349 87736	0.3538 76846	Up
LOC5090 55	855.05 30568	1321.072538	389.0335752	0.2944 83129	- 1.76374 3109	0.0009 64187	0.0394 85521	Dow n
LOC5095 13	62.801 70572	29.68111014	95.92230129	3.2317 62587	1.69232 1218	0.0401 68057	0.3810 46533	Up
LOC5101 85	25.945 42219	3.114382664	48.77646171	15.661 67905	3.96916 6983	0.0204 7324	0.2623 69556	Up
LOC5103 69	142.15 27626	64.16527555	220.1402497	3.4308 31518	1.77855 8279	0.0189 66381	0.2505 90744	Up
LOC5108 60	73.210 14391	136.2221991	10.19808872	0.0748 63633	- 3.73959 1129	0.0215 7653	0.2692 75749	Dow n
LOC51161	149.72	75.9762161	223.4835839	2.9414	1.55654	0.0089	0.1581	Up

7	99			94001	9094	88902	67733	
LOC512005	28.70479378	50.11481485	7.294772713	0.145561202	-2.78030222	0.027425508	0.307979458	Down
LOC512548	50.52876555	1.674773927	99.38275718	59.34099854	5.890957298	2.04E-10	2.82E-07	Up
LOC513329	525.4379969	43.71156798	1007.164426	23.04114157	4.526140291	3.87E-06	0.000863637	Up
LOC513659	270.7663916	379.1190248	162.4137584	0.428397806	-1.222977003	0.01836334	0.246622807	Down
LOC515150	255.2274142	461.0278809	49.42694745	0.107210322	-3.221484286	0.006677779	0.132839057	Down
LOC515676	1240.290994	2473.261977	7.320012231	0.002959659	-8.400353289	0.002458129	0.073429455	Down
LOC515736	353.4220257	210.8449406	495.9991109	2.352435441	1.234155131	0.039601837	0.379616119	Up
LOC516421	47.76491728	13.22017919	82.30965538	6.226062008	2.638319945	0.000694939	0.032800763	Up
LOC518080	35.46226058	18.03950826	52.88501289	2.931621645	1.551698921	0.034052489	0.348132981	Up
LOC520016	135.629819	80.63323806	190.6264	2.364116889	1.241301369	0.049191459	0.426001966	Up
LOC520638	3.695556897	0	7.391113793	Inf	Inf	0.031496898	0.333181598	Up
LOC522437	7.555968123	1.790745999	13.32119025	7.438905492	2.895090369	0.047375356	0.417814833	Up
LOC525353	563.365845	801.9341564	324.7975335	0.405017707	-1.303943111	0.005202749	0.115936845	Down
LOC528098	1041.359289	1921.905911	160.8126663	0.083673537	-3.57908476	0.000863444	0.037403027	Down
LOC528479	28.81943809	6.416411664	51.22246452	7.983038995	2.996938058	0.018558141	0.24720819	Up
LOC530173	7.495739042	0	14.99147808	Inf	Inf	0.002018907	0.064716593	Up
LOC530929	189.3907601	108.136502	270.6450181	2.50280907	1.323548237	0.031808469	0.334705504	Up
LOC532205	9.709979207	16.90877208	2.511186335	0.14851382	-2.751330906	0.040837446	0.383885602	Down

LOC5349 67	290.55 09368	11.04849039	570.0533832	51.595 59028	5.68917 5863	0.0017 1612	0.0582 28282	Up
LOC5352 80	1307.5 77068	2078.037229	537.1169067	0.2584 73188	- 1.95191 3462	0.0001 83142	0.0131 73744	Down
LOC5376 55	123.61 3869	211.648211	35.57952701	0.1681 06911	- 2.57254 9057	0.0355 78179	0.3574 31505	Down
LOC6136 77	41.072 33911	59.23387126	22.91080696	0.3867 85575	- 1.37039 4103	0.0408 06635	0.3838 85602	Down
LOC6141 41	21.477 23822	7.654248741	35.3002277	4.6118 47471	2.20534 4799	0.0396 8701	0.3798 25173	Up
LOC6147 05	464.51 49682	304.3439165	624.6860198	2.0525 66146	1.03742 8715	0.0421 23066	0.3908 66411	Up
LOC6155 89	5.1716 4236	0.353962327	9.989322392	28.221 42817	4.81871 9093	0.0300 71211	0.3240 08743	Up
LOC6156 97	12.508 39589	0.684165227	24.33262656	35.565 42424	5.15240 3468	0.0268 24026	0.3041 76114	Up
LOC6158 67	63.382 12857	125.2318762	1.53238099	0.0122 36349	- 6.35268 2985	9.40E- 05	0.0081 27365	Down
LOC61611 1	2661.2 25121	3887.204038	1435.246204	0.3692 23275	- 1.43743 4596	0.0070 87787	0.1379 5692	Down
LOC6172 19	26.700 65459	1.674773927	51.72653526	30.885 68219	4.94886 6291	0.0118 24534	0.1912 41559	Up
LOC6173 02	27.899 36975	10.4976436	45.30109589	4.3153 58533	2.10948 0428	0.0149 57112	0.2196 3364	Up
LOC6184 09	125.98 77258	68.21859475	183.7568569	2.6936 47643	1.42956 1144	0.0147 03208	0.2174 40618	Up
LOC6185 65	48.324 80225	19.66317534	76.98642916	3.9152 59251	1.96910 7839	0.0059 08472	0.1239 81381	Up
LOC6187 33	816.59 23509	527.3055371	1105.879165	2.0972 26536	1.06848 2705	0.0349 88213	0.3538 76846	Up
LOC7810 04	34.676 15616	55.8647746	13.48753772	0.2414 31883	- 2.050311 888	0.0422 94634	0.3918 5183	Down
LOC78114 6	128.48 89841	11.17333363	245.8046347	21.999 22088	4.45938 0526	0.0125 32656	0.1984 38578	Up
LOC7813 04	174.38 31247	321.0445106	27.72173879	0.0863 48584	- 3.53368 3675	0.0354 18859	0.3566 27855	Down
LOC7833	1123.2	15.66169688	2230.875888	142.44	7.15422	3.13E-	5.62E-	Up

99	68792			15186	5912	15	11	
LOC7834 97	18.428 29865	7.998576963	28.85802033	3.6078 94312	1.851157 078	0.0493 45401	0.4266 24205	Up
LOC7840 07	2474.7 29789	3900.464846	1048.994731	0.2689 40953	- 1.89463 8639	0.0223 99276	0.2751 49845	Down
LOC7858 03	17.196 21989	2.02591119	32.3665286	15.976 28206	3.99785 9803	0.0157 36651	0.2253 90999	Up
LOC7860 65	55.775 1478	8.674266997	102.8760286	11.859 91031	3.56802 1195	7.26E- 05	0.0068 3435	Up
LOC7863 72	322.49 0291	212.6791683	432.3014138	2.0326 45779	1.02335 8825	0.0444 55529	0.4025 39665	Up
LOC7869 87	62.870 64606	28.4538104	97.28748173	3.4191 37204	1.77363 2317	0.0079 06938	0.1458 36369	Up
LOC7879 04	10.992 04597	20.2034848	1.780607143	0.0881 33664	- 3.50416 3004	0.0236 31714	0.2836 90992	Down
LOC7884 14	184.28 3121	78.64309631	289.9231456	3.6865 68297	1.88227 8484	0.0012 82708	0.0477 57625	Up
LOC7898 29	182.74 15639	113.0363475	252.4467803	2.2333 23934	1.15919 2523	0.0411 92592	0.3849 31409	Up
LOC7908 86	31.780 35219	47.653662	15.90704238	0.3338 05246	- 1.58292 1466	0.0257 42179	0.2965 54519	Down
LOX	2107.3 46385	4011.512912	203.1798577	0.0506 49185	- 4.30331 7149	0.0014 23508	0.0509 9392	Down
LOXL1	2659.9 49621	4742.491006	577.4082351	0.1217 52099	- 3.03798 1449	5.58E- 05	0.0057 63504	Down
LOXL2	2161.1 06567	3661.937583	660.2755508	0.1803 07702	- 2.47146 707	1.85E- 06	0.0005 21221	Down
LOXL3	715.84 05507	1009.3921	422.2890011	0.4183 59725	- 1.25718 4125	0.0136 55471	0.2082 83578	Down
LOXL4	516.13 80435	938.9129821	93.36310499	0.0994 37442	- 3.33006 7009	1.54E- 08	1.21E- 05	Down
LPAR1	838.80 43795	1181.760079	495.8486801	0.4195 84896	- 1.25296 5349	0.0240 47204	0.2861 95145	Down
LPAR2	175.17 66776	69.98368852	280.3696666	4.0062 14484	2.00223 9662	0.0006 25191	0.0305 51127	Up

LPAR3	382.50 41223	36.80352462	728.2047201	19.786 27666	4.30642 8249	0.0062 8949	0.1286 45163	Up
LPHN3	679.70 90816	1023.064125	336.3540377	0.3287 71217	- 1.60484 4094	0.0393 13234	0.3782 61039	Down
LRP1	18850. 28904	28647.4517	9053.126387	0.3160 18558	- 1.66191 8811	0.0004 23755	0.0228 84055	Down
LRP1B	10.746 59583	21.49319165	0	0	#NAME ?	0.0321 66989	0.3361 17932	Down
LRP8	287.17 82106	161.7287024	412.6277187	2.5513 57382	1.35126 4999	0.0340 14088	0.3481 32981	Up
LRRC15	59.727 95854	103.5854179	15.87049915	0.1532 11711	- 2.70640 1515	0.0040 7821	0.1008 79923	Down
LRRC17	369.84 44582	650.7127716	88.97614466	0.1367 36435	- 2.87053 0377	0.0181 66404	0.2451 8736	Down
LRRC2	219.92 41801	44.98652687	394.8618334	8.7773 35367	3.13378 3031	0.0007 06736	0.0329 25454	Up
LRRC23	16.661 16076	5.824459081	27.49786243	4.7211 01488	2.23912 3496	0.0399 02087	0.3806 98819	Up
LRRC25	140.78 95115	89.90773859	191.6712843	2.1318 6637	1.092117 01	0.0349 87682	0.3538 76846	Up
LRRC32	588.43 91974	810.1540464	366.7243485	0.4526 60022	- 1.14350 0198	0.0165 97344	0.2328 15945	Down
LRRC4C	103.08 02536	23.14152138	183.0189858	7.9086 84256	2.98343 7698	0.0243 01708	0.2863 81143	Up
LRRC55	44.039 97966	67.5521138	20.52784553	0.3038 81616	- 1.71841 8695	0.0065 39387	0.1314 91244	Down
LRRC6	37.026 8096	13.77591317	60.27770603	4.3755 86959	2.12947 6559	0.0438 16309	0.3993 65781	Up
LRRC75A	312.00 73309	422.4071295	201.6075322	0.4772 82503	- 1.06708 4645	0.0399 16813	0.3806 98819	Down
LRRC8E	227.78 29601	111.4513571	344.114563	3.0875 76247	1.62647 4764	0.0449 23305	0.4049 40249	Up
LRRN1	19.743 26965	38.24516645	1.241372855	0.0324 58294	- 4.94526 9018	0.0025 59701	0.0759 58912	Down
LRRN4CL	1697.7 89373	2815.067626	580.5111192	0.2062 15692	- 2.27777	1.31E- 05	0.0019 4338	Down

					3974			
LSR	503.80 60873	223.6092002	784.0029743	3.5061 3022	1.80987 958	0.0010 06189	0.0406 14294	Up
LTBP1	7799.8 44349	12456.12135	3143.567348	0.2523 71285	- 1.98638 0327	0.0075 90062	0.1435 49614	Down
LTBP2	3765.6 62271	5825.818246	1705.506295	0.2927 49657	- 1.77226 0613	0.0109 10646	0.1821 78414	Down
LTBP3	3552.9 51363	5156.302576	1949.60015	0.3781 00416	- 1.40315 8657	0.0038 11457	0.0972 47905	Down
LTC4S	79.293 23012	122.2797972	36.30666301	0.2969 14648	- 1.75187 9824	0.0026 27459	0.0772 53661	Down
LTF	92300. 80202	4131.043197	180470.5608	43.686 4376	5.449113 561	1.28E- 05	0.0019 41737	Up
LUM	17022. 82911	30130.27243	3915.385798	0.1299 48569	- 2.94398 7344	4.33E- 05	0.0047 96668	Down
LUZP2	76.180 95747	28.259751	124.1021639	4.3914 81154	2.13470 7612	0.0394 66535	0.3787 38227	Up
LYPD3	417.07 97308	103.8181001	730.3413616	7.0348 17253	2.81451 2946	0.0192 73265	0.2520 66266	Up
LYPD6B	24.690 08856	4.435194264	44.94498286	10.133 71234	3.34109 0877	0.0015 65609	0.0550 13856	Up
LYVE1	498.32 50119	899.1535755	97.49644815	0.1084 31363	- 3.20514 5982	7.73E- 06	0.0013 95796	Down
M1AP	49.060 86656	26.36470013	71.75703298	2.7217 08672	1.44451 2651	0.0408 25164	0.3838 85602	Up
MAB21L1	63.240 54307	105.6181132	20.8629729	0.1975 32149	- 2.33984 0618	0.0003 99043	0.0220 27603	Down
MAB21L2	188.22 46305	60.81213971	315.6371212	5.1903 63679	2.37583 5629	5.62E- 05	0.0057 76599	Up
MAB21L3	60.723 22211	2.15999256	119.2864517	55.225 39932	5.78726 004	0.0027 62484	0.0801 93898	Up
MACC1	183.03 52103	67.80033252	298.270088	4.3992 42259	2.13725 505	0.0372 51817	0.3672 5366	Up
MAGED1	3707.6 58731	5385.401405	2029.916056	0.3769 29388	- 1.40763 3813	0.0050 2683	0.1135 64686	Down
MAGED4	1232.9	1830.83374	635.0350203	0.3468	-	0.0025	0.0763	Down

B	3438			55646	1.52759 2725	78453	89313	n
MAGEE2	64.261 78921	104.8156291	23.70794935	0.2261 87159	- 2.144411 068	0.0006 81988	0.0323 59364	Dow n
MAGEL2	98.084 16602	171.8831469	24.28518517	0.1412 88926	- 2.82327 9704	7.74E- 06	0.0013 95796	Dow n
MAL2	836.26 23567	414.3072452	1258.217468	3.0369 18815	1.60260 8342	0.0030 95811	0.0857 63545	Up
MAMDC2	303.03 40164	516.346036	89.72199692	0.1737 63311	- 2.52480 4595	0.0002 31645	0.0152 61155	Dow n
MAMSTR	91.084 21938	128.2393522	53.92908659	0.4205 34615	- 1.24970 3539	0.0316 54041	0.3333 79686	Dow n
MAOA	1237.6 65056	1967.539686	507.7904272	0.2580 83957	- 1.95408 7633	0.0001 19558	0.0095 98238	Dow n
MAOB	1621.1 45516	3030.24545	212.0455815	0.0699 76372	- 3.83698 8331	0.0175 88823	0.2409 01564	Dow n
MAP1A	3235.3 55424	5881.13728	589.5735683	0.1002 48224	- 3.31835 1415	0.0010 5905	0.0417 15746	Dow n
MAP1B	5889.3 82702	10166.08357	1612.681829	0.1586 3354	- 2.65623 0258	0.0161 42704	0.2286 65812	Dow n
MAP1LC3 A	1259.1 28151	1708.206377	810.0499252	0.4742 10807	- 1.07639 9553	0.0224 0001	0.2751 49845	Dow n
MAP1LC3 C	20.419 73818	36.1934337	4.646042661	0.1283 67004	- 2.96165 3678	0.0079 17703	0.1458 853	Dow n
MAP3K15	108.65 01732	202.8705465	14.42979984	0.0711 28116	- 3.81343 6232	0.0411 83705	0.3849 31409	Dow n
MAP3K7 CL	92.218 66744	126.949872	57.4874629	0.4528 35927	- 1.14293 9673	0.0439 25209	0.4000 19848	Dow n
MAP3K8	542.62 37226	298.4175277	786.8299175	2.6366 74606	1.39871 9538	0.0471 30249	0.4168 27454	Up
MAP3K9	94.532 61335	50.03616298	139.0290637	2.7785 71646	1.47434 3441	0.0216 09313	0.2692 75749	Up

MAP7	1003.6 71444	514.2391638	1493.103723	2.9035 20051	1.53780 2997	0.0056 01811	0.1200 68379	Up
MAP7D3	1072.2 06992	1525.375098	619.0388868	0.4058 27319	- 1.30106 2108	0.0055 22457	0.1187 92269	Down
MAPK8IP 2	32.599 94083	12.89562642	52.30425525	4.0559 68556	2.02004 6468	0.0103 44552	0.1755 22537	Up
MARCKS L1	1435.4 34124	692.574233	2178.294015	3.1452 13771	1.65315 8076	0.0008 65034	0.0374 03027	Up
MARVEL D1	3962.9 0647	6281.846858	1643.966082	0.2617 01076	- 1.93400 8239	0.0031 89027	0.0868 91324	Down
MATK	299.13 5619	168.1824625	430.0887754	2.5572 74813	1.35460 7206	0.0098 71552	0.1690 66781	Up
MATN4	54.620 83938	88.30760429	20.93407446	0.2370 58571	- 2.07668 4541	0.0018 20334	0.0602 85584	Down
MBNL3	456.42 79836	248.5813323	664.2746348	2.6722 62751	1.41806 1868	0.0128 5146	0.2006 98789	Up
MBOAT2	133.34 35331	186.0691318	80.61793435	0.4332 68719	- 1.20666 6014	0.0383 08663	0.3721 14236	Down
MBP	205.12 90369	115.6322044	294.6258694	2.5479 5687	1.34934 0857	0.0344 44585	0.3513 42585	Up
MCAM	8253.9 9616	12318.1335	4189.858819	0.3401 37474	- 1.55581 0132	0.0010 25498	0.0409 12776	Down
MCF2	73.130 75896	38.07077126	108.1907467	2.8418 32279	1.50682 1411	0.0481 59361	0.4204 12522	Up
MCHR1	32.424 60894	53.14240835	11.70680953	0.2202 91287	- 2.18251 566	0.0075 56187	0.1435 49614	Down
MCOLN2	344.91 15908	175.8192835	514.0038982	2.9234 78518	1.54768 599	0.0111 39988	0.1841 27202	Up
MDFI	462.76 88436	156.1603429	769.3773443	4.9268 42053	2.30066 3222	0.0314 68308	0.3330 75095	Up
ME1	353.91 23973	544.4222649	163.4025298	0.3001 39323	- 1.73629 575	0.0028 85202	0.0827 50533	Down
ME3	257.48 80525	399.7392169	115.2368881	0.2882 80167	- 1.79445 651	0.0039 7393	0.0998 09354	Down
MECR	390.42 73006	248.4362014	532.4183997	2.1430 78974	1.09968 5015	0.0463 59197	0.4133 25452	Up

MEDAG	2064.9 2516	3710.738137	419.1121824	0.1129 45772	- 3.14629 7833	6.43E- 06	0.0012 85676	Dow n
MEFV	39.910 49409	17.00855669	62.81243149	3.6929 90101	1.88478 9395	0.0423 66288	0.3923 13571	Up
MEGF6	736.95 39397	1262.501522	211.4063574	0.1674 50378	- 2.57819 446	0.0007 73639	0.0350 43701	Dow n
MEIS2	235.88 37311	385.7455181	86.02194407	0.2230 01798	- 2.16487 2753	0.0103 57963	0.1755 58206	Dow n
MEIS3	654.06 99884	1051.52947	256.6105066	0.2440 35487	- 2.03483 7137	0.0035 95502	0.0939 79514	Dow n
MEP1A	6.2685 71916	12.53714383	0	0	#NAME ?	0.0278 75627	0.3096 27791	Dow n
MET	818.28 37972	453.9913132	1182.576281	2.6048 43412	1.381196 649	0.0100 36692	0.1715 68276	Up
METTL9	3040.2 04481	1986.445277	4093.963685	2.0609 49643	1.04330 9255	0.0412 05192	0.3849 31409	Up
MFAP2	1575.1 86864	2928.184955	222.1887738	0.0758 79351	- 3.72014 8851	0.0010 04548	0.0406 14294	Dow n
MFAP5	5392.2 57765	10320.36166	464.153865	0.0449 74574	- 4.47474 6587	1.28E- 06	0.0003 98399	Dow n
MFHAS1	591.35 3916	878.8957787	303.8120532	0.3456 74721	- 1.53251 299	0.0264 74467	0.3014 90004	Dow n
MGC1269 45	475.91 16657	149.6599954	802.163336	5.3599 04857	2.42220 7392	0.0242 79229	0.2863 81143	Up
MGC1519 21	2850.2 06752	325.872074	5374.54143	16.492 79536	4.04376 4036	1.38E- 12	4.14E- 09	Up
MIA	597.11 39562	225.6305048	968.5974076	4.2928 47762	2.10193 5011	0.0008 0105	0.0357 45115	Up
MICAL2	1196.3 8437	1710.816093	681.9526457	0.3986 1248	- 1.32694 1215	0.0274 96431	0.3083 88361	Dow n
MISP	46.573 52014	22.39701119	70.75002909	3.1589 04932	1.65942 4519	0.0254 02511	0.2941 48968	Up
MITF	649.97 49287	926.3451468	373.6047106	0.4033 10485	- 1.31003 7182	0.0170 10323	0.2362 13617	Dow n
MKI67	657.29	1001.882095	312.7012733	0.3121	-	0.0084	0.1523	Dow

	1684			13845	1.67985 5738	64068	61689	n
MKX	372.21 73417	535.9113825	208.5233008	0.3891 00339	- 1.36178 5856	0.0033 18374	0.0890 66153	Dow n
MLLT11	240.29 93482	383.327583	97.27111349	0.2537 54537	- 1.97849 4475	0.0003 64605	0.0206 18513	Dow n
MLPH	147.05 26832	87.64841135	206.4569551	2.3555 12803	1.23604 1174	0.0425 60664	0.3931 014	Up
MMP12	33.205 60388	3.185660945	63.22554682	19.846 91651	4.31084 2978	2.44E- 06	0.0006 00097	Up
MMP14	3009.8 54074	4209.316332	1810.391816	0.4300 91652	- 1.21728 3965	0.0257 15522	0.2964 37329	Dow n
MMP15	652.02 58131	878.0772705	425.9743557	0.4851 2172	- 1.04358 1321	0.0253 7875	0.2941 48968	Dow n
MMP16	252.28 38363	436.4316517	68.13602084	0.1561 20713	- 2.67926 6134	0.0056 97997	0.1212 6282	Dow n
MMP2	18952. 48602	34662.32591	3242.646126	0.0935 49583	- 3.41812 4971	4.52E- 05	0.0049 22117	Dow n
MMP23B	756.75 14353	1375.497542	138.0053289	0.1003 31207	- 3.31715 768	2.19E- 05	0.0028 7756	Dow n
MMP27	130.13 55694	260.0323525	0.238786293	0.0009 18295	- 10.0887 5539	0.0092 56729	0.1613 73906	Dow n
MMP9	95.054 11398	4.831788244	185.2764397	38.345 31448	5.26097 8396	2.10E- 12	4.73E- 09	Up
MMRN1	800.56 75165	1367.243783	233.8912504	0.1710 67701	- 2.54736 0703	1.83E- 06	0.0005 21221	Dow n
MN1	510.26 08556	951.9439709	68.57774025	0.0720 39681	- 3.79506 4392	0.0007 94701	0.0356 38666	Dow n
MORC4	356.94 33615	477.2108631	236.67586	0.4959 56564	- 1.011714 32	0.0476 30496	0.4188 52847	Dow n
MPZL2	223.53 22266	24.18094815	422.8835051	17.488 29296	4.12831 7569	0.0029 94592	0.0848 05899	Up
MPZL3	673.96	333.3043879	1014.633125	3.0441	1.60604	0.0018	0.0602	Up

	87566			63719	5951	19551	85584	
MRAP2	30.142 60045	55.28660944	4.998591454	0.0904 12335	- 3.46733 6576	0.0002 12136	0.0146 4344	Dow n
MRC2	7064.8 41124	12996.30102	1133.381231	0.0872 07986	- 3.51939 5943	0.0002 5404	0.0161 99992	Dow n
MREG	41.734 55821	20.97305363	62.4960628	2.9798 26586	1.57522 8374	0.0451 67734	0.4063 28841	Up
MRGPRF	974.65 13896	1659.019229	290.28355	0.1749 72987	- 2.51479 5884	0.0071 61971	0.1387 63631	Dow n
MRO	32.477 94147	55.23058635	9.725296581	0.1760 8534	- 2.50565 3292	0.0035 77759	0.0936 51879	Dow n
MRVII	2983.1 4047	4931.981975	1034.298964	0.2097 12641	- 2.25351 4271	0.0242 89588	0.2863 81143	Dow n
MS4A8	277.50 01234	119.6705241	435.3297227	3.6377 35576	1.86304 0678	0.0297 08909	0.3218 40544	Up
M-SAA3.2	46912. 92946	470.3037068	93355.55522	198.50 05729	7.63299 9361	0.0001 41415	0.0107 774	Up
MSX1	224.41 10745	377.3066554	71.51549354	0.1895 42094	- 2.39940 9814	0.0094 59232	0.1638 78001	Dow n
MT1A	468.90 88907	27.27555536	910.542226	33.383 08658	5.06104 5446	0.0035 43937	0.0931 73424	Up
MT1E	484.98 49556	45.07088696	924.8990243	20.520 98565	4.35902 8122	0.0054 77989	0.1182 2222	Up
MTCL1	392.48 88157	569.6196675	215.3579639	0.3780 73259	- 1.40326 2284	0.0334 68025	0.3443 10922	Dow n
MTFP1	312.66 52779	204.8260842	420.5044715	2.0529 83013	1.03772 169	0.0393 79671	0.3786 97659	Up
MTMR7	75.604 07545	134.9469804	16.26117052	0.1205 0044	- 3.05288 968	0.0005 39188	0.0272 72595	Dow n
MTSS1L	1760.4 21682	2465.48307	1055.360293	0.4280 54164	- 1.22413 4736	0.0405 04838	0.3827 63271	Dow n
MUC16	1166.1 76788	22.19204752	2310.161529	104.09 86203	6.70180 7138	0.0075 87811	0.1435 49614	Up
MXRA5	6339.3 84645	11653.66785	1025.101443	0.0879 63846	- 3.50694	0.0007 06107	0.0329 25454	Dow n

					5507				
MXRA7	4352.3 37547	7339.113949	1365.561144	0.1860 66214	- 2.426111 984	0.0041 39407	0.1015 53829	Down	
MXRA8	1763.5 36293	2915.237764	611.8348225	0.2098 74759	- 2.25239 9428	2.01E- 06	0.0005 48355	Down	
MYADM	7266.2 16498	10095.41339	4437.01961	0.4395 08462	- 1.18603 7153	0.0075 31428	0.1435 49614	Down	
MYB	281.68 25929	66.96033055	496.4048552	7.4134 17036	2.89013 8671	0.0276 78046	0.3092 30348	Up	
MYBPH	497.01 76346	99.39177699	894.6434921	9.0011 82182	3.170114 492	0.0181 12399	0.2448 0939	Up	
MYF5	21.036 67302	37.63764904	4.435696993	0.1178 52658	- 3.08494 3794	0.0206 93994	0.2641 1646	Down	
MYH10	4769.9 13375	6597.591357	2942.235393	0.4459 55991	- 1.16502 6749	0.0266 03203	0.3023 61097	Down	
MYH15	4.7033 73558	9.167960823	0.238786293	0.0260 45737	- 5.26280 8949	0.0397 18119	0.3799 20713	Down	
MYL4	49.969 96351	75.12016696	24.81976005	0.3304 00757	- 1.597711 102	0.0181 13493	0.2448 0939	Down	
MYL9	33323. 80572	58127.46803	8520.143411	0.1465 76889	- 2.77027 0448	0.0213 11927	0.2680 08653	Down	
MYLK	16261. 8799	27285.07475	5238.685053	0.1919 98193	- 2.38083 536	0.0347 55974	0.3531 16771	Down	
MYO18B	11.587 06147	23.17412295	0	0	#NAME ?	0.0019 91621	0.0640 70355	Down	
MYO3A	61.714 91378	22.70870881	100.7211188	4.4353 52076	2.14904 863	0.0021 23709	0.0668 83827	Up	
MYO5B	609.10 26118	241.1884331	977.0167905	4.0508 44304	2.01822 2636	0.0002 56187	0.0162 28778	Up	
MYO7A	36.444 47811	52.97634805	19.91260818	0.3758 77328	- 1.411666 195	0.0391 82379	0.3776 08105	Down	
MYOCD	1332.7 67151	2445.586407	219.9478945	0.0899 36669	- 3.47494 6743	0.0025 26588	0.0751 00217	Down	

MYRF	190.77 35876	327.0533302	54.4938449	0.1666 2067	- 2.58536 0713	3.07E- 06	0.0007 2688	Dow n
NACAD	267.48 60878	374.6993912	160.2727844	0.4277 36976	- 1.22520 4169	0.0147 44822	0.2178 76863	Dow n
NAP1L3	22.034 25251	36.02415235	8.044352669	0.2233 04426	- 2.16291 6247	0.0182 21876	0.2452 79022	Dow n
NARS2	540.07 56042	300.8592977	779.2919107	2.5902 20467	1.37307 4898	0.0489 48638	0.4248 27876	Up
NAV2	1165.6 555	1588.502076	742.8089239	0.4676 1596	- 1.09660 3923	0.0360 14019	0.3604 00722	Dow n
NCAM1	502.05 1209	994.9558156	9.146602462	0.0091 92974	- 6.76525 27	0.0021 36161	0.0671 5837	Dow n
NCS1	511.52 64869	843.4474496	179.6055242	0.2129 42163	- 2.23146 6461	0.0007 01747	0.0328 63302	Dow n
NDC80	71.940 99907	114.4627051	29.41929303	0.2570 20774	- 1.96004 3125	0.0150 68797	0.2205 8375	Dow n
NDN	254.06 18768	342.793312	165.3304417	0.4823 0358	- 1.05198 6575	0.0314 3024	0.3329 77961	Dow n
NDNF	370.50 41332	237.1603645	503.8479019	2.1245 02984	1.08712 537	0.0407 08035	0.3832 73609	Up
NDUFA4 L2	368.92 42511	531.546354	206.3021481	0.3881 16947	- 1.36543 6666	0.0047 36509	0.1099 96813	Dow n
NEB	21.609 08789	35.93284293	7.285332852	0.2027 48579	- 2.30223 629	0.0114 03266	0.1869 85142	Dow n
NECAB2	107.41 97336	163.3916681	51.44779918	0.3148 74068	- 1.66715 3149	0.0069 81436	0.1369 10753	Dow n
NECAB3	185.99 83423	309.3353271	62.66135752	0.2025 67738	- 2.30352 3673	6.31E- 05	0.0062 34561	Dow n
NEDD4L	1604.8 5147	747.5451334	2462.157807	3.2936 5773	1.71969 0641	0.0007 18017	0.0331 07965	Up
NEURL1	202.95 84113	73.45725862	332.459564	4.5258 91249	2.17820 1919	0.0126 87818	0.1999 81294	Up

NEXN	2150.2 94577	3734.238749	566.3504048	0.1516 64219	- 2.72104 733	0.0157 29648	0.2253 90999	Dow n
NFATC1	803.80 39251	1190.132698	417.4751527	0.3507 8034	- 1.511360 202	0.0137 86387	0.2090 39288	Dow n
NFATC4	1138.2 63388	1824.94152	451.5852557	0.2474 51905	- 2.01477 9946	4.35E- 05	0.0047 96668	Dow n
NFE2L3	572.33 18905	149.1892988	995.4744822	6.6725 59561	2.73824 0278	0.0344 84092	0.3515 46164	Up
NFKBIA	2995.8 21966	1976.024872	4015.619059	2.0321 70301	1.02302 1308	0.0385 79337	0.3737 49934	Up
NHS	270.18 51557	390.690499	149.6798124	0.3831 1608	- 1.38414 6516	0.0134 45908	0.2068 41546	Dow n
NHSL1	874.79 83576	496.8565857	1252.74013	2.5213 31438	1.33418 5778	0.0080 14672	0.1466 20385	Up
NHSL2	1595.7 65183	2537.985562	653.5448047	0.2575 05328	- 1.95732 5811	0.0004 06334	0.0222 99766	Dow n
NID1	6619.8 243	10441.92067	2797.727929	0.2679 3231	- 1.90005 9527	0.0042 5772	0.1030 50576	Dow n
NID2	3863.8 46542	5612.263735	2115.429349	0.3769 29782	- 1.40763 2303	0.0043 93841	0.1052 12319	Dow n
NIPAL4	122.99 68941	179.4635189	66.53026932	0.3707 17513	- 1.43160 7826	0.0437 84339	0.3992 76758	Dow n
NKAIN3	117.44 84878	174.9204857	59.97648978	0.3428 78592	- 1.54423 0266	0.0047 79497	0.1107 16791	Dow n
NKX2-2	19.051 04367	36.84649418	1.255593168	0.0340 76327	- 4.87508 637	0.0054 95003	0.1183 43285	Dow n
NKX3-1	18.946 13316	1.674773927	36.21749239	21.625 30225	4.43464 8392	0.0038 10383	0.0972 47905	Up
NLGN4X	4.5187 97773	8.78458894	0.253006606	0.0288 01189	- 5.117727 822	0.0457 82598	0.4098 10088	Dow n
NMB	220.46 49103	424.7651123	16.1647084	0.0380 5564	- 4.71574 5889	2.72E- 13	1.22E- 09	Dow n

NMI	1185.0 14059	775.2901393	1594.737979	2.0569 56355	1.040511 183	0.0401 50848	0.3810 46533	Up
NNT	1319.0 63164	1796.001852	842.1244765	0.4688 88423	- 1.09268 3436	0.0373 52926	0.3676 61558	Down
NOD2	823.72 35862	323.8703556	1323.576817	4.0867 48892	2.03095 3601	0.0008 71482	0.0374 03027	Up
NOL3	360.54 81134	530.0776182	191.0186087	0.3603 59695	- 1.47249 0436	0.0166 6101	0.2335 02855	Down
NOSTRIN	744.83 26138	317.5879713	1172.077256	3.6905 59348	1.88383 949	0.0168 78425	0.2356 37319	Up
NOVA1	50.847 20429	80.93267825	20.76173032	0.2565 30869	- 1.96279 5653	0.0062 72436	0.1286 45163	Down
NOX4	196.55 20134	316.263649	76.84037773	0.2429 6304	- 2.041191 228	0.0001 55095	0.0115 7293	Down
NOXA1	434.37 01875	252.1226458	616.6177291	2.4457 0545	1.29025 0663	0.0221 0351	0.2733 75116	Up
NPAS3	120.26 37681	64.04438724	176.4831489	2.7556 38028	1.46238 6392	0.0238 95678	0.2849 57543	Up
NPAS4	22.537 2847	40.24342059	4.831148811	0.1200 48165	- 3.05831 4739	0.0340 84901	0.3482 66352	Down
NPC2	5541.9 98419	3408.189676	7675.807162	2.2521 65487	1.17131 2839	0.0392 50091	0.3778 55667	Up
NPPB	12.090 96886	24.18193772	0	0	#NAME ?	0.0077 84157	0.1450 64825	Down
NPPC	11.029 29643	21.81980656	0.238786293	0.0109 43557	- 6.51377 4477	0.0109 32277	0.1823 70261	Down
NPR2	1154.5 75751	1667.163565	641.9879378	0.3850 77956	- 1.37677 7558	0.0023 50927	0.0709 84858	Down
NPR3	174.32 34338	303.8306358	44.8162318	0.1475 03992	- 2.761174 091	0.0333 44926	0.3434 37455	Down
NPY1R	1238.6 25324	2316.089081	161.1615665	0.0695 83492	- 3.845111 105	0.0019 80626	0.0639 45432	Down
NPY5R	129.95 08142	242.0905344	17.81109397	0.0735 72038	- 3.76469 8636	0.0131 99601	0.2043 42688	Down

NR2C2AP	308.49 17969	204.4002783	412.5833154	2.0185 06623	1.01328 832	0.0471 69208	0.4168 27454	Up
NR2F1	443.73 1444	642.4255374	245.0373505	0.3814 25296	- 1.39052 7571	0.0016 21826	0.0563 03655	Down
NR4A1	3430.0 19317	6611.841554	248.1970797	0.0375 38268	- 4.73549 4107	0.0175 89043	0.2409 01564	Down
NR4A2	810.39 01864	1295.458268	325.3221049	0.2511 25114	- 1.99352 1783	0.0411 37646	0.3849 31409	Down
NRAP	70.114 53611	24.69145206	115.5376202	4.6792 55796	2.22627 9097	0.0027 1934	0.0793 86178	Up
NRG1	465.95 68704	78.1230156	853.7907253	10.928 79888	3.45006 2946	4.29E- 09	4.06E- 06	Up
NRG3	15.796 5247	3.064038745	28.52901066	9.3109 17074	3.21892 3272	0.0032 28368	0.0875 65221	Up
NRIP3	124.93 82797	195.4493202	54.42723929	0.2784 7239	- 1.84439 3801	0.0414 06721	0.3862 50226	Down
NRK	21.127 36889	34.89830337	7.356434415	0.2107 96334	- 2.24607 8317	0.0142 10897	0.2127 84814	Down
NSUN7	62.191 31227	27.63838886	96.74423567	3.5003 5728	1.80750 2185	0.0109 60214	0.1825 73604	Up
NT5DC1	236.22 79722	152.1477044	320.3082399	2.1052 45301	1.07398 8345	0.0414 56944	0.3862 50226	Up
NTF4	82.356 87607	31.72244586	132.9913063	4.1923 40869	2.06775 6024	0.0016 31364	0.0563 50885	Up
NTM	9.9172 06373	17.85302084	1.981391907	0.1109 83565	- 3.17158 2038	0.0329 60413	0.3418 26472	Down
NTN5	58.024 41628	3.156251389	112.8925812	35.767 93077	5.16059 4753	0.0030 33124	0.0850 45521	Up
NTNG2	292.82 80378	474.3715992	111.2844763	0.2345 93463	- 2.09176 5281	0.0497 35913	0.4279 43027	Down
NTRK2	2172.5 24732	3734.346139	610.7033255	0.1635 36882	- 2.61231 2052	0.0498 19156	0.4284 54268	Down
NUAK2	119.24 22407	76.42727827	162.0572032	2.1204 10498	1.08434 3589	0.0451 54597	0.4063 28841	Up
NUGGC	92.166 20729	21.84370628	162.4887083	7.4386 96812	2.89504 9897	1.23E- 05	0.0018 77797	Up

NUMBL	522.43 8975	786.0656969	258.8122531	0.3292 50156	- 1.60274 3972	0.0046 50091	0.1088 83577	Down
NUP35	506.07 09855	332.4921045	679.6498666	2.0441 08288	1.03147 1626	0.0373 88596	0.3678 11333	Up
NXPH4	29.592 41268	50.38611229	8.798713078	0.1746 25759	- 2.51766 1713	0.0020 22901	0.0647 29225	Down
NYAP1	200.70 61329	296.3083614	105.1039043	0.3547 11233	- 1.49528 3076	0.0221 36936	0.2734 12444	Down
OAF	1060.7 9916	1656.48744	465.1108789	0.2807 8141	- 1.83248 0675	0.0004 48094	0.0238 40434	Down
OCLN	1085.2 27031	551.8157042	1618.638358	2.9332 95202	1.55252 2269	0.0049 55215	0.1127 40832	Up
ODAM	10.043 00077	0.6604058	19.42559573	29.414 63526	4.87846 2242	0.0095 00828	0.1642 82111	Up
OGN	15178. 08579	29226.85899	1129.312588	0.0386 39547	- 4.69377 8014	0.0021 55466	0.0673 26013	Down
OLFML1	1313.3 43687	2179.149491	447.537882	0.2053 72731	- 2.28368 346	0.0008 18669	0.0362 61386	Down
OLFML2 B	1488.8 10405	2731.807625	245.8131861	0.0899 8188	- 3.47422 1679	0.0009 27196	0.0386 86222	Down
OPN1LW	38.525 63609	75.80045947	1.250812716	0.0165 01387	- 5.92126 8898	0.0411 99111	0.3849 31409	Down
OPTC	36.316 10851	55.84271037	16.78950665	0.3006 57087	- 1.73380 9128	0.0076 22484	0.1435 85359	Down
OR4D9	6.8342 04084	13.17661527	0.491792899	0.0373 23158	- 4.74378 5114	0.0331 34392	0.3430 0573	Down
ORM1	119.98 95874	2.469261097	237.5099137	96.186 6341	6.58776 4529	0.0008 07912	0.0358 7327	Up
OSBPL3	460.39 71036	278.6681534	642.1260537	2.3042 67803	1.20430 8397	0.0147 71021	0.2180 14284	Up
OSR2	178.46 10842	319.2696889	37.65247955	0.1179 33148	- 3.08395 8812	5.42E- 06	0.0011 59811	Down
OSTN	87.312	172.7142196	1.910290345	0.0110	-	1.29E-	5.93E-	Down

	25496			60412	6.49845 1125	07	05	n
OVOL2	177.18 18225	67.36585379	286.9977912	4.2602 85814	2.09095 0221	0.0004 40704	0.0235 16878	Up
P2RX3	86.331 35799	49.53769321	123.1250228	2.4854 81556	1.31352 5397	0.0301 18931	0.3240 87515	Up
P2RY2	191.29 17799	40.97338121	341.6101786	8.3373 6852	3.05959 2105	3.18E- 07	0.0001 24148	Up
P3H1	1857.7 00811	2886.262887	829.1387348	0.2872 70691	- 1.79951 7285	0.0005 80168	0.0288 20912	Dow n
P3H4	863.96 75015	1528.889463	199.0455399	0.1301 89621	- 2.94131 3655	3.94E- 06	0.0008 63637	Dow n
P4HA1	1797.4 39729	2577.850124	1017.029335	0.3945 26169	- 1.34180 7096	0.0081 09456	0.1477 5313	Dow n
P4HA2	3154.5 03933	4877.45482	1431.553047	0.2935 04112	- 1.76854 7379	0.0004 23097	0.0228 84055	Dow n
P4HA3	454.97 6448	856.3219093	53.63098662	0.0626 29469	- 3.99701 4539	0.0012 33364	0.0464 37889	Dow n
PABPC1L 2A	67.671 28991	34.32409314	101.0184867	2.9430 78096	1.55732 5825	0.0182 38726	0.2453 15639	Up
PABPC5	21.464 43026	38.41250106	4.516359459	0.1175 75251	- 3.08834 3681	0.0016 61825	0.0570 14889	Dow n
PAK6	304.96 91619	129.2575938	480.6807299	3.7187 81356	1.89482 9928	0.0009 66114	0.0394 85521	Up
PALD1	295.18 96169	447.2538538	143.1253799	0.3200 09271	- 1.64381 4391	0.0006 52918	0.0313 10458	Dow n
PALLD	5644.7 86693	8627.312523	2662.260862	0.3085 85189	- 1.69625 9277	0.0118 2577	0.1912 41559	Dow n
PANX2	46.869 65888	8.03479556	85.70452219	10.666 67117	3.41503 8109	1.62E- 05	0.0022 38205	Up
PAPLN	2391.5 31993	1337.334154	3445.729832	2.5765 6609	1.36544 9599	0.0097 39898	0.1672 89951	Up
PAPPA	201.62 02898	294.0812356	109.1593439	0.3711 87722	- 1.42977 9105	0.0153 77413	0.2233 69967	Dow n
PAPPA2	414.26	728.9236181	99.60890251	0.1366	-	2.16E-	0.0005	Dow

	62603			52044	2.87142 1053	06	69011	n
PAQR7	438.45 72537	770.6027724	106.3117349	0.1379 59191	- 2.85768 6523	0.0079 67017	0.1464 93725	Dow n
PARD6B	63.409 25259	28.539214	98.27929117	3.4436 5795	1.78394 185	0.0080 96577	0.1476 68103	Up
PARVB	383.66 59668	543.0746671	224.2572666	0.4129 40025	- 1.27599 5834	0.0077 84438	0.1450 64825	Dow n
PBK	109.81 54402	169.709508	49.92137244	0.2941 57782	- 1.76533 7891	0.0119 24312	0.1923 18296	Dow n
PBX3	266.30 42512	437.6577145	94.95078789	0.2169 52163	- 2.20455 1124	0.0115 70119	0.1888 07117	Dow n
PCDH11X	28.167 533	54.34411318	1.990952812	0.0366 36035	- 4.77059 2831	0.0362 28416	0.3612 25864	Dow n
PCDH17	223.17 76242	314.7403892	131.6148592	0.4181 69589	- 1.25783 9948	0.0208 26511	0.2648 11184	Dow n
PCDH18	925.04 6924	1469.825976	380.2678724	0.2587 16255	- 1.95055 7392	0.0104 77779	0.1765 9035	Dow n
PCDH7	1085.4 74856	1648.662395	522.2873172	0.3167 94584	- 1.65838 0425	0.0005 39884	0.0272 72595	Dow n
PCDH9	87.244 52682	154.0514315	20.43762215	0.1326 67525	- 2.914112 83	0.0304 51137	0.3269 27042	Dow n
PCDHGC 3	1170.8 82235	1723.332755	618.431715	0.3588 57982	- 1.47851 5084	0.0037 3675	0.0961 34438	Dow n
PCLO	23.106 2365	5.446737327	40.76573567	7.4844 32096	2.90389 2852	0.0022 54161	0.0690 18991	Up
PCOLCE	10884. 26607	20375.50367	1393.028459	0.0683 67805	- 3.87053 9085	0.0053 36736	0.1171 80116	Dow n
PCOLCE2	1384.8 99382	2276.541568	493.2571953	0.2166 69532	- 2.20643 1801	2.18E- 06	0.0005 69011	Dow n
PCP4L1	202.54 12215	366.6221649	38.46027801	0.1049 04399	- 3.25285	0.0132 24396	0.2044 83501	Dow n

					2913				
PCSK6	731.94 31339	1213.885127	250.0011411	0.2059 51235	- 2.27962 5317	7.43E- 05	0.0068 9106	Dow n	
PDCD1	202.57 2799	290.7647185	114.3808796	0.3933 795	- 1.34600 6318	0.0212 80867	0.2678 05336	Dow n	
PDE10A	283.24 43286	445.2553715	121.2332857	0.2722 78098	- 1.87684 7158	0.0007 17405	0.0331 07965	Dow n	
PDE11A	10.028 46832	19.05913053	0.99780611	0.0523 53181	- 4.25557 8992	0.0067 04475	0.1329 28964	Dow n	
PDE1A	341.57 33258	562.9842581	120.1623935	0.2134 38283	- 2.22810 9127	8.50E- 06	0.0014 55667	Dow n	
PDE3B	527.72 87602	269.2077964	786.2497239	2.9206 05326	1.54626 7414	0.0031 71638	0.0866 80179	Up	
PDE5A	155.21 39571	251.6867219	58.74119222	0.2333 90112	- 2.09918 4655	0.0349 31598	0.3538 76846	Dow n	
PDGFD	595.91 55165	861.3680536	330.4629794	0.3836 48985	- 1.38214 1157	0.0177 43222	0.2417 24521	Dow n	
PDGFRA	4838.5 49908	8499.707751	1177.392064	0.1385 21476	- 2.85181 8429	0.0089 71821	0.1580 21806	Dow n	
PDGFRB	5420.6 74697	7648.79035	3192.559043	0.4173 9398	- 1.26051 8303	0.0021 42533	0.0672 41136	Dow n	
PDGFRL	1278.1 36661	2328.518203	227.7551192	0.0978 11183	- 3.35385 6774	0.0031 36643	0.0861 16427	Dow n	
PDK3	549.23 80865	820.91644	277.5597331	0.3381 09605	- 1.56443 7095	0.0040 47086	0.1005 23131	Dow n	
PDLIM7	6404.5 01297	10345.24594	2463.75665	0.2381 53512	- 2.07003 6273	0.0010 29193	0.0409 46851	Dow n	
PDXK	4475.7 82257	2276.508876	6675.055639	2.9321 45669	1.55195 6778	0.0030 47455	0.0850 9686	Up	
PDZD7	78.960 2927	123.3485464	34.57203895	0.2802 79257	- 1.83506 3118	0.0333 04416	0.3434 13594	Dow n	

PEAK1	2396.5 52369	3504.986402	1288.118337	0.3675 10224	- 1.44414 371	0.0021 63957	0.0673 26013	Dow n
PEG10	194.28 45382	318.2076914	70.36138504	0.2211 17801	- 2.177112 921	6.68E- 05	0.0065 10633	Dow n
PERP	1467.5 41657	368.0693454	2567.013968	6.9742 67215	2.80204 1641	1.55E- 05	0.0021 72137	Up
PFKP	2069.5 1979	2848.784108	1290.255473	0.4529 14445	- 1.14268 9542	0.0185 13796	0.2472 0819	Dow n
PFN2	1213.1 17346	1698.262849	727.9718433	0.4286 56756	- 1.22210 5214	0.0352 90589	0.3557 34678	Dow n
PHB	2663.4 51403	1630.397164	3696.505642	2.2672 42439	1.18093 8668	0.0131 66604	0.2041 53801	Up
PHLDB1	3455.5 29162	4914.027781	1997.030543	0.4063 93824	- 1.29904 9616	0.0035 42523	0.0931 73424	Dow n
PHLDB2	3058.4 926	4534.822971	1582.162228	0.3488 91729	- 1.51914 8697	0.0054 59157	0.1179 95224	Dow n
PHTF2	382.73 12596	592.8559791	172.6065401	0.2911 44133	- 1.78019 4548	0.0042 08225	0.1024 4903	Dow n
PHYHIP	126.02 65759	61.65374975	190.399402	3.0882 04736	1.62676 8401	0.0401 23516	0.3810 46533	Up
PI16	20329. 245	38264.57268	2393.917318	0.0625 62238	- 3.99856 4059	3.32E- 08	2.02E- 05	Dow n
PID1	563.21 95133	852.5515528	273.8874737	0.3212 56202	- 1.63820 3789	0.0067 25712	0.1332 03175	Dow n
PIEZO2	598.36 59175	1075.557579	121.1742565	0.1126 61803	- 3.14992 9624	0.0053 62351	0.1173 12844	Dow n
PIGM	412.88 14535	252.6688321	573.094075	2.2681 62916	1.18152 4269	0.0241 6822	0.2863 81143	Up
PIK3AP1	1180.9 21502	575.7474723	1786.095531	3.1022 2036	1.63330 1169	0.0123 74764	0.1965 86028	Up
PIP5K1B	487.78 71013	288.0730335	687.5011691	2.3865 51635	1.25492 7551	0.0286 53642	0.3148 89897	Up
PKD1	6353.0 14799	9624.788949	3081.24065	0.3201 35918	- 1.64324	0.0008 30285	0.0365 95624	Dow n

					3542			
PKD2	1990.3 37423	2834.546092	1146.128754	0.4043 42959	- 1.30634 8606	0.0180 97212	0.2448 0939	Dow n
PKD2L1	279.71 68387	59.27387623	500.1598012	8.4381 15289	3.07692 0799	0.0089 22182	0.1577 14947	Up
PKDCC	2350.6 19166	3885.495175	815.7431579	0.2099 4574	- 2.251911 583	0.0139 98053	0.2108 08596	Dow n
PKHD1L1	322.90 5613	563.6478642	82.16336186	0.1457 70732	- 2.77822 701	0.0265 31977	0.3017 86559	Dow n
PKLR	37.089 33632	61.24961207	12.92906058	0.2110 8804	- 2.24408 3253	0.0075 17929	0.1435 49614	Dow n
PKNOX2	506.84 69371	920.5131217	93.18075241	0.1012 26968	- 3.30433 4402	0.0253 70475	0.2941 48968	Dow n
PKP1	562.48 77589	253.2617467	871.713771	3.4419 48033	1.78322 5316	0.0014 05835	0.0505 62254	Up
PKP2	231.67 26782	110.1765676	353.1687888	3.2054 80045	1.68054 0428	0.0041 20981	0.1014 37129	Up
PKP3	513.61 10981	174.0335359	853.1886604	4.9024 38234	2.29349 9454	3.42E- 05	0.0039 97593	Up
PLA2G4F	35.112 2235	10.302285	59.92216201	5.8163 95296	2.54012 5322	0.0018 75468	0.0611 18937	Up
PLA2G7	378.20 55826	689.4524231	66.95874211	0.0971 18728	- 3.36410 6669	0.0401 74844	0.3810 46533	Dow n
PLA2R1	373.00 28608	501.0825759	244.9231458	0.4887 87991	- 1.03271 9253	0.0305 21602	0.3269 73112	Dow n
PLAC9	951.68 84027	1675.483658	227.8931471	0.1360 16335	- 2.87814 8168	6.03E- 06	0.0012 46663	Dow n
PLAU	1448.7 2868	2098.857838	798.5995227	0.3804 92432	- 1.39406 0337	0.0056 49509	0.1207 24517	Dow n
PLCB4	1141.5 93539	1682.426933	600.7601447	0.3570 79486	- 1.48568 284	0.0280 08439	0.3102 60263	Dow n
PLCD1	1077.1 74745	1575.600956	578.7485334	0.3673 19232	- 1.44489 366	0.0018 03123	0.0601 66867	Dow n

PLCD4	182.82 28454	271.0473306	94.59836014	0.3490 10484	- 1.51865 7719	0.0082 16046	0.1490 90978	Down
PLCE1	342.08 75803	543.6269616	140.548199	0.2585 37948	- 1.95155 2043	0.0002 81922	0.0170 70046	Down
PLCH2	398.92 25792	198.2620029	599.5831554	3.0241 95996	1.59655 1643	0.0157 15714	0.2253 90999	Up
PLCL1	229.73 78792	322.2609277	137.2148308	0.4257 87984	- 1.23179 2857	0.0243 26334	0.2864 44051	Down
PLCXD1	366.22 71265	29.67034617	702.7839068	23.686 40739	4.56598 7491	0.0053 3576	0.1171 80116	Up
PLCXD3	8.0619 07378	14.33842716	1.785387596	0.1245 17674	- 3.00557 7565	0.0278 45011	0.3096 27791	Down
PLD1	1151.4 69706	1794.120227	508.8191858	0.2836 03729	- 1.81805 1595	0.0169 41297	0.2358 01348	Down
PLEK2	86.307 09612	32.46658912	140.1476031	4.3166 71598	2.10991 934	0.0352 80855	0.3557 34678	Up
PLEKHA2	309.85 34144	443.3843938	176.322435	0.3976 73977	- 1.33034 1938	0.0183 16451	0.2461 76939	Down
PLEKHD1	93.165 32206	39.87550228	146.4551418	3.6728 09957	1.87688 4248	0.0395 58542	0.3794 03337	Up
PLEKHG2	1311.6 31117	1960.691835	662.5704001	0.3379 26842	- 1.56521 7144	0.0022 85725	0.0694 77455	Down
PLEKHG4	43.346 05581	73.40069925	13.29141236	0.1810 80187	- 2.46529 9391	0.0020 35443	0.0648 99595	Down
PLEKHN1	386.19 73717	125.0327327	647.3620107	5.1775 40285	2.37226 6874	3.82E- 05	0.0043 46368	Up
PLEKHS1	412.77 27534	82.5749336	742.9705732	8.9975 31585	3.16952 9262	0.0263 13258	0.3006 29808	Up
PLIN3	1436.2 41354	880.4934452	1991.989262	2.2623 55584	1.17782 5701	0.0289 10096	0.3164 27425	Up
PLLP	196.12 87175	59.42733707	332.8300979	5.6006 22782	2.48558 7262	4.22E- 05	0.0047 70727	Up
PLN	1096.0 56223	1900.341403	291.7710435	0.1535 36119	- 2.70335 001	0.0429 65108	0.3944 34583	Down
PLOD1	3118.7	4884.171895	1353.395539	0.2770	-	0.0005	0.0266	Down

	83717			98261	1.85153 0437	14584	67907	n
PLOD2	2358.4 78855	4096.652812	620.3048984	0.1514 17493	- 2.72339 6208	9.20E- 05	0.0080 72305	Dow n
PLOD3	1723.4 0583	2326.860677	1119.950984	0.4813 14157	- 1.05494 9237	0.0207 59619	0.2645 78473	Dow n
PLSCR4	1378.6 78024	2241.484272	515.8717768	0.2301 474	- 2.119369 952	0.0354 9885	0.3570 33454	Dow n
PLXDC1	311.52 87302	451.7791944	171.278266	0.3791 1942	- 1.39927 5737	0.0093 13492	0.1618 208	Dow n
PLXDC2	1959.3 70101	3217.620728	701.1194749	0.2178 99975	- 2.19826 2066	9.41E- 06	0.0015 8056	Dow n
PLXNA3	358.49 82967	522.3243568	194.6722367	0.3727 03731	- 1.42389 8833	0.0121 31121	0.1940 87136	Dow n
PLXNA4	666.19 98121	1155.283211	177.1164134	0.1533 09952	- 2.70547 6745	0.0058 00878	0.1230 15557	Dow n
PMEPA1	3357.4 73522	5235.519205	1479.427839	0.2825 75191	- 1.82329 3287	0.0013 09128	0.0484 40436	Dow n
PMP22	2917.6 97837	4790.046177	1045.349497	0.2182 33699	- 2.19605 4197	0.0003 16368	0.0186 91351	Dow n
PNCK	198.88 46519	360.2487768	37.52052695	0.1041 51712	- 3.26324 1537	0.0295 93197	0.3214 2987	Dow n
PNMAL1	59.975 93319	87.90098022	32.05088616	0.3646 249	- 1.45551 5008	0.0372 78453	0.3672 5366	Dow n
PNMT	529.37 86567	5.615878381	1053.141435	187.52 92454	7.55097 1793	0.0001 59408	0.0117 48522	Up
PODN	2933.6 43346	4592.058897	1275.227795	0.2777 02839	- 1.84838 6166	0.0088 23418	0.1569 203	Dow n
PODXL2	72.643 01615	110.5699688	34.71606351	0.3139 73712	- 1.67128 4324	0.0025 07084	0.0746 43849	Dow n
POLM	127.51	179.7664034	75.26922653	0.4187	-	0.0448	0.4046	Dow

	7815			05749	1.25599 1369	41816	11327	n
POPDC2	20.221 77501	37.66513676	2.778413253	0.0737 6618	- 3.76089 6665	0.0004 57433	0.0241 68758	Dow n
POR	3400.5 44364	2094.876756	4706.211972	2.2465 34055	1.16770 0931	0.0156 88828	0.2253 90999	Up
PPAPDC2	100.76 30299	60.98393649	140.5421232	2.3045 76112	1.20450 1415	0.0406 6701	0.3832 503	Up
PPAPDC3	147.95 68245	219.6139639	76.29968514	0.3474 26383	- 1.52522 0781	0.0347 85577	0.3532 1797	Dow n
PPEF1	22.883 28437	37.47864934	8.287919414	0.2211 37089	- 2.17698 7081	0.0152 30603	0.2219 54564	Dow n
PPFIA4	643.76 66129	1020.894868	266.6383576	0.2611 81015	- 1.93687 8064	0.0127 23665	0.1999 81294	Dow n
PPIC	1605.9 25647	2517.257354	694.5939404	0.2759 32828	- 1.85761 0989	0.0006 66265	0.0316 96922	Dow n
PPIP5K1	518.47 0896	330.4985972	706.4431947	2.1375 07392	1.09592 9409	0.0345 62493	0.3517 47208	Up
PPM1E	33.133 99598	60.56248148	5.705510473	0.0942 08664	- 3.40799 6444	0.0088 30029	0.1569 203	Dow n
PPP1R14 D	196.89 25232	65.05968763	328.7253588	5.0526 73487	2.33704 6953	9.75E- 05	0.0083 90882	Up
PPP1R1A	56.691 68676	90.88345491	22.49991862	0.2475 68918	- 2.01409 7896	0.0293 02866	0.3195 59389	Dow n
PPP1R2	628.26 33303	868.7176902	387.8089703	0.4464 15417	- 1.16354 1242	0.0261 28605	0.2994 71455	Dow n
PPP1R3G	99.217 81577	157.7158366	40.719795	0.2581 84567	- 1.95352 5328	0.0020 43843	0.0650 52096	Dow n
PPP1R42	26.163 16175	42.04267082	10.28365268	0.2446 00366	- 2.03150 1531	0.0137 7689	0.2090 39288	Dow n
PPP2R2C	375.27 05469	740.5925685	9.948525304	0.0134 33196	- 6.21805 3575	0.0002 46335	0.0158 87118	Dow n
PRAF2	841.77	1193.632865	489.9181981	0.4104	-	0.0075	0.1435	Dow

	55317			42953	1.28474 6378	99357	49614	n
PRC1	344.85 03838	540.4831337	149.217634	0.2760 81943	- 1.85683 156	0.0012 4613	0.0467 83193	Dow n
PRCP	594.01 91041	799.7905199	388.2476883	0.4854 36722	- 1.04264 4846	0.0400 11164	0.3806 98819	Dow n
PRDM6	68.713 05026	114.3727273	23.05337322	0.2015 63552	- 2.31069 3307	0.0112 56681	0.1855 44363	Dow n
PRDM8	213.99 22894	375.9114972	52.07308161	0.1385 24844	- 2.85178 335	0.0001 1305	0.0092 40822	Dow n
PRELP	5875.1 46113	9697.332501	2052.959724	0.2117 03551	- 2.23988 2627	0.0019 33632	0.0625 66177	Dow n
PRF1	143.30 82025	79.00672101	207.6096839	2.6277 47124	1.39382 6448	0.0135 84486	0.2079 06218	Up
PRG4	4952.7 53337	9820.839823	84.6668507	0.0086 21142	- 6.85790 5364	3.37E- 08	2.02E- 05	Dow n
PRICKLE 1	694.52 1743	1021.614082	367.4294036	0.3596 55774	- 1.475311 329	0.0035 2708	0.0931 38742	Dow n
PRICKLE 2	564.97 18769	941.1763174	188.7674364	0.2005 65434	- 2.31785 5107	0.0019 11256	0.0621 52119	Dow n
PRKCB	320.37 47366	487.9284906	152.8209826	0.3132 03647	- 1.67482 7085	0.0490 3522	0.4251 68933	Dow n
PRKCDB P	3882.2 91578	5694.537475	2070.045682	0.3635 14278	- 1.45991 6062	0.0034 10162	0.0904 00692	Dow n
PRKG1	727.70 53826	1078.075255	377.3355101	0.3500 08507	- 1.51453 8109	0.0464 95421	0.4141 29347	Dow n
PRKRA	278.95 7272	442.5162524	115.3982917	0.2607 77522	- 1.93910 8576	0.0018 33584	0.0605 27213	Dow n
PRND	192.62 36182	293.0880293	92.15920707	0.3144 42072	- 1.66913 3835	0.0072 18402	0.1391 30255	Dow n
PROCR	744.35	1310.557458	178.1561537	0.1359	-	2.41E-	0.0001	Dow

	68057			39216	2.87896 6384	07	03346	n
PROKR2	128.19 92815	27.41166982	228.9868933	8.3536 28025	3.06240 2904	0.0238 13157	0.2848 68462	Up
PROM2	267.17 62901	101.7975841	432.5549961	4.2491 67599	2.08718 0249	0.0004 95547	0.0257 55567	Up
PROS1	2682.9 72196	4186.167391	1179.777	0.2818 27478	- 1.827115 812	0.0032 06465	0.0871 02502	Down
PROX1	653.70 71139	935.0549857	372.359242	0.3982 2176	- 1.32835 6039	0.0030 01188	0.0848 59065	Down
PRR15L	214.65 45157	117.8112924	311.4977389	2.6440 39739	1.40274 386	0.0446 06538	0.4037 03762	Up
PRRG2	195.13 12334	97.89854598	292.3639209	2.9863 96968	1.57840 5949	0.0229 91531	0.2791 74007	Up
PRRG4	72.196 47983	24.6275191	119.7654406	4.8630 73705	2.28186 8457	0.0007 6553	0.0347 63937	Up
PRRX1	874.45 51336	1550.274926	198.6353416	0.1281 29107	- 2.96432 9847	0.0005 19414	0.0267 63964	Down
PRRX2	1052.5 39591	1741.375519	363.7036633	0.2088 59984	- 2.25939 1985	0.0001 11774	0.0091 94511	Down
PRSS22	344.59 04591	12.76154505	676.4193731	53.004 50459	5.72804 3067	0.0008 71366	0.0374 03027	Up
PRSS48	18.216 78622	36.43357244	0	0	#NAME ?	0.0082 55048	0.1494 97012	Down
PRX	113.41 24458	65.71311506	161.1117766	2.4517 44625	1.29380 8715	0.0389 20256	0.3764 94332	Up
PSAT1	1372.7 20373	642.9408253	2102.49992	3.2701 29749	1.70934 7879	0.0206 73014	0.2640 36091	Up
PSD4	621.19 98157	362.0813731	880.3182583	2.4312 71874	1.281711 23	0.0091 88346	0.1607 96121	Up
PSORS1C 2	16.375 51992	0	32.75103984	Inf	Inf	0.0013 8376	0.0498 68051	Up
PTGDS	6364.9 70822	3491.77401	9238.167633	2.6456 94598	1.40364 6536	0.0159 34686	0.2274 23378	Up
PTGER3	220.31 57612	360.755592	79.8759304	0.2214 12868	- 2.17518 9022	0.0117 08241	0.1905 32428	Down
PTGFRN	4603.7 3146	7655.452251	1552.010669	0.2027 32721	- 2.30234 9133	0.0232 23427	0.2808 55371	Down

PTGIR	126.18 29074	206.270493	46.09532168	0.2234 70265	- 2.16184 5218	0.0001 91624	0.0135 83244	Dow n
PTGIS	1763.9 18944	3211.565481	316.2724076	0.0984 79203	- 3.34403 711	0.0012 08022	0.0457 34431	Dow n
PTH1R	168.19 31044	248.7153257	87.67088312	0.3524 94897	- 1.50432 5723	0.0037 25897	0.0961 00187	Dow n
PTN	1893.1 63491	3267.777634	518.5493472	0.1586 85628	- 2.65575 6621	0.0117 54064	0.1907 70149	Dow n
PTPDC1	146.64 42808	213.7178596	79.57070196	0.3723 16577	- 1.42539 8243	0.0380 61413	0.3709 80161	Dow n
PTPLA	227.99 80132	366.6828486	89.31317787	0.2435 70645	- 2.03758 7825	0.0184 11687	0.2470 11151	Dow n
PTPN22	53.831 96071	23.53658951	84.12733191	3.5743 21245	1.83766 9304	0.0486 82512	0.4237 45214	Up
PTPRK	1588.1 57925	988.971668	2187.344183	2.2117 35941	1.14517 9153	0.0316 14143	0.3333 79686	Up
PTPRQ	137.64 22669	270.7111721	4.573361753	0.0168 93879	- 5.88735 5577	0.0020 67396	0.0654 67676	Dow n
PTPRS	2339.8 97791	3850.457853	829.3377294	0.2153 86783	- 2.21499 8373	1.32E- 05	0.0019 4338	Dow n
PTPRZ1	156.86 2045	81.54607321	232.1780167	2.8472 00455	1.50954 4068	0.0270 97592	0.3058 98299	Up
PTTG1	60.792 58804	90.91199028	30.67318581	0.3373 94283	- 1.56749 2566	0.0480 88991	0.4204 12522	Dow n
PVRIG	109.16 34704	58.05796309	160.2689776	2.7604 99492	1.46492 9336	0.0117 18226	0.1905 32428	Up
PVRL3	165.78 3761	267.7672505	63.80027158	0.2382 67643	- 2.06934 5051	0.0008 70815	0.0374 03027	Dow n
PXDN	5101.0 37241	6832.754671	3369.319812	0.4931 1295	- 1.02000 9954	0.0153 16708	0.2229 84649	Dow n
PYGM	279.35 9587	545.0180895	13.70108449	0.0251 3877	- 5.31394 2117	0.0448 41488	0.4046 11327	Dow n

QPCT	636.64 08395	1151.880993	121.4006863	0.1053 93428	- 3.24614 3189	0.0361 97628	0.3612 25864	Down
RAB11FIP 4	97.278 1678	37.46353444	157.0928012	4.1932 18913	2.06805 815	0.0008 8233	0.0375 99374	Up
RAB15	713.14 73713	285.0711462	1141.223597	4.0032 93956	2.001187 555	0.0001 88041	0.0134 18824	Up
RAB17	92.356 47406	21.51274045	163.2002077	7.5862 11901	2.92337 967	0.0109 68514	0.1825 73604	Up
RAB20	185.28 34691	74.74891635	295.8180219	3.9574 89103	1.98458 5378	0.0027 94055	0.0805 21626	Up
RAB23	229.11 19748	328.9670549	129.2568948	0.3929 17445	- 1.34770 1871	0.0177 23261	0.2416 35642	Down
RAB30	595.10 99198	852.6560712	337.5637684	0.3958 96751	- 1.33680 3867	0.0060 13212	0.1255 93029	Down
RAB3C	114.60 74967	182.8145644	46.40042908	0.2538 11447	- 1.97817 0959	0.0007 00309	0.0328 63302	Down
RAB3IL1	502.38 88104	785.5190242	219.2585965	0.2791 25762	- 1.84101 2808	0.0001 85992	0.0133 25487	Down
RAB3IP	2098.6 77299	1023.471926	3173.882671	3.1010 94022	1.63277 7268	0.0030 24054	0.0850 45521	Up
RAB6B	28.672 91872	52.30924447	5.036592983	0.0962 8495	- 3.37654 5879	0.0002 19394	0.0148 88165	Down
RADIL	80.603 46504	114.5216106	46.68531951	0.4076 55108	- 1.29457 9003	0.0166 85268	0.2335 02855	Down
RAI2	293.96 70897	523.9865611	63.94761829	0.1220 40569	- 3.03456 7278	2.77E- 08	1.99E- 05	Down
RANBP3L	7.9219 85273	1.392089882	14.45188066	10.381 42785	3.37593 2979	0.0286 38481	0.3148 89897	Up
RAP1GAP	267.02 60502	85.35289792	448.6992025	5.2569 88497	2.39423 6578	2.86E- 05	0.0034 97108	Up
RAP1GAP 2	151.28 51654	92.64875042	209.9215804	2.2657 78864	1.18000 7063	0.0320 84694	0.3356 48076	Up
RAPGEFL 1	369.96 89786	216.0387711	523.899186	2.4250 23912	1.27799 8973	0.0351 50287	0.3551 16633	Up
RARRES1	8697.7 31607	16776.32514	619.1380703	0.0369 05464	- 4.76002	0.0303 74431	0.3262 98326	Down

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RASA4B	650.32 3756	946.5475168	354.0999951	0.3740 96375	- 1.41851 8108	0.0128 13928	0.2005 50792	Dow n	
RASGEF1 C	24.139 29071	8.986360599	39.29222082	4.3724 28681	2.12843 4852	0.0284 76194	0.3141 64043	Up	
RASGRF1	7.7785 02628	14.30619254	1.250812716	0.0874 31559	- 3.51570 2068	0.0401 06564	0.3810 46533	Dow n	
RASGRP2	283.11 38349	430.6771725	135.5504972	0.3147 38059	- 1.66777 6452	0.0010 0875	0.0406 14294	Dow n	
RASL12	1510.8 46001	2252.23798	769.4540218	0.3416 39751	- 1.54945 2249	0.0468 02852	0.4152 22343	Dow n	
RASSF10	150.62 43923	73.81853722	227.4302473	3.0809 36793	1.62336 9085	0.0065 38493	0.1314 91244	Up	
RASSF6	167.09 42229	51.63530771	282.5531381	5.4720 91688	2.45209 2404	0.0039 50636	0.0998 09354	Up	
RASSF7	186.46 88755	94.4017237	278.5360274	2.9505 39635	1.56097 8838	0.0119 82349	0.1929 08308	Up	
RASSF9	359.35 28613	508.3192042	210.3865183	0.4138 86622	- 1.27269 2478	0.0281 03617	0.3110 07593	Dow n	
RAVER2	144.71 60464	244.8333775	44.59871524	0.1821 59458	- 2.45672 6195	0.0134 35791	0.2068 41546	Dow n	
RBMS3	676.12 81709	982.3189525	369.9373893	0.3765 96001	- 1.40891 0414	0.0026 35462	0.0773 14048	Dow n	
RBP4	1354.4 01227	2010.757538	698.0449157	0.3471 5519	- 1.52634 7354	0.0008 55779	0.0373 33774	Dow n	
RBPMS	2082.8 57153	2855.991592	1309.722714	0.4585 87734	- 1.12473 0326	0.0425 51467	0.3931 014	Dow n	
RCAN2	249.97 47057	393.9849602	105.9644512	0.2689 55574	- 1.89456 0205	0.0002 21887	0.0149 77235	Dow n	
RCN1	9291.7 20198	16027.17297	2556.267429	0.1594 95841	- 2.64840 9291	0.0013 61695	0.0494 69422	Dow n	
RCN3	3010.7 86968	5325.945772	695.6281642	0.1306 11199	- 2.93664	1.31E- 05	0.0019 4338	Dow n	

					9489			
RDH11	1476.3 90377	671.2250051	2281.555748	3.3990 92303	1.76514 9539	0.0188 96604	0.2500 49761	Up
RDH13	544.10 25351	326.0673289	762.1377413	2.3373 63096	1.22488 1866	0.0147 90492	0.2180 14284	Up
RECK	925.96 21665	1467.449052	384.4752815	0.2620 02474	- 1.93234 7662	0.0001 30862	0.0101 87408	Down
RELB	843.44 91488	468.4154853	1218.482812	2.6012 8636	1.37922 5225	0.0061 92145	0.1276 98793	Up
RELN	760.24 77386	1288.91297	231.5825073	0.1796 72726	- 2.47655 6666	7.34E- 05	0.0068 64905	Down
REV3L	2061.9 63873	3094.66663	1029.261115	0.3325 9192	- 1.58817 4976	0.0296 06302	0.3214 2987	Down
RGMB	1432.9 22586	1936.260042	929.5851297	0.4800 93122	- 1.05861 3826	0.0300 35648	0.3239 89555	Down
RGS7	215.46 43894	319.098993	111.8297859	0.3504 54838	- 1.51269 9554	0.0115 91967	0.1889 31861	Down
RGS9	324.99 54792	470.8687614	179.1221971	0.3804 07901	- 1.39438 0885	0.0084 10569	0.1517 02362	Down
RHBDL1	197.09 86872	277.530443	116.6669313	0.4203 75257	- 1.25025 0339	0.0146 07525	0.2163 81488	Down
RHBDL2	373.21 07598	194.46303	551.9584895	2.8383 72361	1.50506 3866	0.0053 50147	0.1173 12844	Up
RHOBTB 3	2536.4 87901	3528.856722	1544.11908	0.4375 69219	- 1.19241 684	0.0202 02881	0.2606 22963	Down
RHOV	550.08 68224	92.19033956	1007.983305	10.933 71941	3.45071 2353	0.0122 40717	0.1954 38959	Up
RIC3	328.65 78936	125.188396	532.1273911	4.2506 12741	2.08767 0826	0.0001 62459	0.0118 76008	Up
RIN2	1683.2 61826	1119.959803	2246.563848	2.0059 32571	1.00427 3111	0.0408 58424	0.3838 85602	Up
RIPK4	528.05 60949	198.0731686	858.0390212	4.3319 29595	2.115009 796	0.0001 14547	0.0092 78785	Up
RIPPLY3	36.362 233	7.02929861	65.69516739	9.3459 06474	3.22433 46	0.0025 982	0.0765 95778	Up
RNASE13	56.208	82.573832	29.84359102	0.3614	-	0.0193	0.2521	Down

	71151			17053	1.46826 3515	05851	58604	n
RND1	217.96 80585	69.11732871	366.8187882	5.3071 89891	2.40794 8169	0.0030 68759	0.0853 46759	Up
RNF121	1001.5 4331	663.9536816	1339.132938	2.0169 07165	1.01214 4681	0.0300 06167	0.3239 69216	Up
RNF128	676.07 9723	307.4710405	1044.688405	3.3976 80652	1.76455 026	0.0009 20148	0.0385 85331	Up
RNF183	55.002 44966	13.15285584	96.85204349	7.3635 7523	2.88040 6407	0.0220 13121	0.2729 44996	Up
RNF39	161.43 77568	86.25454406	236.6209694	2.7432 87	1.45590 5564	0.0179 12827	0.2434 4062	Up
ROBO3	79.832 51694	148.2649111	11.40012278	0.0768 90228	- 3.70105 5937	5.28E- 08	2.97E- 05	Down
ROR1	359.59 64547	581.287565	137.9053445	0.2372 41174	- 2.07557 3677	0.0255 27958	0.2947 2169	Down
ROR2	212.16 21055	342.5902121	81.73399891	0.2385 76573	- 2.06747 5707	0.0021 94733	0.0681 02096	Down
RORC	426.13 82954	104.7295746	747.5470163	7.1378 7886	2.83549 5417	5.18E- 07	0.0001 93956	Up
RPS6KA1	508.62 05027	314.9944315	702.2465738	2.2293 93613	1.15665 1356	0.0186 03254	0.2474 42548	Up
RPS6KA2	702.58 22967	962.5153525	442.649241	0.4598 8798	- 1.12064 5605	0.0242 21091	0.2863 81143	Down
RRAS	1462.9 2064	2228.596586	697.2446933	0.3128 62677	- 1.67639 8534	0.0222 81658	0.2746 34033	Down
RSPO2	31.739 56175	50.97184942	12.50727407	0.2453 76109	- 2.02693 3308	0.0370 20562	0.3655 90756	Down
RSPO3	163.29 31585	305.4242333	21.16208364	0.0692 87507	- 3.85126 0946	0.0436 35919	0.3985 29575	Down
RTKN	535.90 27723	258.3613541	813.4441905	3.1484 74714	1.65465 3081	0.0045 52215	0.1070 48899	Up
RTN2	129.07 36851	184.0653098	74.08206041	0.4024 77037	- 1.31302 1623	0.0207 41342	0.2645 33019	Down
RTN4RL1	22.560 58406	33.13902906	11.98213905	0.3615 7182	- 1.46764	0.0361 76144	0.3612 25864	Down

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RTP3	44.129 30055	4.340156555	83.91844454	19.335 34965	4.27316 8949	0.0075 39496	0.1435 49614	Up
RUNDC3 B	188.76 00759	67.49049866	310.0296531	4.5936 78506	2.19964 9892	0.0120 51442	0.1935 00973	Up
RUNX1T1	40.959 10502	61.08857926	20.82963078	0.3409 74222	- 1.55226 5421	0.0307 80244	0.3286 94256	Down
RXFP2	9.8378 04848	16.66306956	3.012540138	0.1807 91428	- 2.46760 182	0.0456 04189	0.4088 23597	Down
S100A10	3758.1 53066	5357.283481	2159.02265	0.4030 06983	- 1.311123 26	0.0101 71137	0.1733 72089	Down
S100A14	3900.3 4048	1476.435827	6324.245133	4.2834 54124	2.09877 4637	0.0336 90706	0.3456 13215	Up
S100A2	4677.2 8198	284.8960695	9069.667891	31.835 00533	4.99254 2101	0.0029 8709	0.0848 05899	Up
S100A4	7053.0 21604	12124.81875	1981.22446	0.1634 02398	- 2.61349 8938	0.0003 60139	0.0204 81347	Down
S100A6	136.97 49973	194.3943237	79.55567098	0.4092 4894	- 1.28894 9414	0.0125 17918	0.1984 38578	Down
S100A8	585.63 92046	145.0799052	1026.198504	7.0733 33159	2.82239 0215	0.0459 54548	0.4107 59961	Up
S100A9	3709.6 96912	401.5551768	7017.838646	17.476 64842	4.12735 6634	0.0084 20702	0.1517 32947	Up
S1PR2	699.42 53839	965.3726377	433.4781302	0.4490 26742	- 1.15512 6728	0.0308 81884	0.3290 93852	Down
S1PR3	221.06 3964	313.9233306	128.2045974	0.4083 94614	- 1.29196 4255	0.0406 21456	0.3832 503	Down
S1PR5	271.81 00128	58.62869658	484.991329	8.2722 51598	3.04828 0065	0.0229 38933	0.2790 32639	Up
SAA3	41868. 77827	587.8826591	83149.67389	141.43 92355	7.14403 8572	0.0002 85525	0.0171 72581	Up
SACS	761.63 62649	1163.593718	359.6788122	0.3091 10308	- 1.69380 6331	0.0214 61908	0.2685 71055	Down
SAMD14	164.93 43262	281.0689357	48.79971677	0.1736 21879	- 2.52597 9333	0.0018 76086	0.0611 18937	Down

SAMD4A	1915.0 27183	2808.735058	1021.319307	0.3636 22515	- 1.45948 6561	0.0363 21055	0.3613 95383	Down
SAMSN1	196.58 27737	100.3782614	292.7872859	2.9168 3958	1.54440 6043	0.0156 60753	0.2253 0186	Up
SARM1	230.06 5437	315.3123148	144.8185592	0.4592 86087	- 1.12253 5014	0.0211 33008	0.2672 53788	Down
SAT2	71.701 94102	107.3663098	36.03757224	0.3356 50655	- 1.57496 7636	0.0193 08369	0.2521 58604	Down
SCARA5	4281.8 48434	7700.383497	863.3133696	0.1121 13036	- 3.15697 4061	0.0078 70939	0.1458 36369	Down
SCARF2	941.93 67761	1489.229881	394.6436714	0.2649 98491	- 1.91594 395	6.49E- 05	0.0063 73879	Down
SCEL	9.2828 45075	1.014368127	17.55132202	17.302 71442	4.112926 478	0.0063 79205	0.1296 23999	Up
SCG3	42.002 02365	73.17172047	10.83232683	0.1480 39799	- 2.75594 3008	0.0150 75206	0.2205 8375	Down
SCGB1D	966.90 03663	149.3601351	1784.440598	11.947 23476	3.57860 4834	4.07E- 10	5.23E- 07	Up
SCGB2A2	317.04 49053	29.15170496	604.9381056	20.751 37994	4.37513 5372	0.0037 52326	0.0961 40131	Up
SCHIP1	457.19 39542	697.9495329	216.4383754	0.3101 06054	- 1.68916 6405	0.0214 76126	0.2685 71055	Down
SCML1	121.55 40101	193.6780351	49.42998509	0.2552 173	- 1.97020 1972	0.0018 45491	0.0607 82895	Down
SCML4	105.95 07016	45.10761279	166.7937904	3.6976 86046	1.88662 2737	0.0033 0752	0.0890 11076	Up
SCN2A	26.130 60984	41.68189946	10.57932022	0.2538 10895	- 1.97817 4094	0.0163 01307	0.2293 79036	Down
SCN2B	42.931 72416	68.5474694	17.31597892	0.2526 12957	- 1.98499 9457	0.0051 32567	0.1149 66266	Down
SCN3A	352.54 64462	655.4981393	49.59475322	0.0756 5964	- 3.72433 2278	7.31E- 07	0.0002 47976	Down
SCN5A	88.824	3.043104382	174.6067277	57.377	5.84242	0.0432	0.3964	Up

	91606			83061	1517	52775	39677	
SCNN1B	16.276 83389	1.6510145	30.90265328	18.717 37243	4.22630 6016	0.0011 64501	0.0447 56666	Up
SCNN1G	165.27 56054	9.977365283	320.5738455	32.130 11014	5.00585 4021	5.42E- 13	1.95E- 09	Up
SCRN1	364.14 74306	644.7099218	83.58493936	0.1296 4736	- 2.94733 5265	2.06E- 05	0.0027 48982	Down
SCX	18.483 35091	31.8825464	5.084155416	0.1594 65162	- 2.64868 6822	0.0122 92589	0.1956 26218	Down
SDK1	778.83 31754	1116.316538	441.3498131	0.3953 62604	- 1.33875 1678	0.0130 65115	0.2032 49527	Down
SDR9C7	76.078 07597	21.1350187	131.0211332	6.1992 43781	2.63209 2238	7.87E- 05	0.0071 85859	Up
SEC1	12.578 55734	3.159076453	21.99803822	6.9634 39646	2.79980 0113	0.0376 27977	0.3689 55236	Up
SEC14L2	42.955 08932	11.0988343	74.81134433	6.7404 68618	2.75284 8895	0.0289 69212	0.3168 81594	Up
SEC14L4	22.974 03659	5.895737363	40.05233581	6.7934 39623	2.76414 2218	0.0033 11372	0.0890 11076	Up
SEC23A	1794.1 0477	2834.968111	753.2414298	0.2656 96615	- 1.91214 8249	0.0040 7828	0.1008 79923	Down
SEMA3B	1366.3 72266	2246.770158	485.9743735	0.2162 99105	- 2.20890 0402	1.41E- 05	0.0020 45917	Down
SEMA3C	1350.6 31547	2405.174812	296.088282	0.1231 04683	- 3.02204 2455	3.17E- 06	0.0007 39905	Down
SEMA3D	95.876 89543	165.4159912	26.33779968	0.1592 21605	- 2.65089 198	0.0226 38216	0.2767 52579	Down
SEMA4B	1037.2 1045	307.7902562	1766.630644	5.7397 22454	2.52098 0977	0.0010 39904	0.0412 81672	Up
SEMA4D	1131.1 17738	665.9592777	1596.276198	2.3969 57668	1.26120 443	0.0092 00868	0.1607 96121	Up
SEMA5A	2110.1 32072	3255.605706	964.6584384	0.2963 06901	- 1.75483 5866	0.0068 41599	0.1349 04028	Down
SEMA5B	147.60 98672	241.5513514	53.66838293	0.2221 82085	- 2.17018 56	8.80E- 05	0.0078 7184	Down

1-Sep	146.67 95054	91.61774154	201.7412692	2.2019 8911	1.13880 7334	0.0312 15059	0.3313 69782	Up
5-Sep	629.02 25981	921.706269	336.3389273	0.3649 09016	- 1.45439 13	0.0029 4165	0.0839 67756	Down
6-Sep	1090.2 519	1590.153265	590.3505352	0.3712 53858	- 1.42952 2075	0.0389 41198	0.3764 94384	Down
SERF1A	99.412 65669	150.590597	48.23471637	0.3203 0364	- 1.64248 7902	0.0063 09076	0.1287 07878	Down
SERPINA 1	1269.6 79785	128.703526	2410.656043	18.730 30304	4.22730 2336	2.57E- 13	1.22E- 09	Up
SERPINA 11	479.66 98065	80.14722746	879.1923854	10.969 71677	3.45545 4372	1.69E- 09	1.90E- 06	Up
SERPINA 3-1	416.23 2808	9.623402956	822.8422131	85.504 2875	6.41792 4859	0.0002 69593	0.0166 60134	Up
SERPINA 5	662.37 92624	210.8519439	1113.906581	5.2828 85045	2.40132 6017	1.49E- 05	0.0021 33067	Up
SERPINB 13	4.2498 61692	0	8.499723383	Inf	Inf	0.0279 92297	0.3102 60263	Up
SERPINB 4	28.689 55657	1.49958676	55.87952639	37.263 28338	5.21968 2895	0.0040 68708	0.1008 79923	Up
SERPINB 5	365.81 96762	155.3255136	576.3138388	3.7103 61713	1.89155 9838	0.0008 81401	0.0375 99374	Up
SERPINF 1	4709.2 35031	8901.724376	516.7456851	0.0580 50066	- 4.10655 8489	1.02E- 05	0.0016 40363	Down
SERPINF 2	129.41 6078	4.967931751	253.8642242	51.100 5861	5.67526 7933	0.0018 06712	0.0601 66867	Up
SERPING 1	12378. 60851	17701.74295	7055.47408	0.3985 75106	- 1.32707 6487	0.0275 94728	0.3089 65775	Down
SERPINH 1	13000. 82586	21639.14332	4362.508408	0.2016 02639	- 2.31041 3568	1.49E- 05	0.0021 33067	Down
SETBP1	719.28 58319	1020.543867	418.0277966	0.4096 12766	- 1.28766 7415	0.0467 80914	0.4152 22343	Down
SEZ6L	224.66 30186	447.1058589	2.2201782	0.0049 65666	- 7.65379 7163	0.0476 31322	0.4188 52847	Down
SFN	366.70 13169	109.6040526	623.7985812	5.6913 8245	2.50877 9129	8.22E- 06	0.0014 21354	Up

SFRP1	1981.4 79877	3106.584355	856.3753987	0.2756 64621	- 1.85901 3973	0.0070 43992	0.1376 87078	Dow n
SFRP2	11203. 52572	19881.59713	2525.454305	0.1270 2472	- 2.97681 8813	0.0048 87754	0.1119 70041	Dow n
SFRP4	4532.4 53854	8522.162225	542.7454828	0.0636 86359	- 3.97287 1796	1.56E- 05	0.0021 72137	Dow n
SFXN3	1470.3 34442	2262.426911	678.241973	0.2997 85142	- 1.73799 9213	0.0003 72146	0.0208 48306	Dow n
SGCA	105.21 55226	192.5507134	17.88033169	0.0928 60376	- 3.42879 3064	0.0192 42645	0.2520 32404	Dow n
SGCB	2033.1 85931	3264.023506	802.348355	0.2458 1574	- 2.02435 0795	0.0197 90352	0.2575 18018	Dow n
SGCE	551.32 81127	861.6908829	240.9653425	0.2796 42442	- 1.83834 4757	0.0002 52641	0.0161 68156	Dow n
SGPP2	155.65 59824	64.0634288	247.2485359	3.8594 33386	1.94838 9057	0.0018 04287	0.0601 66867	Up
SGTB	108.07 76769	154.1166885	62.0386652	0.4025 43461	- 1.31278 3541	0.0316 53951	0.3333 79686	Dow n
SH2D2A	56.847 07908	25.99455035	87.69960782	3.3737 68988	1.75436 1191	0.0076 84116	0.1442 416	Up
SH2D3A	86.751 05589	46.22871487	127.2733969	2.7531 24271	1.46106 9732	0.0179 23338	0.2434 4062	Up
SH2D4A	388.61 59223	53.2536916	723.978153	13.594 89138	3.76499 272	0.0011 47845	0.0442 95496	Up
SH3BGR	1023.7 76569	1628.374844	419.1782935	0.2574 21254	- 1.95779 6923	0.0382 00064	0.3719 28396	Dow n
SH3BP1	507.04 10132	330.9874612	683.0945653	2.0638 07985	1.04530 875	0.0369 64537	0.3654 38851	Up
SH3PXD2 B	2703.6 12285	3994.878801	1412.34577	0.3535 39078	- 1.50005 8403	0.0062 86558	0.1286 45163	Dow n
SH3RF2	149.76 24795	41.01886697	258.506092	6.3021 26586	2.65583 8733	2.14E- 05	0.0028 30347	Up
SH3TC2	640.78 30711	275.1898945	1006.376248	3.6570 24723	1.87067 038	0.0039 96664	0.0998 22246	Up

SHANK1	47.845 88212	83.85672981	11.83503443	0.1411 33985	- 2.82486 2667	7.37E- 05	0.0068 64905	Dow n
SHOX2	251.87 58408	458.5574194	45.1942622	0.0985 57477	- 3.34289 0869	8.05E- 05	0.0072 75305	Dow n
SHROOM 2	120.43 65448	69.47790247	171.3951872	2.4669 02153	1.30270 0494	0.0377 18139	0.3692 3533	Up
SHROOM 3	1575.7 98208	873.829425	2277.766992	2.6066 49452	1.38219 6579	0.0078 75779	0.1458 36369	Up
SIDT1	100.20 51151	37.93691653	162.4733138	4.2827 23231	2.09852 8447	0.0075 7494	0.1435 49614	Up
SIGMAR1	820.56 41516	520.6508795	1120.477424	2.1520 70548	1.10572 5373	0.0288 14669	0.3157 67335	Up
SIM1	16.808 19757	33.61639513	0	0	#NAME ?	0.0057 75802	0.1226 28401	Dow n
SIM2	27.548 19989	53.58301955	1.513380225	0.0282 43653	- 5.14592 9479	0.0333 28147	0.3434 37455	Dow n
SIX1	54.493 32283	77.63457592	31.35206975	0.4038 41579	- 1.30813 8637	0.0374 15672	0.3678 7645	Dow n
SIX4	313.57 9754	148.3357942	478.8237138	3.2279 71485	1.69062 7834	0.0014 79304	0.0527 00957	Up
SLAMF9	46.235 84765	82.80461723	9.667078074	0.1167 4564	- 3.09855 9417	6.42E- 06	0.0012 85676	Dow n
SLC10A6	42.517 36774	18.35877785	66.67595762	3.6318 29862	1.86069 6619	0.0091 71967	0.1607 59727	Up
SLC11A2	2629.2 89946	820.8186184	4437.761273	5.4065 06595	2.43469 67	0.0071 20368	0.1382 7817	Up
SLC12A4	2492.0 66663	3550.693365	1433.439961	0.4037 07055	- 1.30861 9296	0.0069 54742	0.1365 36167	Dow n
SLC15A2	108.52 26341	39.8023312	177.242937	4.4530 79296	2.15480 3302	0.0005 85901	0.0289 45751	Up
SLC16A2	254.09 64519	351.9415272	156.2513765	0.4439 69706	- 1.17146 6855	0.0200 50602	0.2597 76641	Dow n
SLC16A3	277.93 82303	455.0389048	100.8375558	0.2216 02054	- 2.17395 6844	0.0003 1832	0.0187 07042	Dow n
SLC17A7	48.795 47971	17.96746705	79.62349238	4.4315 36852	2.14780 711	0.0360 93434	0.3609 94559	Up

SLC18A2	12.552 04437	4.429544135	20.6745446	4.6674 20386	2.22262 5414	0.0499 25845	0.4291 63853	Up
SLC1A1	698.25 03686	148.0425155	1248.458222	8.4331 05974	3.07606 4084	0.0059 53107	0.1246 27148	Up
SLC22A1 7	993.66 31892	1394.321642	593.0047362	0.4252 99815	- 1.23344 7868	0.0075 68482	0.1435 49614	Down
SLC22A3 1	56.017 18322	19.66882547	92.36554097	4.6960 37448	2.23144 3913	0.0024 09047	0.0723 23695	Up
SLC22A5	734.12 8261	383.7696409	1084.486881	2.8258 79813	1.49870 0108	0.0179 46909	0.2434 93904	Up
SLC24A1	30.455 48909	6.993842941	53.91713525	7.7092 28775	2.94658 6541	0.0320 38671	0.3356 31001	Up
SLC25A1 0	819.25 84268	409.6341994	1228.882654	2.9999 51313	1.58493 9087	0.0031 27378	0.0859 93319	Up
SLC25A1 3	238.52 16737	115.8694607	361.1738867	3.1170 75754	1.64019 3217	0.0039 55879	0.0998 09354	Up
SLC25A4 8	169.22 5083	1.719467717	336.7306983	195.83 4266	7.61348 9411	0.0002 3168	0.0152 61155	Up
SLC26A2	2482.3 84724	622.0548949	4342.714554	6.9812 40064	2.80348 3322	0.0242 006	0.2863 81143	Up
SLC26A4	69.872 83692	2.004976828	137.740697	68.699 39598	6.10222 551	0.0013 15854	0.0484 89767	Up
SLC26A9	9.0651 14783	0.74979338	17.38043619	23.180 30093	4.53482 7391	0.0135 07479	0.2073 28913	Up
SLC27A6	647.21 31649	317.0674098	977.35892	3.0824 95677	1.62409 8871	0.0045 53879	0.1070 48899	Up
SLC2A10	172.70 22978	276.4163725	68.98822305	0.2495 80813	- 2.00242 1065	0.0006 2951	0.0306 78791	Down
SLC2A4	235.28 49124	332.777353	137.7924718	0.4140 68056	- 1.27206 0186	0.0110 20696	0.1829 96472	Down
SLC30A1	217.46 83064	294.2013651	140.7352476	0.4783 6368	- 1.06382 024	0.0351 74669	0.3551 63428	Down
SLC35G2	24.107 3712	40.91040879	7.304333617	0.1785 44626	- 2.48564 3388	0.0042 29951	0.1025 61821	Down
SLC37A1	1571.0 89153	819.8121059	2322.366201	2.8328 0301	1.50223 0282	0.0258 43858	0.2971 54797	Up
SLC37A2	265.81 30826	145.2929737	386.3331914	2.6589 94317	1.41088 0694	0.0056 52563	0.1207 24517	Up
SLC38A5	117.87	227.1194697	8.627948284	0.0379	-	0.0003	0.0193	Down

	3709			88589	4.71829 0046	35433	95791	n
SLC38A7	1272.6 12673	465.7067918	2079.518554	4.4652 95741	2.15875 573	0.0172 29584	0.2383 38158	Up
SLC39A1 2	64.471 27477	105.7277303	23.21481919	0.2195 71716	- 2.18723 5868	0.0277 77946	0.3094 98642	Down
SLC39A1 3	1225.7 52349	1634.772037	816.7326613	0.4996 00338	- 1.001153 643	0.0418 10799	0.3885 70339	Down
SLC39A1 4	2592.6 00377	1701.206295	3483.994458	2.0479 55305	1.03418 423	0.0291 78146	0.3185 88632	Up
SLC39A2	20.913 41359	4.923237961	36.90358921	7.4957 96365	2.90608 176	0.0126 92446	0.1999 81294	Up
SLC3A2	2471.7 7404	1539.674088	3403.873993	2.2107 75656	1.14455 2632	0.0299 91075	0.3239 69216	Up
SLC41A2	547.54 06649	960.7100961	134.3712336	0.1398 66578	- 2.83787 6832	0.0013 35657	0.0489 27182	Down
SLC44A4	116.07 87301	10.00072873	222.1567314	22.214 05435	4.47340 0822	0.0051 54506	0.1152 90393	Up
SLC45A3	507.68 93619	206.6031839	808.7755399	3.9146 32509	1.96887 6879	0.0349 87888	0.3538 76846	Up
SLC46A1	124.46 15414	66.86309041	182.0599923	2.7228 77319	1.44513 1982	0.0094 83916	0.1641 47507	Up
SLC46A2	106.28 43575	68.58408398	143.9846311	2.0993 88411	1.06996 9107	0.0483 3669	0.4216 64412	Up
SLC4A4	639.93 70903	1095.217764	184.6564161	0.1686 02466	- 2.56830 2455	0.0157 12127	0.2253 90999	Down
SLC6A12	76.844 98548	2.912611004	150.77736	51.767 07763	5.69396 2972	0.0022 06873	0.0683 06715	Up
SLC6A16	142.56 83656	204.2587403	80.87799081	0.3959 58531	- 1.33657 875	0.0075 78378	0.1435 49614	Down
SLC6A17	500.04 19097	943.7769994	56.30682004	0.0596 61149	- 4.06706 4431	0.0237 02067	0.2841 56185	Down
SLC6A2	213.07 12737	399.3731582	26.76938918	0.0670 28514	- 3.89908 1248	7.88E- 06	0.0013 95796	Down
SLC7A10	38.344 54489	69.4227577	7.266332088	0.1046 67869	- 3.25610 9468	0.0016 30578	0.0563 50885	Down

SLC7A2	1169.1 84038	1932.347538	406.0205386	0.2101 17761	- 2.25072 9977	0.0155 76063	0.2249 83412	Down
SLC7A8	341.63 54185	168.8885815	514.3822555	3.0456 89951	1.60676 9084	0.0041 93679	0.1023 26896	Up
SLC8A2	39.898 36649	71.16092417	8.635808799	0.1213 56052	- 3.04268 204	0.0354 13573	0.3566 27855	Down
SLC9A4	10.733 33222	0	21.46666445	Inf	Inf	7.98E- 05	0.0072 44239	Up
SLC9A9	120.25 21713	183.1957048	57.30863792	0.3128 2741	- 1.67656 1165	0.0031 61601	0.0866 69319	Down
SLCO1C1	10.642 36706	18.52998104	2.75475308	0.1486 64646	- 2.74986 649	0.0280 18833	0.3102 60263	Down
SLCO4C1	78.668 6733	23.07306817	134.2642784	5.8190 90789	2.54079 3755	0.0001 05331	0.0088 51212	Up
SLIT2	979.41 38506	1336.473031	622.3546701	0.4656 69457	- 1.10262 1837	0.0223 46171	0.2750 52151	Down
SLIT3	3306.9 45364	5554.876248	1059.014481	0.1906 45918	- 2.39103 2455	0.0008 0715	0.0358 7327	Down
SLITRK2	378.62 95227	165.834939	591.4241064	3.5663 4199	1.83444 5055	0.0454 08604	0.4076 79941	Up
SLITRK4	40.406 02001	67.70241166	13.10962836	0.1936 36062	- 2.36858 0438	0.0007 28778	0.0334 32691	Down
SLITRK5	33.147 9032	62.47202461	3.823781797	0.0612 07906	- 4.03013 8182	0.0022 91972	0.0695 05125	Down
SLMAP	3644.8 35936	5893.423628	1396.248243	0.2369 16321	- 2.07755 0507	0.0479 08151	0.4200 54747	Down
SMAD7	508.05 41302	704.5053506	311.6029098	0.4423 00274	- 1.17690 1958	0.0172 69161	0.2387 02011	Down
SMAD9	317.41 86619	500.5251618	134.312162	0.2683 42478	- 1.89785 2649	0.0375 96495	0.3689 55236	Down
SMARCD 3	1478.3 51939	2311.565573	645.1383062	0.2790 91501	- 1.841189 901	0.0122 59086	0.1954 38959	Down

SMIM14	3012.3 13823	4112.94433	1911.683317	0.4647 96789	- 1.10532 7993	0.0240 05744	0.2858 90928	Down
SMOC2	3454.8 84214	5496.123872	1413.644555	0.2572 0755	- 1.95899 5104	0.0017 76752	0.0597 2213	Down
SMPDL3 B	34.537 95118	53.8899993	15.18590305	0.2817 94456	- 1.82728 4865	0.0210 44649	0.2665 82238	Down
SMTN	4918.0 27754	8351.473445	1484.582063	0.1777 62891	- 2.49197 391	0.0159 89477	0.2280 00119	Down
SNAI2	1162.1 33421	1696.654249	627.6125917	0.3699 11897	- 1.43474 6395	0.0070 94162	0.1379 5692	Down
SNPH	291.68 38583	418.9727717	164.3949449	0.3923 76202	- 1.34969 0552	0.0129 59003	0.2021 17744	Down
SNTA1	242.47 43437	373.6740566	111.2746309	0.2977 85273	- 1.74765 5689	0.0264 8914	0.3014 90004	Down
SNX7	371.00 2104	508.8428529	233.1613551	0.4582 18787	- 1.12589 1483	0.0232 23708	0.2808 55371	Down
SOBP	229.88 22485	346.8232636	112.9412334	0.3256 44919	- 1.61862 838	0.0199 73366	0.2591 72316	Down
SOD2	19060. 91054	2298.343165	35823.47792	15.586 65323	3.96223 928	0.0088 30748	0.1569 203	Up
SOD3	810.44 86321	1207.017484	413.8797807	0.3428 94603	- 1.54416 2898	0.0156 12639	0.2251 50029	Down
SORCS1	19.429 00012	33.4481573	5.40984293	0.1617 38145	- 2.62826 8121	0.0123 41684	0.1962 33868	Down
SORCS2	154.91 0281	220.9207049	88.8998571	0.4024 06181	- 1.31327 5631	0.0095 68337	0.1649 81835	Down
SORL1	1727.2 44826	955.462907	2499.026745	2.6155 14142	1.38709 4571	0.0238 02666	0.2848 68462	Up
SOWAHA	78.660 32373	37.24159134	120.0790561	3.2243 26668	1.68899 7916	0.0132 03926	0.2043 42688	Up
SOX10	4079.2 7647	2217.604142	5940.948798	2.6789 94274	1.42169 1497	0.0161 35949	0.2286 65812	Up

SOX5	64.514 75774	104.3729018	24.65661368	0.2362 35778	- 2.08170 0616	0.0185 55992	0.2472 0819	Dow n
SPAG5	134.35 41675	196.910989	71.79734589	0.3646 18279	- 1.45554 1208	0.0449 77468	0.4052 25358	Dow n
SPARC	16793 6.1255	307757.6706	28114.58037	0.0913 5298	- 3.45240 4396	0.0002 72753	0.0167 53582	Dow n
SPATA18	35.599 90394	67.17524132	4.024566561	0.0599 11457	- 4.06102 4278	0.0427 21907	0.3938 6188	Dow n
SPATA20	608.24 58282	1006.76381	209.727846	0.2083 18817	- 2.26313 4934	0.0002 24643	0.0150 73687	Dow n
SPC24	79.737 87058	125.8278957	33.64784546	0.2674 11652	- 1.90286 5765	0.0085 01302	0.1528 7891	Dow n
SPDEF	203.31 55071	33.89859684	372.7324174	10.995 51168	3.45884 2836	0.0017 48684	0.0591 10123	Up
SPEG	2134.2 45384	3109.437691	1159.053077	0.3727 53273	- 1.42370 7074	0.0305 76372	0.3272 49487	Dow n
SPHK1	800.71 73609	489.1254584	1112.309264	2.2740 77631	1.18528 1505	0.0189 90326	0.2505 90744	Up
SPINT1	1895.3 73769	364.3614843	3426.386055	9.4038 09685	3.23324 5342	4.95E- 05	0.0052 95566	Up
SPINT2	6461.8 14075	2723.412995	10200.21516	3.7453 79484	1.905111 901	0.0003 74481	0.0209 13947	Up
SPON1	4929.0 36808	9226.244387	631.829229	0.0684 81736	- 3.86813 6923	0.0043 0243	0.1035 75087	Dow n
SPON2	1206.3 59394	2143.90603	268.8127581	0.1253 8458	- 2.99556 8156	2.63E- 08	1.97E- 05	Dow n
SPP1	20689. 02631	1796.324867	39581.72776	22.034 83817	4.46171 4396	0.0137 40814	0.2088 72938	Up
SPP2	77.017 70455	145.9813745	8.054034617	0.0551 71659	- 4.17992 8827	2.87E- 09	2.87E- 06	Dow n
SPSB1	1243.4 04755	1865.279081	621.5304297	0.3332 10422	- 1.58549 457	0.0252 44101	0.2934 48401	Dow n
SPSB4	67.304	112.0763605	22.53289761	0.2010	-	0.0241	0.2863	Dow

	62903			49512	2.31437 7259	11009	81143	n
SPTBN5	211.07 52108	309.9223884	112.2280332	0.3621 16573	- 1.46547 3888	0.0050 91322	0.1145 89783	Down
SRGAP3	194.46 83025	276.4059755	112.5306296	0.4071 20828	- 1.29647 1064	0.0150 24265	0.2203 76314	Down
SRL	295.57 97288	447.3621593	143.7972984	0.3214 33754	- 1.63740 6658	0.0096 36773	0.1659 94345	Down
SRPK3	55.228 79167	92.2688221	18.18876124	0.1971 27923	- 2.34279 5949	0.0217 2795	0.2702 16954	Down
SRPX	710.47 15368	1148.111709	272.8313647	0.2376 34859	- 2.07318 1609	2.05E- 05	0.0027 48982	Down
SRPX2	319.22 70991	576.8391833	61.61501485	0.1068 14892	- 3.22681 53	8.99E- 09	7.75E- 06	Down
SSC5D	830.95 81982	1473.748355	188.1680415	0.1276 79899	- 2.96939 6676	1.56E- 05	0.0021 72137	Down
SSPN	163.34 41414	254.9730997	71.71518314	0.2812 65683	- 1.82999 4552	0.0173 82153	0.2393 47196	Down
SSTR1	38.019 8183	59.24056905	16.79906755	0.2835 73703	- 1.81820 4342	0.0048 03033	0.1107 37156	Down
ST14	1959.4 08735	586.9637488	3331.853722	5.6764 21634	2.50498 1754	2.83E- 06	0.0006 88839	Up
ST18	18.719 83329	7.588620588	29.85104599	3.9336 59041	1.97587 1914	0.0359 90043	0.3604 00722	Up
ST3GAL3	496.81 29797	711.5859254	282.0400339	0.3963 54149	- 1.33513 8016	0.0062 1645	0.1280 31719	Down
ST6GAL2	7.0027 63648	13.75252069	0.253006606	0.0183 97108	- 5.76437 7211	0.0066 69642	0.1328 24115	Down
ST6GALN AC6	706.93 45192	961.3675713	452.5014672	0.4706 85179	- 1.08716 567	0.0208 73326	0.2648 48106	Down
ST8SIA5	35.591 66289	55.63373369	15.54959209	0.2794 99344	- 1.83908	0.0138 50813	0.2095 7266	Down

					3196				
STAB1	3615.1 93352	5752.687902	1477.698801	0.2568 71019	- 1.96088 3968	0.0009 53581	0.0392 37474	Down	
STAP2	599.82 37925	228.9236336	970.7239514	4.2403 83294	2.08419 4678	0.0001 99947	0.0140 63107	Up	
STAR	10.950 87238	1.103755707	20.79798905	18.842 92775	4.23595 1238	0.0026 67305	0.0779 93742	Up	
STC2	145.91 52484	29.48611849	262.3443782	8.8972 16443	3.15335 4049	0.0031 11821	0.0858 28028	Up	
STEAP3	1956.1 64531	851.6698033	3060.65926	3.5937 15836	1.84547 6336	0.0024 02862	0.0722 58628	Up	
STK31	70.719 16726	33.51906864	107.9192659	3.2196 37963	1.68689 8471	0.0081 50352	0.1481 97953	Up	
STK32B	6.0651 0342	11.39962765	0.730579192	0.0640 87987	- 3.96380 2228	0.0452 69553	0.4068 37764	Down	
STK38	2459.5 46402	3413.09738	1505.995424	0.4412 40099	- 1.18036 419	0.0212 35592	0.2674 98264	Down	
STRC	17.322 68194	2.936370432	31.70899345	10.798 70343	3.43278 6197	0.0033 4925	0.0895 06851	Up	
STXBP2	603.97 97941	386.3278298	821.6317583	2.1267 73416	1.08866 6338	0.0459 68785	0.4107 59961	Up	
STYXL1	18.833 7075	32.47257715	5.194837853	0.1599 76149	- 2.64407 1263	0.0303 26032	0.3259 73117	Down	
SUCNR1	63.718 11624	110.1646149	17.2716176	0.1567 80084	- 2.67318 579	0.0013 76595	0.0498 09489	Down	
SULF1	1407.8 73081	2598.219109	217.5270525	0.0837 21597	- 3.57825 6363	7.13E- 05	0.0067 50473	Down	
SUSD4	66.316 50123	120.0769497	12.55605272	0.1045 66719	- 3.25750 4338	0.0497 08297	0.4279 10147	Down	
SV2B	16.103 80622	27.22312026	4.984492185	0.1830 97754	- 2.44931 3998	0.0185 19181	0.2472 0819	Down	
SVEP1	6008.0 39571	10921.15507	1094.92407	0.1002 57167	- 3.31822 2719	0.0304 80139	0.3269 73112	Down	
SVOP	28.732 66842	50.59579382	6.869543012	0.1357 73006	- 2.88073	0.0404 05026	0.3820 20813	Down	

					1421			
SYBU	206.59 86673	115.3587875	297.8385471	2.5818 45334	1.36840 2578	0.0106 99745	0.1798 25714	Up
SYN1	44.445 09861	73.5781752	15.31202201	0.2081 05487	- 2.26461 3088	0.0476 95555	0.4192 12687	Down
SYNC	1735.2 79515	3126.060039	344.4989907	0.1102 02295	- 3.18177 3826	0.0276 09854	0.3089 65775	Down
SYNE4	159.41 90027	77.76201758	241.0759879	3.1001 76608	1.63235 0404	0.0077 46802	0.1446 63276	Up
SYNGR1	474.43 77487	255.7977319	693.0777655	2.7094 75805	1.43801 3764	0.0264 20977	0.3012 86255	Up
SYNPO2	5635.6 1648	9679.299089	1591.933872	0.1644 67887	- 2.60412 2173	0.0212 4159	0.2674 98264	Down
SYPL2	27.264 69289	45.38744273	9.141943054	0.2014 20096	- 2.311720 467	0.0230 74479	0.2798 03347	Down
SYT1	529.45 96087	155.4215941	903.4976233	5.8132 05229	2.53933 3842	0.0004 21917	0.0228 84055	Up
SYT11	549.02 31966	833.7208276	264.3255655	0.3170 43256	- 1.65724 8407	0.0344 21823	0.3513 09676	Down
SYT12	12.154 43251	3.748203972	20.56066105	5.4854 70163	2.45561 528	0.0318 8393	0.3351 07376	Up
SYT9	83.449 99975	146.1889117	20.71108783	0.1416 73452	- 2.81935 8651	9.05E- 05	0.0079 89441	Down
SYTL1	238.82 088	129.6110489	348.0307112	2.6851 93231	1.42502 5911	0.0160 83185	0.2286 35503	Up
TACC1	4141.4 85503	5700.019012	2582.951994	0.4531 47961	- 1.14194 5901	0.0157 54684	0.2253 90999	Down
TACR1	54.900 87295	3.869826172	105.9319197	27.373 81862	4.77472 4798	1.39E- 08	1.14E- 05	Up
TACSTD2	473.70 39535	105.2188062	842.1891008	8.0041 68942	3.00075 1618	0.0145 45774	0.2160 00543	Up
TAP	9.0041 6974	0.37489669	17.63344279	47.035 47207	5.55567 7279	0.0072 57795	0.1397 39748	Up
TARP	45.906 33954	22.10226396	69.71041513	3.1539 94327	1.65718 0065	0.0456 61395	0.4089 28717	Up
TASP1	286.55 66351	180.5673866	392.5458836	2.1739 57827	1.12032 3954	0.0394 50551	0.3787 38227	Up

TBC1D14	3198.1 50664	2102.733553	4293.567776	2.0418 98161	1.02991 0914	0.0487 27842	0.4237 67101	Up
TBC1D4	1106.2 43489	1579.227016	633.2599619	0.4009 93622	- 1.31834 8803	0.0097 54971	0.1673 88971	Down
TBC1D8B	556.45 5107	791.0347503	321.8754637	0.4069 04328	- 1.29723 8468	0.0269 57683	0.3048 93092	Down
TBX1	53.745 45478	99.60934013	7.881569434	0.0791 24803	- 3.65972 6184	5.84E- 07	0.0002 10199	Down
TBX15	494.81 57104	848.8379123	140.7935085	0.1658 66188	- 2.59190 8276	0.0002 16316	0.0147 34886	Down
TBX18	137.37 26207	240.105181	34.64006045	0.1442 70358	- 2.79315 3182	0.0127 44179	0.1999 81294	Down
TBX2	276.70 61711	396.3837557	157.0285864	0.3961 5293	- 1.33587 062	0.0156 31845	0.2251 77623	Down
TBX20	16.760 25078	31.52010888	2.000392672	0.0634 64015	- 3.97791 7388	0.0032 83512	0.0887 9309	Down
TCEA2	355.92 70634	481.5857157	230.2684111	0.4781 46265	- 1.06447 609	0.0425 43253	0.3931 014	Down
TCIRG1	1673.4 03309	954.9031682	2391.90345	2.5048 64922	1.32473 2806	0.0190 4561	0.2509 7639	Up
TENM2	133.79 37219	76.73708309	190.8503607	2.4870 68221	1.31444 6082	0.0379 84028	0.3704 26665	Up
TENM4	236.14 49809	346.3830035	125.9069583	0.3634 90578	- 1.46001 0125	0.0033 78774	0.0900 15553	Down
TERT	41.123 26547	16.43282061	65.81371034	4.0050 16053	2.00180 8025	0.0315 38144	0.3333 79686	Up
TEX101	7.9612 88487	0.3302029	15.59237407	47.220 58489	5.56134 4006	0.0058 72907	0.1233 79064	Up
TEX26	47.012 84939	83.87995296	10.14574583	0.1209 5555	- 3.04745 1129	0.0026 29108	0.0772 53661	Down
TF	107.98 24327	181.1862085	34.77865692	0.1919 49802	- 2.381199 019	0.0003 28616	0.0190 64999	Down
TFAP2A	1041.3	534.9887685	1547.728757	2.8930	1.53257	0.0036	0.0955	Up

	58763			11681	2149	70241	81857	
TFAP2B	227.57 95463	41.56776287	413.5913296	9.9498 09685	3.31466 8931	3.21E- 05	0.0038 14515	Up
TFAP4	177.31 78467	70.51111378	284.1245796	4.0295 00661	2.01060 107	0.0003 6104	0.0204 81347	Up
TFPI	157.88 98222	243.5568686	72.22277569	0.2965 3352	- 1.75373 2897	0.0010 2586	0.0409 12776	Down
TGFA	352.51 74751	129.1250665	575.9098837	4.4600 93606	2.15707 3989	0.0149 39641	0.2196 3364	Up
TGFB1I1	2800.7 60272	4123.96662	1477.553924	0.3582 84647	- 1.48082 1873	0.0128 51248	0.2006 98789	Down
TGFB3	1408.4 14941	2388.254811	428.5750704	0.1794 51149	- 2.47833 6933	0.0326 67726	0.3397 70802	Down
TGFBI	2586.7 33489	4382.195892	791.2710854	0.1805 64974	- 2.46941 0032	0.0427 38311	0.3938 6188	Down
TGFBR3	10750. 08662	14394.68852	7105.484731	0.4936 18512	- 1.01853 1594	0.0254 84294	0.2945 84159	Down
TGIF2	542.06 02056	359.1374805	724.9829307	2.0186 78	1.01341 0804	0.0390 25928	0.3767 0599	Up
THADA	855.36 65141	550.4807899	1160.252238	2.1077 07044	1.07567 4357	0.0429 68212	0.3944 34583	Up
THBD	2274.9 8438	3822.049786	727.9189738	0.1904 5251	- 2.39249 6796	0.0018 67113	0.0611 18937	Down
THBS2	2857.5 88774	5244.823137	470.3544114	0.0896 79747	- 3.47907 3984	5.39E- 10	6.47E- 07	Down
THBS3	1878.5 5999	3621.141742	135.9782384	0.0375 51206	- 4.73499 6959	3.13E- 08	2.02E- 05	Down
THBS4	4506.9 9868	8634.181537	379.8158238	0.0439 89789	- 4.50668 7509	0.0363 1728	0.3613 95383	Down
THEM4	246.61 14623	113.5487733	379.6741513	3.3437 09847	1.74144 9662	0.0105 26741	0.1772 49418	Up
THPO	142.15 57791	258.4784345	25.83312373	0.0999 43052	- 3.32274 9909	0.0017 64957	0.0594 36744	Down
THRB	654.75	948.2728546	361.2416196	0.3809	-	0.0013	0.0487	Down

	72371			46916	1.39233 8119	2629	74366	n
THSD4	72.729 70576	131.3567575	14.10265402	0.1073 61466	- 3.21945 1822	0.0013 82731	0.0498 68051	Dow n
THY1	9920.6 51076	16677.43936	3163.862793	0.1897 09147	- 2.39813 8854	1.06E- 06	0.0003 35445	Dow n
TIMP1	5952.4 50801	9768.280988	2136.620614	0.2187 30462	- 2.19277 394	6.12E- 05	0.0061 42806	Dow n
TIMP2	5070.6 63594	9010.09613	1131.231059	0.1255 51497	- 2.99364 8863	2.42E- 06	0.0006 00097	Dow n
TLL2	117.98 64196	229.7707553	6.202083823	0.0269 92486	- 5.211298 352	0.0266 87947	0.3029 85699	Dow n
TLR2	1315.6 34803	405.7298589	2225.539747	5.4852 74743	2.45556 3883	0.0010 99184	0.0429 7092	Up
TM4SF18	964.09 63309	480.99935	1447.193312	3.0087 2197	1.58915 0796	0.0055 40315	0.1190 34035	Up
TM4SF5	51.080 07303	16.82543061	85.33471544	5.0717 70073	2.34248 9343	0.0020 29769	0.0648 33633	Up
TM6SF1	340.03 48953	528.3083179	151.7614728	0.2872 59291	- 1.79957 454	0.0037 1114	0.0961 00187	Dow n
TMC4	893.58 13168	480.3101324	1306.852501	2.7208 51411	1.44405 8171	0.0059 28098	0.1242 48237	Up
TMCC2	68.084 02418	102.5233616	33.64468677	0.3281 66052	- 1.60750 2094	0.0235 68677	0.2833 60894	Dow n
TMCC3	253.97 79043	138.9680948	368.9877138	2.6551 97327	1.40881 9082	0.0160 55596	0.2284 23875	Up
TMED3	1416.2 35047	2219.01279	613.4573045	0.2764 55056	- 1.85488 3139	0.0006 1875	0.0303 18754	Dow n
TMEM10 2	76.469 02829	31.88311173	121.0549449	3.7968 35952	1.92479 7666	0.0074 69774	0.1433 60676	Up
TMEM116	58.512 46882	21.62023733	95.4047003	4.4127 49908	2.14167 7985	0.0030 72237	0.0853 46759	Up
TMEM119	1015.6 99923	1717.821584	313.578263	0.1825 4414	- 2.45368 2741	6.82E- 05	0.0065 91825	Dow n
TMEM13	172.55	285.5375566	59.57516234	0.2086	-	0.0121	0.1940	Dow

6	63595			42124	2.26089 7632	17044	87136	n
TMEM14 4	118.35 70181	59.81096464	176.9030716	2.9577 03035	1.56447 7207	0.0110 93948	0.1838 73541	Up
TMEM17 6A	1028.7 2531	203.4797607	1853.970859	9.1113 28091	3.18766 136	0.0001 28851	0.0101 33618	Up
TMEM17 6B	1192.6 97529	411.7619001	1973.633157	4.7931 41758	2.26097 1608	0.0011 91793	0.0453 88121	Up
TMEM20 0B	427.64 41492	636.4154718	218.8728267	0.3439 14999	- 1.53987 6056	0.0064 77347	0.1313 21457	Down
TMEM21 0	5.2990 99971	0	10.59819994	Inf	Inf	0.0104 52032	0.1764 87219	Up
TMEM23 3	22.217 48866	0.3302029	44.10477442	133.56 8707	7.06143 8237	0.0478 21908	0.4199 1278	Up
TMEM25 5A	84.481 04276	152.4541471	16.50793837	0.1082 81334	- 3.20714 3533	6.08E- 07	0.0002 14474	Down
TMEM30 B	776.12 99016	390.1797209	1162.080082	2.9783 20041	1.57449 879	0.0025 97151	0.0765 95778	Up
TMEM38 A	187.70 07901	277.7653193	97.63626084	0.3515 06304	- 1.50837 7531	0.0238 6223	0.2849 30945	Down
TMEM45 B	67.276 8218	9.860997228	124.6926464	12.645 03412	3.66049 9024	0.0006 5095	0.0313 10458	Up
TMEM47	360.70 53378	568.5906668	152.8200089	0.2687 69816	- 1.89555 6968	0.0033 44134	0.0895 06851	Down
TMEM55 A	48.692 10997	70.30482187	27.07939808	0.3851 71278	- 1.37642 7969	0.0327 66907	0.3403 25045	Down
TMEM59 L	1033.7 15983	1929.541169	137.8907977	0.0714 62999	- 3.80665 974	0.0041 36942	0.1015 53829	Down
TMEM65	389.22 40177	551.4881532	226.9598823	0.4115 40812	- 1.28089 2588	0.0149 6142	0.2196 3364	Down
TMEM74 B	30.574 66771	3.441760499	57.70757492	16.766 87699	4.06754 2092	0.0065 88831	0.1316 52164	Up
TMEM79	157.39 62805	74.67783644	240.1147246	3.2153 41205	1.68497 1841	0.0185 23092	0.2472 0819	Up
TMEM92	39.634 5677	75.97036759	3.298767821	0.0434 2177	- 4.52543 7657	0.0017 23148	0.0583 56617	Down

TMEM98	354.92 76265	546.5308742	163.3243788	0.2988 38339	- 1.74256 2845	0.0047 24317	0.1099 96813	Down
TMOD1	392.39 81296	681.200428	103.5958311	0.1520 78341	- 2.717113 394	0.0086 48152	0.1547 45994	Down
TMOD2	456.99 63348	708.2411377	205.7515319	0.2905 10563	- 1.78333 7472	0.0066 4321	0.1324 44397	Down
TMPRSS2	727.40 88828	239.2557441	1215.562021	5.0805 97024	2.34499 8039	1.10E- 05	0.0017 41648	Up
TNF	90.911 82007	26.51124067	155.3123995	5.8583 60285	2.55049 6921	0.0218 05587	0.2709 95075	Up
TNFAIP2	1051.0 53947	362.1379848	1739.969909	4.8047 1528	2.26445 0942	0.0330 98675	0.3430 0573	Up
TNFAIP3	481.87 94591	299.0243693	664.7345488	2.2230 11289	1.15251 5275	0.0188 84399	0.2500 49761	Up
TNFAIP6	415.45 8871	698.3595259	132.5582161	0.1898 13715	- 2.39734 3856	0.0089 36859	0.1577 14947	Down
TNFAIP8 L3	510.11 11201	944.5700394	75.65220084	0.0800 91679	- 3.64220 3817	0.0003 21624	0.0187 78427	Down
TNFRSF1 2A	1122.3 07729	1807.555654	437.0598035	0.2417 96042	- 2.04813 7464	0.0459 51532	0.4107 59961	Down
TNFRSF2 1	3745.8 81477	1658.172276	5833.590677	3.5180 84798	1.81479 0257	0.0008 67917	0.0374 03027	Up
TNFSF11	92.230 88856	5.615878381	178.8458987	31.846 46935	4.99306 1532	0.0002 67495	0.0165 87444	Up
TNFSF18	83.342 0845	143.1803266	23.50384244	0.1641 5553	- 2.60686 4741	0.0041 80414	0.1021 75662	Down
TNIP3	64.088 19745	0.6604058	127.5159891	193.08 73246	7.59310 965	0.0012 54354	0.0468 96152	Up
TNK1	340.29 35768	134.5443991	546.0427544	4.0584 57713	2.02093 1581	0.0002 42956	0.0157 72861	Up
TNMD	12.193 11245	22.34305024	2.043174653	0.0914 45646	- 3.45094 1716	0.0021 62652	0.0673 26013	Down
TNS1	10368. 35433	14545.69893	6191.009725	0.4256 24768	- 1.23234 599	0.0165 42855	0.2324 14189	Down
TNS4	235.31	101.7408271	368.8900354	3.6257	1.85829	0.0022	0.0683	Up

	54313			81762	2091	19576	46977	
TNXB	7779.9 24031	12427.64903	3132.19903	0.2520 34719	- 1.98830 561	4.33E- 05	0.0047 96668	Dow n
TOP1MT	37.904 22766	13.13644174	62.67201359	4.7708 51563	2.25424 68	0.0052 73413	0.1166 89318	Up
TOP2A	514.59 27362	769.4013438	259.7841287	0.3376 44496	- 1.56642 3056	0.0316 24686	0.3333 79686	Dow n
TP53INP2	731.80 38949	1056.212425	407.3953648	0.3857 13475	- 1.37439 8547	0.0474 43579	0.4178 14833	Dow n
TP63	784.89 81645	299.096012	1270.700317	4.2484 69609	2.08694 3245	0.0206 37004	0.2637 63504	Up
TPBG	1112.5 1498	2080.116639	144.913321	0.0696 65959	- 3.84340 2303	0.0135 48774	0.2077 13209	Dow n
TPM1	17799. 01854	28940.19261	6657.844464	0.2300 55292	- 2.119947 451	0.0243 86674	0.2865 8018	Dow n
TPM2	32963. 00768	59552.70348	6373.311885	0.1070 1969	- 3.22405 1835	0.0242 99	0.2863 81143	Dow n
TPST1	460.34 40141	646.3542185	274.3338096	0.4244 32613	- 1.23639 258	0.0208 36781	0.2648 11184	Dow n
TPX2	323.19 02131	465.5439435	180.8364827	0.3884 41274	- 1.36423 1591	0.0247 62228	0.2895 31304	Dow n
TRABD2 B	826.58 01069	1220.562442	432.5977718	0.3544 24941	- 1.49644 7963	0.0054 07659	0.1173 98861	Dow n
TRAF2	1220.1 59251	757.1268596	1683.191643	2.2231 30275	1.15259 2492	0.0176 7941	0.2414 03825	Up
TRAF5	339.35 48981	545.4171947	133.2926016	0.2443 86504	- 2.03276 3477	0.0385 37724	0.3735 97781	Dow n
TRAM2	2213.7 10584	3323.262248	1104.15892	0.3322 51516	- 1.58965 2312	0.0107 83792	0.1810 69027	Dow n
TRAT1	70.658 23863	39.11118759	102.2052897	2.6131 98319	1.38581 6617	0.0211 85037	0.2674 34348	Up
TREM2	123.25 04383	21.69549959	224.8053771	10.361 84376	3.37320 8831	4.80E- 05	0.0051 72796	Up

TRERF1	324.76 63312	493.6282011	155.9044613	0.3158 33781	- 1.66276 2606	0.0022 64042	0.0691 24396	Dow n
TRIM14	116.47 23292	63.7962266	169.1484318	2.6513 86153	1.40674 6802	0.0223 31698	0.2750 52151	Up
TRIM29	665.04 0081	328.4526565	1001.627506	3.0495 33885	1.60858 8747	0.0031 20784	0.0859 4342	Up
TRIM34	373.68 28967	247.4940431	499.8717504	2.0197 32452	1.01416 4196	0.0399 89995	0.3806 98819	Up
TRIM36	218.49 98983	139.9041489	297.0956477	2.1235 6567	1.08648 8724	0.0432 52142	0.3964 39677	Up
TRIM46	75.449 48081	8.698422409	142.2005392	16.347 85396	4.03102 9355	0.0493 42048	0.4266 24205	Up
TRNP1	112.79 69602	164.0207134	61.57320699	0.3753 98971	- 1.41350 34	0.0188 59661	0.2499 28729	Dow n
TRPC2	134.07 40851	84.77902559	183.3691446	2.1629 06961	1.112971 608	0.0402 70924	0.3815 3544	Up
TRPM3	88.485 46205	142.8893408	34.08158331	0.2385 17325	- 2.06783 4034	0.0005 6028	0.0281 43901	Dow n
TRPV6	265.93 20245	22.0547451	509.8093038	23.115 62892	4.53079 671	0.0043 44756	0.1043 14742	Up
TSHZ3	302.56 22971	453.1595832	151.9650111	0.3353 45465	- 1.57628 0003	0.0055 47182	0.1190 3934	Dow n
TSPAN1	212.05 00499	6.4135866	417.6865132	65.125 26286	6.02514 5385	0.0002 80188	0.0170 70046	Up
TSPAN3	2982.0 24968	1762.762787	4201.28715	2.3833 53666	1.25299 3049	0.0216 18328	0.2692 75749	Up
TTC6	14.594 59375	3.138142091	26.05104541	8.3014 23152	3.05335 8686	0.0056 64952	0.1207 54788	Up
TTLL7	370.32 40392	524.4822789	216.1657995	0.4121 50816	- 1.27875 5742	0.0058 39287	0.1231 80712	Dow n
TUBA1A	3822.1 39962	5590.913806	2053.366117	0.3672 68427	- 1.44509 3219	0.0052 98398	0.1170 22127	Dow n
TUBA1D	23.800 35186	8.225266961	39.37543676	4.7871 31767	2.25916 1517	0.0110 93966	0.1838 73541	Up
TUBA4A	831.79 29105	270.6422921	1392.943529	5.1468 06578	2.36367 7566	0.0079 05114	0.1458 36369	Up
TUBB2B	238.76 74034	331.1762906	146.3585162	0.4419 35369	- 1.17809	0.0204 73801	0.2623 69556	Dow n

					2697			
TUBD1	163.55 44423	85.80266088	241.3062236	2.8123 39631	1.49177 0831	0.0079 01603	0.1458 36369	Up
TWIST1	356.35 41153	533.3011431	179.4070875	0.3364 08594	- 1.57171 3535	0.0192 18809	0.2520 32404	Down
TXK	84.279 83936	38.93204549	129.6276332	3.3295 87017	1.73534 3245	0.0075 52873	0.1435 49614	Up
TYR	4.4552 8348	0.353962327	8.556604634	24.173 77211	4.59537 0706	0.0424 88969	0.3931 014	Up
UBALD2	935.82 54181	586.1079274	1285.542909	2.1933 55266	1.13313 9509	0.0364 80558	0.3626 36342	Up
UGGT2	280.01 74111	499.0432683	60.99155385	0.1222 16965	- 3.03248 353	1.98E- 06	0.0005 48355	Down
UMODL1	18.772 46709	37.03414052	0.510793663	0.0137 92508	- 6.17997 1418	3.81E- 05	0.0043 46368	Down
UNC5C	103.31 00477	154.052504	52.56759144	0.3412 31658	- 1.551176 593	0.0121 73005	0.1945 84125	Down
USP43	213.02 88912	88.6172115	337.440571	3.8078 44608	1.92897 4606	0.0008 91818	0.0379 1386	Up
UST	474.09 53323	733.5087523	214.6819122	0.2926 78051	- 1.77261 3537	0.0140 10259	0.2108 08596	Down
UTP20	750.94 96565	491.6918766	1010.207436	2.0545 53846	1.03882 5142	0.0416 17644	0.3869 75227	Up
VASN	1076.3 82501	1475.35314	677.4118627	0.4591 52351	- 1.12295 5162	0.0262 61336	0.3002 27342	Down
VAV3	806.20 74036	384.5024201	1227.912387	3.1935 10165	1.67514 3043	0.0051 2546	0.1149 66266	Up
VCAN	7334.3 51524	12372.85654	2295.84651	0.1855 5509	- 2.43008 0517	0.0065 10851	0.1314 08124	Down
VCL	12840. 17508	18985.03033	6695.319824	0.3526 63109	- 1.50363 7426	0.0204 22089	0.2623 69556	Down
VCPKMT	256.83 27968	158.9991884	354.6664052	2.2306 17707	1.15744 328	0.0237 93281	0.2848 68462	Up
VGLL1	11.990 13063	2.689142055	21.2911192	7.9174 39379	2.98503 3916	0.0379 78522	0.3704 26665	Up
VGLL3	3012.1	5326.866773	697.460388	0.1309	-	0.0069	0.1359	Down

	63581			32576	2.93310 4012	1603	2456	n
VIM	47138. 04797	71097.51572	23178.58022	0.3260 11113	- 1.61700 6952	0.0006 13613	0.0301 49166	Dow n
VIPR2	122.80 73064	204.5160188	41.09859408	0.2009 55379	- 2.31505 29	0.0094 09552	0.1631 74521	Dow n
VKORC1	890.76 55872	1279.122228	502.4089462	0.3927 76339	- 1.34822 007	0.0054 24846	0.1175 36162	Dow n
VNN1	517.27 17827	160.5475144	873.9960509	5.4438 46666	2.44462 6432	0.0414 54773	0.3862 50226	Up
VSNL1	92.294 5798	32.26608763	152.323072	4.7208 41081	2.23904 3918	0.0003 54701	0.0202 49495	Up
VSTM4	640.76 19498	1063.401948	218.1219519	0.2051 17127	- 2.28548 0138	0.0077 02384	0.1443 34849	Dow n
VWA5B2	15.737 2583	27.95596326	3.518553349	0.1258 60566	- 2.99010 1763	0.0052 7545	0.1166 89318	Dow n
VWA7	95.365 77173	33.34518068	157.3863628	4.7199 1333	2.23876 0368	0.0008 55441	0.0373 33774	Up
WARS	11588. 48219	6342.368825	16834.59555	2.6543 07249	1.40833 5379	0.0047 15758	0.1099 91532	Up
WASF3	554.51 00364	776.9253766	332.0946962	0.4274 47354	- 1.22618 1353	0.0117 94162	0.1910 76043	Dow n
WBP5	91.622 82858	163.1654853	20.08017187	0.1230 66296	- 3.02249 2391	3.91E- 06	0.0008 63637	Dow n
WDR17	260.48 16691	388.588649	132.3746892	0.3406 55059	- 1.55361 6462	0.0103 85626	0.1756 95878	Dow n
WFDC1	1423.4 92838	2448.830991	398.1546853	0.1625 89696	- 2.62069 2268	0.0198 3976	0.2579 7426	Dow n
WFDC18	151.72 65501	9.437282475	294.0158177	31.154 71201	4.96137 8476	0.0039 85514	0.0998 09354	Up
WFDC2	307.32 78765	24.53005231	590.1257008	24.057 25407	4.58840 0075	0.0009 403	0.0389 61794	Up
WFIKKN 2	90.156 22735	174.2541533	6.058301353	0.0347 67041	- 4.84613 589	0.0005 35659	0.0272 72595	Dow n

WIPF1	1444.1 98976	2002.48179	885.9161615	0.4424 09098	- 1.17654 7042	0.0308 20823	0.3288 61594	Down
WISP2	1266.9 13991	2148.373373	385.4546081	0.1794 16955	- 2.478611 866	0.0149 21699	0.2196 3364	Down
WISP3	32.800 32285	7.5258175	58.0748282	7.7167 46812	2.94799 2771	0.0013 48275	0.0492 60724	Up
WNT10A	102.81 70977	21.18293354	184.4512618	8.7075 40978	3.12226 5357	0.0168 73058	0.2356 37319	Up
WNT10B	17.061 31632	28.17355543	5.949077218	0.2111 58199	- 2.24360 383	0.0291 68238	0.3185 88632	Down
WNT2	56.706 29014	105.9074619	7.505118381	0.0708 64869	- 3.81878 5602	8.73E- 07	0.0002 90872	Down
WNT2B	25.184 32126	44.05267515	6.315967367	0.1433 73072	- 2.80215 4009	0.0012 52022	0.0468 96152	Down
WNT4	246.04 93135	152.53932	339.5593069	2.2260 44452	1.15448 2402	0.0481 43467	0.4204 12522	Up
WNT5B	159.39 87043	51.29866271	267.4987459	5.2145 36438	2.38253 9006	5.30E- 05	0.0055 46252	Up
WNT9A	87.691 16501	123.6604175	51.72191249	0.4182 57625	- 1.25753 6255	0.0194 28922	0.2531 8274	Down
WTIP	452.67 90396	621.4195428	283.9385364	0.4569 19226	- 1.12998 8947	0.0227 6276	0.2777 08764	Down
WWC1	1556.4 53622	520.3514699	2592.555773	4.9823 16614	2.31681 6704	0.0071 68515	0.1387 63631	Up
XAF1	268.19 14456	138.1285751	398.254316	2.8832 14538	1.52767 8191	0.0189 56276	0.2505 90744	Up
XG	1595.0 57673	2471.325276	718.7900711	0.2908 5207	- 1.78164 2525	0.0004 10108	0.0224 16334	Down
XKR5	21.111 33955	34.60355614	7.619122968	0.2201 83236	- 2.18322 3463	0.0070 95818	0.1379 5692	Down
XYLT1	983.85 4517	1554.682346	413.0266883	0.2656 66288	- 1.91231 2926	5.94E- 05	0.0060 31493	Down
YDJC	44.001 29597	19.70747315	68.29511879	3.4654 42691	1.79303 9661	0.0121 23498	0.1940 87136	Up

ZAP70	727.64 84686	384.9289931	1070.367944	2.7806 8933	1.47544 257	0.0051 15481	0.1149 66266	Up
ZBED3	130.41 72135	208.9378589	51.89656801	0.2483 82788	- 2.00936 2889	0.0211 14755	0.2672 10868	Down
ZBTB42	459.08 82436	224.7002693	693.4762179	3.0862 278	1.62584 4554	0.0034 13339	0.0904 00692	Up
ZBTB47	1683.8 05645	2268.460442	1099.150848	0.4845 36044	- 1.04532 4106	0.0161 13706	0.2286 65812	Down
ZC3H12A	1155.1 74882	425.5067933	1884.842971	4.4296 42489	2.14719 0265	0.0207 77679	0.2646 21109	Up
ZCCHC24	1347.6 51604	1891.71397	803.5892388	0.4247 94261	- 1.23516 3818	0.0048 16426	0.1108 4871	Down
ZDBF2	14.878 00112	26.4430141	3.312988133	0.1252 87841	- 2.99668 1691	0.0366 47348	0.3637 02678	Down
ZDHHC2	951.26 32756	1490.658256	411.8682951	0.2762 9961	- 1.85569 4568	0.0100 28663	0.1715 68276	Down
ZEB1	1134.1 48521	1674.984239	593.3128031	0.3542 19932	- 1.49728 27	0.0270 87348	0.3058 98299	Down
ZEB2	157.00 49427	237.38844	76.62144528	0.3227 68224	- 1.63142 9538	0.0111 05926	0.1839 02267	Down
ZFHX3	665.08 97105	894.2061091	435.9733118	0.4875 53493	- 1.03636 7579	0.0247 24116	0.2892 73763	Down
ZFHX4	368.41 21544	650.3612143	86.46309448	0.1329 46265	- 2.911084 846	0.0140 82592	0.2113 91694	Down
ZFP36	2918.4 47209	4648.82515	1188.069268	0.2555 63337	- 1.96824 7213	0.0385 94986	0.3737 49934	Down
ZFPM2	253.29 06502	442.0672234	64.51407699	0.1459 37255	- 2.77657 9875	0.0002 29745	0.0152 61155	Down
ZFYVE19	205.01 64204	106.3734414	303.6593995	2.8546 54278	1.51331 6034	0.0049 81903	0.1128 4649	Up
ZIC2	8.2176 79208	15.16554494	1.26981348	0.0837 30158	- 3.57810 8835	0.0208 24726	0.2648 11184	Down

ZMAT4	19.695 6308	1.722292782	37.66896882	21.871 40841	4.45097 422	0.0122 52774	0.1954 38959	Up
ZNF219	855.30 82029	1278.345532	432.2708743	0.3381 48696	- 1.56427 0305	0.0078 09668	0.1453 84333	Down
ZNF275	609.69 65424	824.6937488	394.699336	0.4786 01101	- 1.06310 438	0.0239 7419	0.2857 04348	Down
ZNF367	164.69 01575	234.6884518	94.69186324	0.4034 79006	- 1.30943 4486	0.0216 2232	0.2692 75749	Down
ZNF385A	355.85 71116	541.9386028	169.7756205	0.3132 7464	- 1.67450 011	0.0033 54703	0.0895 06851	Down
ZNF385B	9.6321 17678	17.56429068	1.699944677	0.0967 84135	- 3.36908 5615	0.0298 14362	0.3225 94267	Down
ZNF385D	193.88 90667	367.2312871	20.54684629	0.0559 50697	- 4.15970 0099	0.0002 47601	0.0159 02182	Down
ZNF423	455.67 11683	652.9549076	258.3874289	0.3957 20173	- 1.33744 7483	0.0048 59694	0.1114 69242	Down
ZNF469	300.56 50334	432.7447872	168.3852796	0.3891 09897	- 1.36175 0419	0.0224 89286	0.2754 93751	Down
ZNF521	809.57 32101	1103.364751	515.7816687	0.4674 62521	- 1.09707 7393	0.0170 94377	0.2370 14792	Down
ZNF536	5.2814 37885	10.56287577	0	0	#NAME ?	0.0259 66633	0.2979 9487	Down
ZNF683	45.331 092	20.27965028	70.38253373	3.4705 98987	1.79518 4678	0.0112 78053	0.1856 64565	Up
ZP2	15.461 89672	25.76695713	5.156836324	0.2001 33694	- 2.32096 4016	0.0378 66705	0.3702 86549	Down
ZSCAN10	54.305 43715	6.604058001	102.0068163	15.446 08122	3.94916 8958	0.0115 98775	0.1889 31861	Up
ZSWIM4	557.31 78427	361.498906	753.1367794	2.0833 72223	1.05892 062	0.0297 08171	0.3218 40544	Up
ZYX	9535.7 60783	13935.99056	5135.531007	0.3685 08502	- 1.44023 019	0.0355 50738	0.3573 55461	Down

Table S6

id	baseMean	baseMean_control_Sample_non-lactation	baseMean_case_Sample_late-lactation	foldChange	log2FoldChange	pval	padj	up_down
AAED1	678.0203377	929.8184919	426.2221835	0.458392888	-1.125343435	0.001985	0.022165	Down
ABAT	238.0349038	103.9602124	372.1095952	3.579346239	1.839696106	6.53E-06	0.000208	Up
ABCA10	448.0740793	728.3161154	167.8320433	0.230438459	-2.11754658	2.07E-06	7.60E-05	Down
ABCA2	2236.382412	1488.637046	2984.127779	2.004604002	1.003317268	0.003603	0.034761	Up
ABCA6	995.9763732	1602.652324	389.3004227	0.242910092	-2.041505668	0.000116	0.00232	Down
ABCA9	670.977833	1025.401083	316.5545826	0.308712939	-1.695662141	0.002146	0.023564	Down
ABCB11	21.40318608	2.394861652	40.4115105	16.8742568	4.076752057	0.000716	0.010152	Up
ABCC1	794.6971641	1074.809525	514.5848036	0.478768369	-1.062600253	0.00327	0.032457	Down
ABCC11	422.3005789	16.74703672	827.8541211	49.43287192	5.627398821	0.000499	0.007709	Up
ABCC8	55.87705419	17.5390706	94.21503779	5.371723506	2.425385048	3.63E-05	0.000897	Up
ABCC9	1058.115303	1783.393394	332.8372122	0.186631404	-2.421736333	4.60E-07	2.04E-05	Down
ABHD1	214.1668368	106.6379264	321.6957473	3.016710455	1.592976233	8.75E-05	0.001872	Up
ABHD12	3665.249899	2336.31848	4994.181318	2.13762865	1.096011249	0.001279	0.016002	Up
ABI3BP	4372.58286	7455.459436	1289.706284	0.17298817	-2.531254714	7.36E-05	0.001622	Down
ABL2	148.1527517	219.8571547	76.44834881	0.347718267	-1.524009235	0.000501	0.007717	Down
ABLIM1	5269.7	7363.763365	3175.710076	0.4312	-	0.00	0.00	Down

	3672			61832	1.213364 058	0378	6175	n
ABLIM3	1131.6 48208	1589.59177	673.7046457	0.4238 22429	- 1.238468 155	0.04 0987	0.19 8559	Dow n
ABTB2	228.75 81676	138.258651	319.2576842	2.3091 33511	1.207351 59	0.00 2595	0.02 7239	Up
ACAP2	91.508 8023	130.1348461	52.88275849	0.4063 68932	- 1.299137 985	0.00 8124	0.06 379	Dow n
ACE	553.52 45721	743.7248734	363.3242708	0.4885 19725	- 1.033511 279	0.03 1928	0.16 8505	Dow n
ACER2	284.10 3215	453.2202202	114.9862097	0.2537 09355	- 1.978751 378	0.00 2637	0.02 7529	Dow n
ACHE	46.913 2111	12.16008923	81.66633296	6.7159 32046	2.747587 633	1.76 E-05	0.00 048	Up
ACKR1	952.85 2641	1597.652896	308.0523859	0.1928 1559	- 2.374706 389	0.00 1685	0.01 9606	Dow n
ACKR2	133.94 01624	219.0500166	48.83030813	0.2229 18532	- 2.165411 537	0.00 0289	0.00 4925	Dow n
ACKR3	2706.5 57136	4945.219587	467.8946845	0.0946 15553	- 3.401778 839	3.92 E-07	1.76 E-05	Dow n
ACKR4	366.29 89069	694.0741892	38.52362461	0.0555 03612	- 4.171274 525	0.00 0211	0.00 3866	Dow n
ACOX3	1383.1 32279	813.3950841	1952.869474	2.4008 86743	1.263567 349	0.00 0286	0.00 4885	Up
ACP5	2402.1 40834	658.0995764	4146.182091	6.3002 35162	2.655405 679	0.00 1181	0.01 5031	Up
ACSBG1	91.008 34862	130.4811982	51.53549908	0.3949 64944	- 1.340203 487	0.00 6141	0.05 1732	Dow n
ACSL4	2472.2 21453	3649.396772	1295.046135	0.3548 65808	- 1.494654 52	2.02 E-05	0.00 0546	Dow n
ACSM1	572.78 78374	1085.875717	59.69995802	0.0549 78629	- 4.184985 263	0.02 0766	0.12 5002	Dow n
ACSM3	268.49	23.71088048	513.271415	21.647	4.436100	1.37	1.70	Up

	11477			08372	774	E-11	E-09	
ACSM5	100.64 80158	47.89723304	153.3987985	3.2026 65139	1.679272 962	0.00 5725	0.04 9123	Up
ACTA2	85351. 24816	149350.1794	21352.31695	0.1429 68137	- 2.806234 44	0.02 6315	0.14 7454	Down
ACTG2	90956. 5339	177220.2254	4692.842393	0.0264 80287	- 5.238937 443	0.00 7558	0.06 0579	Down
ACTL8	13.188 82003	4.450996681	21.92664337	4.9262 32245	2.300484 645	0.03 1397	0.16 6475	Up
ACVR1B	1059.5 52743	688.1594091	1430.946077	2.0793 81692	1.056154 604	0.00 2949	0.03 0093	Up
ACVRL1	2027.3 81404	2716.328203	1338.434606	0.4927 36704	- 1.021111 152	0.00 2904	0.02 97	Down
ACY1	675.21 30217	362.4143287	988.0117147	2.7261 93852	1.446888 152	7.47 E-05	0.00 1639	Up
ADAM19	1841.5 30187	3050.575743	632.4846312	0.2073 32872	- 2.269979 223	0.00 0444	0.00 7046	Down
ADAM23	55.683 58374	89.18679988	22.18036759	0.2486 95632	- 2.007546 924	0.00 302	0.03 0671	Down
ADAM33	4004.2 20776	6365.683	1642.758552	0.2580 64775	- 1.954194 863	0.00 8985	0.06 8777	Down
ADAMTS1	4188.5 46479	7444.57522	932.5177368	0.1252 61376	- 2.996986 461	0.02 9524	0.15 9589	Down
ADAMTS12	347.66 11801	650.579017	44.74334324	0.0687 74649	- 3.861979 328	2.63 E-12	3.53 E-10	Down
ADAMTS14	91.151 29764	149.3804708	32.92212453	0.2203 91088	- 2.181862 206	1.21 E-05	0.00 035	Down
ADAMTS15	369.65 27981	596.7830841	142.5225121	0.2388 17949	- 2.066016 825	7.54 E-06	0.00 0233	Down
ADAMTS16	571.91 41414	1138.869403	4.958879995	0.0043 54213	- 7.843372 291	0.00 3636	0.03 4987	Down
ADAMTS17	1091.3 78647	1928.973611	253.7836827	0.1315 64103	- 2.926162	0.02 0632	0.12 4361	Down

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ADAMTS18	168.81 472	67.74959585	269.8798442	3.9834 90097	1.994032 989	0.02 184	0.12 9595	Up
ADAMTS2	6225.5 34648	11415.46792	1035.60138	0.0907 19135	- 3.462449 299	0.00 2274	0.02 4629	Down
ADAMTS3	115.46 74007	177.8458129	53.08898847	0.2985 11321	- 1.744142 45	0.00 0143	0.00 2772	Down
ADAMTS4	682.15 23611	1206.490133	157.8145894	0.1308 04708	- 2.934513 628	3.34 E-07	1.52 E-05	Down
ADAMTS5	386.71 61593	691.5158731	81.91644551	0.1184 59241	- 3.077537 347	1.68 E-14	3.35 E-12	Down
ADAMTS6	293.01 58529	456.892196	129.1395099	0.2826 4766	- 1.822923 344	0.00 3638	0.03 4987	Down
ADAMTSL 1	378.15 60674	716.987523	39.32461187	0.0548 46996	- 4.188443 582	0.00 5062	0.04 5046	Down
ADAMTSL 2	617.23 0884	902.4614572	332.0003107	0.3678 83091	- 1.442680 726	0.02 3238	0.13 5357	Down
ADAMTSL 5	2146.8 55648	2995.401743	1298.309554	0.4334 34199	- 1.206115 106	0.00 9185	0.06 9537	Down
ADARB1	1396.7 71783	2179.771923	613.7716426	0.2815 76084	- 1.828403 292	6.88 E-05	0.00 1534	Down
ADCY4	962.77 38397	1289.261943	636.2857369	0.4935 27123	- 1.018798 722	0.00 3078	0.03 1064	Down
ADCY5	554.53 52597	964.6524972	144.4180223	0.1497 09893	- 2.739758 534	0.00 5137	0.04 5495	Down
ADIG	46.929 00422	93.32655942	0.531449026	0.0056 9451	- 7.456212 577	0.00 1185	0.01 5051	Down
ADIPOQ	2939.7 39651	5765.10976	114.3695412	0.0198 38224	- 5.655573 284	0.00 0933	0.01 2555	Down
ADIPOR2	1615.1 09778	2197.493348	1032.726209	0.4699 56466	- 1.089400	0.04 3897	0.20 8462	Down

					973			
ADM	7072.8 19185	13675.09457	470.5437984	0.0344 08815	- 4.861077 984	0.01 2618	0.08 72	Dow n
ADORA2A	92.219 81814	58.00489345	126.4347428	2.1797 25456	1.124146 434	0.01 8875	0.11 6833	Up
ADORA3	71.429 4605	36.83355489	106.0253661	2.8784 99413	1.525316 918	0.00 3326	0.03 2804	Up
ADRA1B	38.777 79958	65.21775456	12.33784461	0.1891 7923	- 2.402174 389	0.03 6659	0.18 5025	Dow n
ADRA2A	134.68 11883	201.6537859	67.70859068	0.3357 66524	- 1.574469 696	0.00 0347	0.00 5772	Dow n
ADRA2B	100.90 08668	141.3257244	60.47600915	0.4279 19329	- 1.224589 249	0.01 2228	0.08 5189	Dow n
ADRB1	49.649 63199	84.97898147	14.3202825	0.1685 15582	- 2.569046 098	0.04 0778	0.19 8052	Dow n
AEBP1	28460. 52309	40844.69134	16076.35483	0.3935 97168	- 1.345208 255	0.00 8042	0.06 3323	Dow n
AFAP1L1	291.43 66954	391.0474785	191.8259123	0.4905 4379	- 1.027546 165	0.00 6591	0.05 4426	Dow n
AGBL5	269.63 50494	163.7553542	375.5147446	2.2931 44834	1.197327 478	0.00 2695	0.02 8008	Up
AGMO	114.66 66935	199.2689337	30.06445326	0.1508 7376	- 2.728586 182	1.17 E-08	7.77 E-07	Dow n
AGO2	252.48 09615	381.5343346	123.4275884	0.3235 03227	- 1.628147 992	5.21 E-05	0.00 1211	Dow n
AGO3	60.899 7816	84.72138936	37.07817385	0.4376 48322	- 1.192156 057	0.03 5073	0.18 0254	Dow n
AGRN	6164.5 58299	2612.611895	9716.504704	3.7190 7696	1.894944 602	7.27 E-08	3.85 E-06	Up
AGTR1	876.96 12837	1556.257292	197.6652751	0.1270 13236	- 2.976949 245	0.00 3372	0.03 313	Dow n
AHSG	12.778 81486	2.372851528	23.1847782	9.7708 50776	3.288484 187	0.00 4593	0.04 1731	Up

AIDA	301.20 96143	424.8608875	177.5583411	0.4179 21127	- 1.258697 401	0.00 1275	0.01 596	Dow n
AIF1	375.43 00475	226.1202048	524.7398901	2.3206 23628	1.214512 557	0.00 1136	0.01 4612	Up
AIF1L	1593.0 97086	2209.751792	976.44238	0.4418 78759	- 1.178277 511	0.00 0613	0.00 8971	Dow n
AIFM3	46.499 48093	11.94889334	81.05006852	6.7830 60677	2.761936 398	1.35 E-05	0.00 0381	Up
AIM1L	191.10 09027	43.888204	338.3136014	7.7085 31465	2.946456 042	3.84 E-11	4.33 E-09	Up
AK1	477.28 42895	760.1549852	194.4135938	0.2557 55205	- 1.967164 496	0.00 1297	0.01 6158	Dow n
AK4	656.52 56277	1021.819771	291.2314849	0.2850 12576	- 1.810902 517	1.48 E-05	0.00 0411	Dow n
AK7	50.808 8358	30.95581142	70.66186019	2.2826 68647	1.190721 453	0.03 504	0.18 0163	Up
AKAP12	3041.2 06286	5371.086321	711.3262511	0.1324 36198	- 2.916630 596	1.92 E-05	0.00 0518	Dow n
AKAP2	5131.2 22681	7411.865822	2850.579541	0.3845 96755	- 1.378581 506	0.00 2166	0.02 3757	Dow n
AKAP8L	3492.6 80907	2205.905566	4779.456247	2.1666 64031	1.115475 462	0.00 1026	0.01 3512	Up
AKT3	2220.3 3661	3011.74556	1428.927659	0.4744 51653	- 1.075667 013	0.00 1998	0.02 2252	Dow n
ALCAM	2318.1 37207	1372.344272	3263.930143	2.3783 61035	1.249967 732	0.00 0333	0.00 5575	Up
ALDH18A1	1517.6 75415	2064.111476	971.2393526	0.4705 36288	- 1.087622 106	0.00 1577	0.01 8732	Dow n
ALDH1A2	8.3202 27389	15.05793362	1.58252116	0.1050 95506	- 3.250227 109	0.01 7785	0.11 2033	Dow n
ALDH1L1	22.313 20407	44.37629559	0.250112546	0.0056 36175	- 7.471068 003	0.04 5611	0.21 4524	Dow n
ALDH1L2	581.49 67532	1072.388111	90.60539584	0.0844 8937	- 3.565086	5.37 E-09	3.96 E-07	Dow n

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ALDH2	5163.9 57346	3415.483357	6912.431336	2.0238 51565	1.017103 482	0.00 3341	0.03 2898	Up
ALDOA	12965. 28324	17918.63847	8011.928017	0.4471 2817	- 1.161239 655	0.00 0625	0.00 9111	Down
ALOX12E	180.93 04606	17.0017676	344.8591536	20.283 72353	4.342250 611	1.10 E-18	4.33 E-16	Up
ALOX15B	1493.1 85848	174.6972152	2811.67448	16.094 5581	4.008501 061	1.12 E-18	4.33 E-16	Up
ALOX5	162.25 10537	95.32085555	229.1812518	2.4043 13836	1.265625 224	0.00 283	0.02 913	Up
ALOX5AP	100.81 76953	54.4664759	147.1689147	2.7020 09121	1.434032 545	0.00 2511	0.02 6536	Up
ALPK2	18.797 64317	31.33190338	6.263382951	0.1999 04324	- 2.322618 42	0.01 6444	0.10 5792	Down
ALPK3	1399.3 42797	2374.785787	423.8998062	0.1785 00229	- 2.486002 172	0.01 1687	0.08 2496	Down
ALS2CR11	9.0907 97506	1.197430826	16.98416419	14.183 83745	3.826176 002	0.00 7659	0.06 1113	Up
AMIGO3	1039.1 06646	1422.64446	655.5688321	0.4608 10027	- 1.117755 985	0.01 3584	0.09 2399	Down
AMOTL2	2909.6 78116	4416.461529	1402.894703	0.3176 5129	- 1.654484 216	0.03 3684	0.17 4754	Down
ANG	1129.2 25818	1560.697362	697.7542738	0.4470 78525	- 1.161399 847	0.00 0965	0.01 2886	Down
ANGPT2	1443.2 62291	2372.166962	514.3576209	0.2168 30278	- 2.205361 87	9.53 E-10	8.61 E-08	Down
ANGPT4	322.77 63758	477.9661661	167.5865855	0.3506 24369	- 1.512001 824	0.00 2559	0.02 6933	Down
ANGPTL2	4467.0 97771	6832.533165	2101.662376	0.3075 96367	- 1.700889 633	0.01 6806	0.10 736	Down
ANGPTL5	525.42 93648	1033.719088	17.13964171	0.0165 8056	- 5.914363 426	0.00 8547	0.06 6028	Down
ANK2	1934.4	3276.176647	592.7464854	0.1809	-	0.00	0.00	Down

	61566			2629	2.466526 039	028	4816	n
ANKRD1	153.38 20641	298.6144924	8.149635811	0.0272 91495	- 5.195404 784	0.02 324	0.13 5357	Dow n
ANKRD32	277.50 44442	175.2046405	379.8042479	2.1677 75048	1.116215 055	0.00 4315	0.03 9807	Up
ANKRD33	28.463 24974	45.33805696	11.58844251	0.2556 00775	- 1.968035 882	0.03 3775	0.17 5094	Dow n
ANKRD33B	101.02 50789	29.66872963	172.3814281	5.8102 05907	2.538589 292	5.78 E-05	0.00 1328	Up
ANKRD35	21.827 72681	32.79701519	10.85843844	0.3310 80081	- 1.594747 88	0.04 2131	0.20 2405	Dow n
ANKRD50	1184.9 06754	1712.425414	657.388093	0.3838 92979	- 1.381223 921	0.00 739	0.05 9441	Dow n
ANKRD63	12.190 72358	4.178300429	20.20314673	4.8352 54687	2.273591 883	0.03 637	0.18 403	Up
ANKRD65	33.813 99791	16.1700888	51.45790702	3.1822 897	1.670065 177	0.01 5413	0.10 0836	Up
ANKRD9	39.060 47558	60.6826366	17.43831455	0.2873 69098	- 1.799023 163	0.00 4102	0.03 8111	Dow n
ANKS6	291.84 94753	396.0805099	187.6184407	0.4736 87637	- 1.077992 077	0.03 5881	0.18 2351	Dow n
ANLN	372.73 12856	630.5475076	114.9150637	0.1822 4648	- 2.456037 146	0.04 1795	0.20 127	Dow n
ANO6	3238.4 88449	4561.622622	1915.354276	0.4198 84422	- 1.251935 832	0.00 1474	0.01 7851	Dow n
ANO9	1014.6 73098	385.2165864	1644.129609	4.2680 65465	2.093582 305	1.28 E-08	8.26 E-07	Up
ANTXR2	2368.2 52499	3857.255341	879.249657	0.2279 46967	- 2.133229 88	0.00 9929	0.07 3455	Dow n
ANXA6	4623.5 17908	6266.273494	2980.762321	0.4756 83406	- 1.071926 395	0.00 1937	0.02 1745	Dow n
ANXA9	9.1837 27952	2.372851528	15.99460438	6.7406 68004	2.752891 57	0.03 8102	0.18 9157	Up

AOC3	6226.2 77623	9323.259121	3129.296125	0.3356 44015	- 1.574996 177	0.00 0289	0.00 4924	Dow n
AOX1	8093.9 20827	13791.5226	2396.319054	0.1737 53045	- 2.524889 83	0.00 0157	0.00 3016	Dow n
AP1M2	928.47 99684	516.9825515	1339.977385	2.5919 19943	1.374021 158	0.04 8431	0.22 4075	Up
AP1S2	985.44 8864	1426.177674	544.7200542	0.3819 44034	- 1.388566 838	0.00 9112	0.06 9303	Dow n
AP1S3	152.60 27175	92.55622628	212.6492087	2.2975 13817	1.200073 538	0.00 6446	0.05 3556	Up
AP3M2	161.12 98521	92.28209543	229.9776089	2.4921 15158	1.317370 735	0.00 2286	0.02 4735	Up
APBA1	502.69 75947	766.1962733	239.1989161	0.3121 90133	- 1.679503 157	0.00 1612	0.01 8976	Dow n
APCDD1	1261.9 35985	780.4409679	1743.431003	2.2339 05029	1.159567 853	0.00 1319	0.01 6406	Up
APCDD1L	3.0028 79726	6.005759453	0	0	#NAME?	0.04 5344	0.21 3602	Dow n
APOBEC3B	155.16 64977	98.03163906	212.3013564	2.1656 412	1.114794 239	0.00 8486	0.06 5785	Up
APOE	22672. 91719	13676.13847	31669.6959	2.3156 89913	1.211442 079	0.00 0442	0.00 703	Up
APOL3	770.97 81974	394.5285448	1147.42785	2.9083 51918	1.540201 85	2.22 E-05	0.00 059	Up
APOLD1	1235.4 1886	2202.72158	268.1161398	0.1217 20395	- 3.038357 179	4.11 E-16	1.11 E-13	Dow n
AQP7	192.30 88299	377.1043563	7.513303537	0.0199 23672	- 5.649372 618	2.45 E-28	4.94 E-25	Dow n
AQPEP	493.95 23998	797.731559	190.1732407	0.2383 92525	- 2.068589 095	0.03 6673	0.18 5045	Dow n
ARAP2	559.90 75545	350.4437638	769.3713453	2.1954 20278	1.134497 147	0.00 372	0.03 5606	Up
AREG	129.82 0053	10.30657533	249.3335307	24.191 69537	4.596439 973	7.25 E-18	2.44 E-15	Up
ARF4	2844.9 63826	4086.383465	1603.544188	0.3924 11579	- 1.349560 483	9.86 E-05	0.00 2057	Dow n

ARFGAP3	2126.6 5967	2949.048368	1304.270972	0.4422 68423	- 1.177005 853	0.00 0644	0.00 9325	Dow n
ARHGAP19	824.71 21769	511.3567802	1138.067574	2.2255 84206	1.154184 087	0.00 1332	0.01 6529	Up
ARHGAP21	2242.3 19284	3051.464367	1433.174202	0.4696 67684	- 1.090287 765	0.00 1604	0.01 8919	Dow n
ARHGAP28	1469.8 65317	2254.840754	684.8898808	0.3037 42018	- 1.719081 598	0.01 128	0.08 0434	Dow n
ARHGAP30	760.03 08917	492.6078689	1027.453914	2.0857 44015	1.060562 106	0.00 6108	0.05 1507	Up
ARHGAP36	39.329 51809	78.65903617	0	0	#NAME?	0.03 296	0.17 2201	Dow n
ARHGAP39	517.08 86563	336.6999586	697.477354	2.0715 10068	1.050682 832	0.00 4609	0.04 1862	Up
ARHGAP42	1444.0 85378	810.038248	2078.132508	2.5654 74547	1.359225 712	0.00 2781	0.02 8736	Up
ARHGAP44	161.37 74016	227.9930647	94.76173856	0.4156 34303	- 1.266613 367	0.01 8258	0.11 4195	Dow n
ARHGAP6	332.53 1826	523.6497639	141.4138881	0.2700 54334	- 1.888678 395	0.02 4975	0.14 2215	Dow n
ARHGAP9	200.90 32746	109.9255111	291.881038	2.6552 62052	1.408854 25	0.00 0707	0.01 0072	Up
ARHGEF15	844.03 85855	1190.842734	497.2344369	0.4175 48365	- 1.259984 778	0.00 0355	0.00 5862	Dow n
ARHGEF16	1617.4 73107	740.1846872	2494.761526	3.3704 5817	1.752944 72	0.00 1106	0.01 431	Up
ARHGEF19	744.48 25351	266.6421733	1222.322897	4.5841 31917	2.196648 561	5.22 E-09	3.86 E-07	Up
ARHGEF25	2196.9 24921	3027.616745	1366.233098	0.4512 5695	- 1.147978 944	0.03 3196	0.17 3135	Dow n
ARHGEF26	620.01 06019	859.5398441	380.4813596	0.4426 57036	- 1.175738 742	0.00 1066	0.01 3907	Dow n
ARHGEF28	1310.3 11395	423.1959397	2197.426851	5.1924 57311	2.376417 45	6.86 E-11	7.28 E-09	Up
ARHGEF39	438.56 62732	276.687179	600.4453674	2.1701 23566	1.117777 191	0.00 3395	0.03 3302	Up

ARHGEF4	131.56 07528	72.51080882	190.6106968	2.6287 21151	1.394361 112	0.00 2139	0.02 3534	Up
ARHGEF5	911.71 16527	534.0026239	1289.420681	2.4146 33606	1.271804 293	0.01 4181	0.09 5404	Up
ARL15	287.85 13534	408.0572021	167.6455047	0.4108 38245	- 1.283357 607	0.00 089	0.01 2057	Down
ARMC4	46.746 34753	78.04800218	15.44469288	0.1978 87101	- 2.337250 521	0.01 5504	0.10 1212	Down
ARSE	1389.6 67791	346.7270652	2432.608518	7.0159 17596	2.810631 803	3.45 E-14	6.45 E-12	Up
ARSJ	361.53 03664	624.3544242	98.70630847	0.1580 93392	- 2.661151 032	0.02 2551	0.13 2542	Down
ASAP1	915.98 85551	1236.453254	595.5238561	0.4816 38796	- 1.053976 49	0.00 3119	0.03 1428	Down
ASB1	99.140 04948	140.0365098	58.24358921	0.4159 17173	- 1.265631 842	0.00 7761	0.06 1667	Down
ASIC2	14.787 32733	23.76119591	5.813458737	0.2446 61875	- 2.031138 789	0.02 8715	0.15 6504	Down
ASIC3	1012.0 29898	41.21013028	1982.849665	48.115 58837	5.588432 465	3.39 E-38	3.08 E-34	Up
ASPH	2651.8 17686	3661.21334	1642.422031	0.4486 00472	- 1.156496 958	0.00 0856	0.01 1709	Down
ASPHD2	251.77 79372	400.6377052	102.9181691	0.2568 85879	- 1.960800 507	0.00 0809	0.01 1251	Down
ASPN	8856.5 23936	15986.04142	1727.006452	0.1080 32152	- 3.210467 355	0.00 4993	0.04 4593	Down
ASRGL1	738.54 26401	480.5216025	996.5636777	2.0739 20657	1.052360 702	0.00 314	0.03 1546	Up
ASTN1	37.388 4078	74.50730504	0.269510562	0.0036 17237	- 8.110896 26	0.00 4943	0.04 4255	Down
ASTN2	30.684 64223	13.82830742	47.54097704	3.4379 46206	1.781546 971	0.01 2448	0.08 6328	Up
ATF5	1066.8 96529	1508.080954	625.7121035	0.4149 06177	- 1.269142	0.00 0296	0.00 5031	Down

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ATG4A	230.86 41881	350.0002662	111.7281101	0.3192 22929	- 1.647363 815	5.23 E-05	0.00 1214	Dow n
ATG9B	320.99 29259	95.13674337	546.8491085	5.7480 32665	2.523068 26	6.10 E-10	5.53 E-08	Up
ATL3	1823.2 91278	2471.996958	1174.585597	0.4751 56571	- 1.073525 115	0.00 2137	0.02 3532	Dow n
ATP10A	359.33 28813	566.9431295	151.7226332	0.2676 1526	- 1.901767 709	0.00 2167	0.02 376	Dow n
ATP10B	34.436 48671	4.006109502	64.86686392	16.191 98474	4.017207 93	2.92 E-07	1.34 E-05	Up
ATP13A3	3507.7 0847	5559.025965	1456.390975	0.2619 86719	- 1.932434 415	3.24 E-05	0.00 081	Dow n
ATP2A2	3486.3 42324	4652.210298	2320.474351	0.4987 89651	- 1.003496 563	0.00 3852	0.03 6387	Dow n
ATP2B2	43.441 95515	24.83498608	62.04892422	2.4984 48118	1.321032 26	0.03 2413	0.16 9926	Up
ATP2B4	1452.8 78825	2248.920008	656.8376422	0.2920 68033	- 1.775623 634	0.00 4354	0.04 0042	Dow n
ATP4A	15.580 12765	4.723692933	26.43656237	5.5965 87827	2.484547 501	0.01 3098	0.08 9769	Up
ATP6V0A4	68.221 38753	27.5611248	108.8816503	3.9505 51767	1.982054 166	0.00 021	0.00 3863	Up
ATP6V0D2	48.841 30577	2.540512439	95.14209911	37.449 96388	5.226892 422	0.00 0627	0.00 9131	Up
ATP6V1B1	114.08 1966	7.149624739	221.0143073	30.912 71436	4.950128 434	3.76 E-18	1.39 E-15	Up
ATP6V1C2	1532.4 58313	466.6213734	2598.295252	5.5683 15985	2.477241 082	2.16 E-11	2.56 E-09	Up
ATP8A1	146.29 57117	93.08270408	199.5087193	2.1433 48985	1.099866 772	0.01 2201	0.08 5064	Up
ATP8A2	183.67 24088	13.03174353	354.3130741	27.188 4628	4.764922 68	2.29 E-21	1.43 E-18	Up
ATP8B1	1223.2 98625	1725.955832	720.6414175	0.4175 31784	- 1.260042 07	0.00 0859	0.01 1733	Dow n
ATXN1	460.67 81824	643.7996574	277.5567074	0.4311 22794	- 1.213829	0.01 5752	0.10 2499	Dow n

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AUNIP	21.863 55814	36.1119267	7.615189581	0.2108 7741	- 2.245523 537	0.00 6678	0.05 4934	Dow n
AVPI1	563.15 71841	794.7764143	331.537954	0.4171 46191	- 1.261375 023	0.01 364	0.09 2642	Dow n
AZGP1	4584.1 75764	2328.710732	6839.640796	2.9370 93347	1.554389 118	0.00 7989	0.06 3003	Up
AZIN2	35.089 46006	17.46413489	52.71478523	3.0184 59579	1.593812 482	0.02 1332	0.12 7396	Up
B3GNT9	558.33 14302	858.31267	258.3501904	0.3009 97759	- 1.732175 348	0.00 1603	0.01 8919	Dow n
B4GALNT4	244.04 30165	118.0659591	370.020074	3.1340 11505	1.648010 476	0.00 2043	0.02 2669	Up
B4GALT3	1014.2 21965	634.8816505	1393.56228	2.1949 95365	1.134217 893	0.00 1641	0.01 9207	Up
BAG2	1306.4 3093	2208.398028	404.4638313	0.1831 48068	- 2.448917 616	0.04 1364	0.19 9724	Dow n
BAG3	1608.2 43244	2296.211431	920.2750571	0.4007 79756	- 1.319118 457	0.00 6866	0.05 6121	Dow n
BAI1	15.475 41016	28.28600309	2.664817228	0.0942 09748	- 3.407979 842	0.00 1807	0.02 0687	Dow n
BAIAP2L1	415.51 04072	172.1275313	658.8932831	3.8279 36637	1.936566 949	0.00 017	0.00 3216	Up
BAIAP3	42.148 72409	16.17914883	68.11829935	4.2102 52349	2.073906 706	0.00 1269	0.01 5914	Up
BARX1	101.89 22473	184.1473668	19.63712783	0.1066 38114	- 3.229204 93	0.00 1579	0.01 8735	Dow n
BARX2	957.54 46973	238.8609976	1676.228397	7.0175 89368	2.810975 531	1.39 E-13	2.42 E-11	Up
BATF2	222.75 36194	148.1377981	297.3694406	2.0073 83966	1.005316 597	0.01 3517	0.09 2011	Up
BBC3	176.45 31828	83.96285991	268.9435057	3.2031 24643	1.679479 939	7.52 E-05	0.00 1642	Up
BCHE	491.97 29138	843.3666363	140.5791913	0.1666 88111	- 2.584776 889	0.02 2998	0.13 4425	Dow n
BCL11A	114.32	47.27286007	181.3697733	3.8366	1.939849	5.53	0.00	Up

	13167			57504	982	E-05	1278	
BCL11B	91.898 90554	59.15794431	124.6398668	2.1068 99897	1.075121 771	0.02 1953	0.12 9949	Up
BCL2A1	89.216 37314	35.7681848	142.6645615	3.9885 88245	1.995878 197	0.00 0381	0.00 6205	Up
BCL2L14	42.579 75127	7.629472134	77.5300304	10.161 91278	3.345100 082	1.13 E-06	4.48 E-05	Up
BCL6B	1104.3 26682	1473.695056	734.9583066	0.4987 18038	- 1.003703 712	0.00 4018	0.03 7521	Down
BEGAIN	145.58 42001	226.5835426	64.58485762	0.2850 37726	- 1.810775 218	3.77 E-05	0.00 092	Down
BEX2	494.72 70117	273.3295854	716.1244381	2.6200 03382	1.389568 674	0.00 1271	0.01 5925	Up
BEX5	199.14 89544	44.3761409	353.9217679	7.9754 96757	2.995574 381	2.07 E-11	2.47 E-09	Up
BGLAP	29.813 89988	43.5376525	16.09014727	0.3695 68554	- 1.436086 09	0.03 5711	0.18 1835	Down
BHLHE41	983.10 16956	409.596501	1556.60689	3.8003 42254	1.926129 352	8.77 E-08	4.54 E-06	Up
BHMT2	189.09 8965	26.52861919	351.6693109	13.256 22372	3.728597 95	6.41 E-08	3.44 E-06	Up
BIK	67.890 8971	37.29528222	98.48651198	2.6407 23065	1.400933 013	0.00 7736	0.06 1528	Up
BIN2	417.81 7462	248.9584022	586.6765219	2.3565 2429	1.236660 552	0.00 076	0.01 0668	Up
BLA-DQB	3246.4 43341	1680.716053	4812.170629	2.8631 66934	1.517611 788	0.00 7125	0.05 7583	Up
BLNK	176.26 30509	66.07439218	286.4517097	4.3352 90878	2.116128 795	1.12 E-06	4.45 E-05	Up
BMF	1086.8 62378	694.6657842	1479.058972	2.1291 66292	1.090288 632	0.00 1793	0.02 0558	Up
BMP1	2400.3 46415	3463.883051	1336.809778	0.3859 28092	- 1.373596 031	7.85 E-05	0.00 1704	Down
BMP4	819.71 45385	1330.113823	309.3152538	0.2325 47958	- 2.104399 822	0.00 042	0.00 6693	Down
BMP5	73.349 47967	133.0050543	13.69390506	0.1029 5778	- 3.279875 25	2.54 E-09	1.99 E-07	Down
BMPER	80.913	123.3935087	38.43359216	0.3114	-	0.01	0.11	Down

	55043			71751	1.682826 773	9054	7659	n
BMX	137.96 26203	215.460443	60.4647977	0.2806 3062	- 1.833255 663	0.00 2306	0.02 4875	Dow n
BNC2	1162.5 23556	2030.324457	294.7226541	0.1451 60372	- 2.784280 432	0.00 5416	0.04 7171	Dow n
BNIP2	426.39 78366	624.8968502	227.898823	0.3646 98307	- 1.455224 594	0.00 0124	0.00 2456	Dow n
BNIP3	868.46 29281	1288.129867	448.7959894	0.3484 08962	- 1.521146 362	0.04 9256	0.22 5939	Dow n
BNIPL	563.20 80279	260.7417877	865.6742681	3.3200 44231	1.731202 462	0.00 0789	0.01 1022	Up
BOC	3108.0 05407	1978.811851	4237.198962	2.1412 84407	1.098476 428	0.00 1795	0.02 0579	Up
BOLA3	180.25 61477	246.8244914	113.687804	0.4606 01796	- 1.118408 058	0.00 7049	0.05 7205	Dow n
BOLA- DMA	917.92 25435	484.3014702	1351.543617	2.7907 07235	1.480630 783	3.12 E-05	0.00 0785	Up
BOLA- DMB	1937.9 33832	984.7200162	2891.147647	2.9360 09829	1.553856 798	7.49 E-06	0.00 0232	Up
BOLA-DOA	147.42 85532	64.3451589	230.5119475	3.5824 28756	1.840938 014	3.21 E-05	0.00 0803	Up
BOLA-DOB	124.05 43086	78.09670713	170.0119101	2.1769 40826	1.122302 192	0.00 9677	0.07 2268	Up
BOLA-DRA	12895. 79075	7088.470286	18703.11122	2.6385 25728	1.399732 051	7.50 E-05	0.00 1642	Up
BOLA- DRB2	184.68 08226	82.63191256	286.7297326	3.4699 63647	1.794920 548	3.12 E-05	0.00 0785	Up
BOLA- DRB3	3660.8 10657	1796.858114	5524.763201	3.0746 7972	1.620436 137	0.00 0706	0.01 0063	Up
BOLA-DYA	36.006 45725	14.61143596	57.40147853	3.9285 30959	1.973989 93	0.00 5165	0.04 5584	Up
BPI	98.891 74169	63.02216755	134.7613158	2.1383 16105	1.096475 141	0.02 3092	0.13 4848	Up
BPIFA1	16.832 81831	0.391806901	33.27382972	84.924 05227	6.408101 308	0.00 0141	0.00 2739	Up
BPIFA2A	9.5580 26387	18.05740854	1.058644231	0.0586 26587	- 4.092301 121	0.03 9293	0.19 3574	Dow n

BPIFB1	73.897 18274	10.40708066	137.3872848	13.201 32796	3.722611 156	0.00 4192	0.03 887	Up
BRB	1567.7 503	872.7853019	2262.715298	2.5925 22231	1.374356 36	6.49 E-05	0.00 1467	Up
BRI3BP	581.35 23394	368.255162	794.4495167	2.1573 34366	1.109249 798	0.04 3232	0.20 6323	Up
BRINP1	34.856 6057	5.758478125	63.95473328	11.106 18672	3.473291 651	0.00 1929	0.02 1687	Up
BRINP2	32.273 9382	64.54787641	0	0	#NAME?	0.00 5703	0.04 8973	Down
BRSK1	201.88 13378	130.2901217	273.4725539	2.0989 5079	1.069668 343	0.00 9226	0.06 979	Up
BSN	72.716 63474	39.39607745	106.037192	2.6915 67255	1.428446 475	0.00 5461	0.04 7388	Up
BSP5	611.23 90997	81.1654165	1141.312783	14.061 56504	3.813685 269	1.23 E-05	0.00 0352	Up
BTBD10	569.23 25273	793.8320959	344.6329586	0.4341 38353	- 1.203773 215	0.04 3918	0.20 8505	Down
BTBD19	266.22 0086	401.9287354	130.5114365	0.3247 12878	- 1.622763 491	0.00 1858	0.02 1137	Down
BTC	288.56 72994	88.30240053	488.8321982	5.5358 87986	2.468814 752	1.89 E-09	1.56 E-07	Up
BTK	166.75 31027	107.133129	226.3730764	2.1130 07233	1.079297 706	0.00 8674	0.06 6784	Up
BVES	256.09 02948	480.3153688	31.86522089	0.0663 42289	- 3.913927 405	0.00 6211	0.05 2127	Down
C10H14orf3 7	410.16 49921	71.73965984	748.5903244	10.434 81843	3.383333 592	3.72 E-05	0.00 0911	Up
C10H15orf4 8	1446.2 75868	273.4456599	2619.106076	9.5781 59246	3.259748 422	3.07 E-18	1.16 E-15	Up
C10H15orf5 2	1726.2 14991	2706.288128	746.141855	0.2757 06732	- 1.858793 602	0.02 2145	0.13 0721	Down
C11H2orf40	119.83 09236	197.9790118	41.68283542	0.2105 41688	- 2.247822 172	0.00 1184	0.01 5051	Down
C13H20orf1 94	1219.9 09131	1730.158569	709.6596934	0.4101 7032	- 1.285704 994	0.04 0604	0.19 7685	Down
C14H8orf22	16.814 0187	27.4392493	6.188788092	0.2255 45095	- 2.148512	0.01 9314	0.11 8543	Down

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C14H8orf88	11.404 96856	20.65717091	2.152766218	0.1042 13991	- 3.262379 122	0.00 4678	0.04 2316	Dow n
C15H11orf3 4	463.67 0122	44.08483932	883.2554046	20.035 35497	4.324476 165	3.28 E-17	9.75 E-15	Up
C15H11orf5 2	146.13 99807	42.12288528	250.1570761	5.9387 45041	2.570158 097	2.68 E-08	1.58 E-06	Up
C15H11orf7 0	55.266 22238	78.00237145	32.5300733	0.4170 39542	- 1.261743 913	0.04 3448	0.20 6923	Dow n
C16H1orf10 6	35.246 08018	14.06151344	56.43064692	4.0131 27545	2.004727 008	0.00 3897	0.03 6681	Up
C16H1orf11 6	587.62 30236	151.7869142	1023.459133	6.7427 36279	2.753334 172	1.35 E-12	1.96 E-10	Up
C16H1orf16 7	21.976 91775	10.56632149	33.38751402	3.1598 04862	1.659835 465	0.04 1584	0.20 0574	Up
C17H4orf29	546.67 6189	730.2953196	363.0570584	0.4971 37321	- 1.008283 683	0.00 5143	0.04 5529	Dow n
C18H19orf3 3	229.40 07566	80.1841465	378.6173667	4.7218 48186	2.239351 658	8.10 E-08	4.22 E-06	Up
C18H19orf8 4	37.811 57179	56.22823512	19.39490845	0.3449 31837	- 1.535616 799	0.01 5395	0.10 0793	Dow n
C1GALT1	288.77 82333	406.1817242	171.3747424	0.4219 16428	- 1.244970 831	0.00 1316	0.01 637	Dow n
C1H3orf52	33.815 72486	4.723692933	62.90775679	13.317 49495	3.735250 829	1.52 E-06	5.86 E-05	Up
C1H3orf70	72.909 8416	102.8009627	43.01872049	0.4184 66125	- 1.256817 255	0.01 4713	0.09 7949	Dow n
C1QTNF1	4050.0 79397	7158.221141	941.9376529	0.1315 8823	- 2.925897 638	1.27 E-08	8.26 E-07	Dow n
C1QTNF3	2489.2 79164	4866.92932	111.6290077	0.0229 36229	- 5.446227 946	3.08 E-05	0.00 0778	Dow n
C1QTNF6	686.91 01339	957.266354	416.5539137	0.4351 49436	- 1.200417 17	0.02 4809	0.14 1671	Dow n
C1QTNF7	379.80 41218	556.4659402	203.1423034	0.3650 57928	- 1.453802	0.00 0119	0.00 2374	Dow n

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C1R	8110.7 45864	11549.5857	4671.906032	0.4045 08539	- 1.305757 939	0.02 3852	0.13 7735	Dow n
C2	3785.2 32238	5607.429579	1963.034897	0.3500 77494	- 1.514253 778	0.03 4527	0.17 8229	Dow n
C20H5orf49	13.997 90822	4.173770413	23.82204602	5.7075 60229	2.512874 179	0.01 4586	0.09 7223	Up
C21H15orf2 6	30.581 70341	44.44150216	16.72190465	0.3762 67764	- 1.410168 4	0.03 8938	0.19 241	Dow n
C22H3orf67	74.565 07992	28.97768633	120.1524735	4.1463 79118	2.051852 033	0.00 0108	0.00 2196	Up
C23H6orf10	32.565 19469	4.551987268	60.57840211	13.308 12205	3.734235 097	0.04 4851	0.21 183	Up
C23H6orf13 2	737.93 83562	336.6672568	1139.209456	3.3837 84531	1.758637 705	1.74 E-06	6.61 E-05	Up
C25H16orf4 5	78.840 8799	25.59093452	132.0908253	5.1616 25698	2.367825 526	9.75 E-06	0.00 0291	Up
C25H16orf8 9	48.887 68478	5.6613776	92.11399196	16.270 59675	4.024195 26	4.60 E-09	3.43 E-07	Up
C25H16orf9 3	216.55 05628	140.723236	292.3778895	2.0776 80259	1.054973 65	0.01 0944	0.07 8801	Up
C25H7orf61	67.257 33241	15.26736435	119.2473005	7.8106 01606	2.965433 675	3.96 E-06	0.00 0134	Up
C27H8orf48	56.670 67427	89.03154549	24.30980305	0.2730 47075	- 1.872778 395	0.00 1048	0.01 3751	Dow n
C28H10orf7 1	52.920 09562	96.51365201	9.326539227	0.0966 34404	- 3.371319 28	0.01 5023	0.09 9256	Dow n
C28H1orf19 8	536.75 63486	750.7439895	322.7687078	0.4299 31791	- 1.217820 303	0.00 5526	0.04 7751	Dow n
C2CD4D	14.986 4905	3.548272231	26.42470878	7.4472 04459	2.896698 966	0.00 5942	0.05 0553	Up
C2H2orf72	173.75 77606	79.21153078	268.3039904	3.3871 83504	1.760086 148	5.60 E-05	0.00 129	Up
C2H2orf88	82.327 56491	157.0757391	7.579390753	0.0482 53096	- 4.373234 672	0.00 218	0.02 3859	Dow n
C3H1orf194	13.161 34079	2.399391667	23.92328992	9.9705 64724	3.317675 22	0.00 3633	0.03 4977	Up

C3H1orf226	1337.1 86589	886.893482	1787.479696	2.0154 38981	1.011094 105	0.00 4116	0.03 8225	Up
C3H2orf54	563.41 84306	96.67533509	1030.161526	10.655 88782	3.413578 895	3.59 E-11	4.08 E-09	Up
C4BPA	164.53 67875	1.633257974	327.4403169	200.48 29134	7.647335 475	2.67 E-31	8.08 E-28	Up
C4H7orf57	61.221 46453	28.85793573	93.58499332	3.2429 5522	1.697309 103	0.00 2408	0.02 576	Up
C5H22orf23	52.266 07931	22.31195374	82.22020488	3.6850 29371	1.881676 118	0.00 1479	0.01 7875	Up
C6H4orf19	1190.1 81953	343.3640294	2036.999877	5.9324 78952	2.568635 077	2.85 E-10	2.74 E-08	Up
C7H19orf35	30.593 27107	15.79865239	45.38788975	2.8728 96285	1.522505 911	0.02 4824	0.14 1671	Up
C7H19orf57	61.047 25527	12.68395687	109.4105537	8.6259 00793	3.108675 124	1.59 E-07	7.80 E-06	Up
C7H19orf80	32.098 57363	63.91581078	0.28133648	0.0044 01673	- 7.827732 407	0.01 8312	0.11 4352	Down
C7H5orf45	314.90 86727	182.7193773	447.0979682	2.4469 1053	1.290961 351	0.00 0865	0.01 1798	Up
C8B	18.415 69913	2.073615137	34.75778312	16.761 92582	4.067116 009	6.79 E-05	0.00 1521	Up
C8H9orf152	339.07 08207	116.8994437	561.2421978	4.8010 68166	2.263355 42	2.05 E-08	1.26 E-06	Up
C8H9orf3	2439.5 6158	3339.966543	1539.156618	0.4608 29951	- 1.117693 61	0.03 3398	0.17 3935	Down
CA12	72.258 96986	21.97711718	122.5408225	5.5758 36973	2.479188 38	5.68 E-06	0.00 0185	Up
CA4	108.45 30666	193.5225066	23.38362665	0.1208 31561	- 3.048930 756	0.01 1031	0.07 9171	Down
CA5B	230.58 62239	356.7157706	104.4566772	0.2928 28873	- 1.771870 283	0.00 255	0.02 6866	Down
CA8	678.08 26787	108.6585487	1247.506809	11.480 9817	3.521174 102	3.92 E-10	3.67 E-08	Up
CA9	138.62 47124	90.39116585	186.8582589	2.0672 18153	1.047690 644	0.01 8694	0.11 6032	Up
CACNA1A	481.01 87526	737.6273887	224.4101164	0.3042 32353	- 1.716754 511	0.00 25	0.02 6437	Down
CACNA1D	193.42	283.1955746	103.6574582	0.3660	-	0.00	0.02	Down

	65164			27818	1.449974 799	2894	9649	n
CACNA1S	480.52 77576	101.1964069	859.8591084	8.4969 33189	3.086942 221	1.74 E-14	3.39 E-12	Up
CACNA2D1	1490.9 2749	2078.689374	903.1656057	0.4344 88008	- 1.202611 735	0.02 5411	0.14 3807	Down
CACNA2D2	56.899 64619	14.05245341	99.74683897	7.0981 79659	2.827449 09	2.65 E-06	9.50 E-05	Up
CACNB2	256.29 14105	411.2812589	101.301562	0.2463 07265	- 2.021468 913	0.01 4951	0.09 8962	Down
CACNG4	26.267 9854	42.69074401	9.845226789	0.2306 17363	- 2.116426 961	0.00 8303	0.06 4838	Down
CADM3	636.60 22528	1051.824827	221.3796787	0.2104 72004	- 2.248299 752	2.32 E-09	1.85 E-07	Down
CADM4	324.94 75175	165.6970924	484.1979426	2.9221 87321	1.547048 662	9.72 E-05	0.00 2033	Up
CALD1	30843. 37571	49929.11958	11757.63184	0.2354 86464	- 2.086283 958	0.01 726	0.10 949	Down
CALHM2	537.70 68797	760.1242447	315.2895147	0.4147 86815	- 1.269558 058	0.00 0451	0.00 7112	Down
CALM1	11476. 43659	15655.47441	7297.398762	0.4661 24409	- 1.101213 031	0.00 1163	0.01 4853	Down
CALML5	38.026 60057	18.8376467	57.21555444	3.0372 98414	1.602788 66	0.01 5973	0.10 3512	Up
CALU	8270.3 743	12963.07841	3577.67019	0.2759 89242	- 1.857316 06	1.20 E-05	0.00 0349	Down
CAMK1	776.41 49662	1097.80915	455.020782	0.4144 8077	- 1.270622 926	0.00 0396	0.00 6402	Down
CAMK1D	616.88 44431	929.7512949	304.0175914	0.3269 88081	- 1.612690 047	0.01 4725	0.09 7994	Down
CAMK4	88.601 20401	45.85918891	131.3432191	2.8640 5456	1.518058 976	0.00 1917	0.02 1594	Up
CAMKK2	3071.9 646	4161.155555	1982.773645	0.4764 9592	- 1.069464	0.00 167	0.01 9473	Down

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CAMSAP3	1250.1 2064	618.5660806	1881.675199	3.0419 95444	1.605017 992	0.00 5972	0.05 0686	Up
CAP2	497.51 98602	816.1211157	178.9186047	0.2192 30456	- 2.189479 857	0.03 5437	0.18 1126	Down
CAPN2	5577.7 5914	8286.744125	2868.774155	0.3461 88335	- 1.530370 98	0.00 1054	0.01 3782	Down
CAPN3	100.20 15191	15.01278816	185.3902501	12.348 82209	3.626301 53	1.11 E-09	9.92 E-08	Up
CAPN5	1591.8 84528	1047.017038	2136.752018	2.0407 99664	1.029134 566	0.00 3174	0.03 1752	Up
CAPSL	90.614 68089	10.68883694	170.5405248	15.955 0123	3.995937 816	1.64 E-12	2.27 E-10	Up
CASK	927.13 07739	1386.764479	467.497069	0.3371 1353	- 1.568693 563	1.35 E-05	0.00 0381	Down
CASKIN1	44.863 76099	19.16390849	70.56361349	3.6821 09707	1.880532 612	0.00 2434	0.02 592	Up
CASP1	83.313 79554	48.14673564	118.4808554	2.4608 28421	1.299144 071	0.00 7083	0.05 739	Up
CASQ1	482.08 22095	894.9187675	69.24565158	0.0773 76466	- 3.691961 351	0.02 5629	0.14 459	Down
CAST	6596.6 66002	9374.507559	3818.824445	0.4073 62672	- 1.295614 309	0.00 1962	0.02 1979	Down
CAV1	13649. 93928	19986.49497	7313.383603	0.3659 16266	- 1.450414 547	1.81 E-05	0.00 0494	Down
CAV2	759.52 26598	1163.318284	355.7270352	0.3057 86507	- 1.709403 344	2.24 E-06	8.22 E-05	Down
CBLC	971.76 37866	264.1450703	1679.382503	6.3578 03692	2.668528 471	1.48 E-12	2.09 E-10	Up
CBLN2	62.434 31137	118.2542044	6.614418325	0.0559 33896	- 4.160133 377	0.00 6213	0.05 2127	Down
CBLN3	58.177 53844	81.53091315	34.82416373	0.4271 28342	- 1.227258 465	0.02 4541	0.14 0432	Down
CBX2	530.56 47324	344.6031558	716.5263089	2.0792 79591	1.056083 764	0.00 4691	0.04 2382	Up

CBX4	338.35 02818	211.5048407	465.1957229	2.1994 56624	1.137147 15	0.00 3744	0.03 5737	Up
CCBE1	152.68 65833	243.4439764	61.92919018	0.2543 87852	- 1.974898 318	0.00 4388	0.04 0271	Down
CCDC109B	181.08 99946	269.0307115	93.14927775	0.3462 40313	- 1.530154 387	0.00 4692	0.04 2382	Down
CCDC13	69.996 79052	19.7267811	120.2667999	6.0966 25664	2.608010 966	2.88 E-06	0.00 0102	Up
CCDC136	384.53 04269	645.950777	123.1100767	0.1905 87396	- 2.391475 379	0.00 2314	0.02 4945	Down
CCDC138	289.04 86007	185.5155911	392.5816103	2.1161 65051	1.081452 155	0.00 5331	0.04 6689	Up
CCDC141	202.50 80962	337.857034	67.15915843	0.1987 79814	- 2.330756 834	0.01 2301	0.08 5537	Down
CCDC146	53.171 89244	27.59106974	78.75271515	2.8542 82777	1.513128 271	0.02 1069	0.12 6391	Up
CCDC151	44.873 73249	67.18812868	22.5593363	0.3357 63724	- 1.574481 725	0.00 9293	0.07 0184	Down
CCDC155	46.591 6237	14.93316774	78.25007965	5.2400 18797	2.389571 987	0.00 0143	0.00 2772	Up
CCDC158	166.94 19791	33.85885493	300.0251034	8.8610 5286	3.147478 128	9.76 E-12	1.22 E-09	Up
CCDC160	216.81 23238	84.8550977	348.7695498	4.1101 7793	2.039200 85	1.80 E-06	6.81 E-05	Up
CCDC181	13.223 29225	1.175420702	25.2711638	21.499 6756	4.426242 987	0.00 0403	0.00 6485	Up
CCDC184	69.317 56581	108.5612352	30.07389645	0.2770 22423	- 1.851925 336	0.00 0387	0.00 6294	Down
CCDC28A	229.16 41631	136.7954379	321.5328883	2.3504 64995	1.232946 195	0.00 2272	0.02 4629	Up
CCDC3	7972.7 25017	13689.08474	2256.365291	0.1648 29522	- 2.600953 436	0.04 8367	0.22 3891	Down
CCDC30	113.50 24455	66.02857761	160.9763135	2.4379 79422	1.285685 949	0.00 4871	0.04 369	Up
CCDC37	53.775 68825	28.05231181	79.49906469	2.8339 57687	1.502818 218	0.00 9506	0.07 1337	Up
CCDC39	85.004	19.7809866	150.2284593	7.5945	2.924971	3.49	2.00	Up

	72294			88801	854	E-08	E-06	
CCDC40	100.84 11576	61.28351451	140.3988006	2.2909 71752	1.195959 67	0.00 9996	0.07 3799	Up
CCDC42B	15.410 06509	5.181530205	25.63859998	4.9480 74984	2.306867 363	0.02 0531	0.12 3874	Up
CCDC57	659.58 99467	379.5039027	939.6759908	2.4760 64104	1.308048 666	0.00 0318	0.00 5351	Up
CCDC64	2192.5 66003	1209.532541	3175.599465	2.6254 76666	1.392579 374	0.04 2037	0.20 2006	Up
CCDC64B	223.07 34609	66.36070764	379.7862141	5.7230 58533	2.516786 362	5.52 E-09	4.03 E-07	Up
CCDC68	385.96 25464	89.44831121	682.4767815	7.6298 45352	2.931653 816	3.59 E-13	5.82 E-11	Up
CCDC69	790.66 75478	1224.951453	356.3836426	0.2909 36952	- 1.781221 548	0.00 0399	0.00 644	Down
CCDC7	29.273 53815	5.98715413	52.55992218	8.7787 82212	3.134020 824	6.55 E-05	0.00 1479	Up
CCDC80	23842. 84659	39631.11241	8054.580761	0.2032 38826	- 2.298752 059	0.02 621	0.14 7045	Down
CCDC85A	157.84 91765	230.2152078	85.48314515	0.3713 18411	- 1.429271 245	0.01 4452	0.09 6535	Down
CCL14	1217.5 09404	1748.705339	686.3134678	0.3924 69476	- 1.349347 642	0.00 0139	0.00 2711	Down
CCL16	227.73 43374	367.4555629	88.01311182	0.2395 20423	- 2.061779 421	0.00 0818	0.01 1317	Down
CCL22	22.751 81235	6.595172204	38.9084525	5.8995 35492	2.560601 366	0.00 1961	0.02 1974	Up
CCL26	325.71 07936	482.3887736	169.0328137	0.3504 07851	- 1.512892 994	0.00 3132	0.03 1517	Down
CCL27	38.030 98132	18.261824	57.80013865	3.1650 80261	1.662242 084	0.01 1134	0.07 9707	Up
CCL28	413.27 66528	49.27074485	777.2825608	15.775 74204	3.979635 961	6.91 E-21	4.05 E-18	Up
CCL5	340.80 88265	183.9850969	497.6325561	2.7047 43833	1.435491 963	0.00 0605	0.00 8915	Up
CCM2L	123.73 73015	186.4288605	61.04574257	0.3274 4792	- 1.610662 629	0.00 0303	0.00 5119	Down

CCND2	211.26 35642	307.6379088	114.8892197	0.3734 5599	- 1.420989 858	0.00 0534	0.00 8109	Dow n
CCNE2	105.58 36281	153.3999192	57.76733703	0.3765 7997	- 1.408971 828	0.00 2318	0.02 498	Dow n
CCNJL	103.06 57861	56.8234578	149.3081144	2.6275 78824	1.393734 044	0.00 2663	0.02 7739	Up
CCNYL1	1377.4 095	1848.147303	906.6716961	0.4905 84108	- 1.027427 595	0.00 3343	0.03 2898	Dow n
CCR5	70.074 852	41.24053132	98.90917268	2.3983 48651	1.262041 401	0.01 4857	0.09 8548	Up
CCRN4L	241.43 36571	366.7830498	116.0842645	0.3164 92991	- 1.659754 544	0.00 2031	0.02 2568	Dow n
CCSER1	204.27 13065	116.6130699	291.929543	2.5034 03291	1.323890 723	0.00 1129	0.01 4563	Up
CD109	1453.9 92655	2479.633188	428.3521227	0.1727 48181	- 2.533257 576	0.00 0877	0.01 1908	Dow n
CD163	516.96 58754	897.5058544	136.4258964	0.1520 05578	- 2.717803 827	0.04 5664	0.21 4553	Dow n
CD177	72.916 55747	23.64485011	122.1882648	5.1676 48103	2.369507 831	0.00 02	0.00 3696	Up
CD180	47.085 34141	17.58826081	76.582422	4.3541 78212	2.122400 457	0.00 3302	0.03 2672	Up
CD1E	106.94 8565	43.59635885	170.3007712	3.9063 07217	1.965805 417	0.01 1979	0.08 4274	Up
CD2	252.38 18983	130.4045053	374.3592914	2.8707 54279	1.521429 849	0.00 0503	0.00 7742	Up
CD207	49.890 15905	3.24903584	96.53128225	29.710 74713	4.892912 98	7.32 E-06	0.00 0228	Up
CD209	234.03 1286	459.3844844	8.678087633	0.0188 90685	- 5.726181 166	0.00 0448	0.00 7092	Dow n
CD244	233.58 99557	144.7932219	322.3866896	2.2265 31639	1.154798 113	0.00 3939	0.03 6943	Up
CD247	482.81 64573	268.3329541	697.2999605	2.5986 37066	1.377755 157	0.00 0236	0.00 4188	Up
CD248	5616.2 82972	9393.57745	1838.988495	0.1957 70834	- 2.352762 245	3.14 E-06	0.00 0109	Dow n

CD27	168.47 47106	85.26609157	251.6833296	2.9517 39959	1.561565 629	0.00 0228	0.00 4076	Up
CD276	1888.4 99177	2707.050482	1069.947873	0.3952 44891	- 1.339181 28	0.00 0127	0.00 2502	Down
CD300E	44.347 63031	19.43836991	69.2568907	3.5628 96015	1.833050 378	0.00 3127	0.03 149	Up
CD300LD	51.287 24618	21.99864205	80.57585032	3.6627 64736	1.872933 038	0.00 1898	0.02 1472	Up
CD302	1708.1 59266	2326.765257	1089.553276	0.4682 69531	- 1.094588 925	0.00 1884	0.02 1376	Down
CD37	238.26 2488	146.3173706	330.2076054	2.2567 90182	1.174272 295	0.02 1506	0.12 8168	Up
CD3D	284.36 35061	159.2719571	409.455055	2.5707 91886	1.362212 824	0.00 053	0.00 8066	Up
CD3E	711.36 8374	343.1185142	1079.618234	3.1464 87843	1.653742 369	5.89 E-06	0.00 019	Up
CD3G	188.33 31308	97.03084356	279.6354181	2.8819 22982	1.527031 781	0.00 0266	0.00 4618	Up
CD40LG	21.500 95719	10.37324565	32.62866873	3.1454 63804	1.653272 76	0.04 0692	0.19 7848	Up
CD5	119.66 938	73.07216733	166.2665928	2.2753 75137	1.186104 419	0.02 5823	0.14 5391	Up
CD52	603.74 93487	309.3589811	898.1397164	2.9032 28196	1.537657 973	2.55 E-05	0.00 0661	Up
CD55	517.67 93673	829.2343157	206.1244188	0.2485 71984	- 2.008264 394	0.01 5394	0.10 0793	Down
CD59	6485.9 01798	4100.294818	8871.508778	2.1636 27049	1.113451 839	0.00 121	0.01 53	Up
CD5L	76.366 27603	138.4280559	14.30449617	0.1033 35238	- 3.274595 782	1.30 E-09	1.13 E-07	Down
CD6	113.84 22295	70.67505525	157.0094037	2.2215 6747	1.151577 957	0.01 0828	0.07 8317	Up
CD7	360.91 10904	129.3822352	592.4399455	4.5789 89878	2.195029 376	3.24 E-08	1.88 E-06	Up
CD74	42555. 24584	19514.76423	65595.72746	3.3613 38456	1.749035 816	3.96 E-07	1.77 E-05	Up
CD83	231.71 71921	141.1397887	322.2945955	2.2835 13376	1.191255 241	0.00 3157	0.03 1634	Up
CD84	199.68 43604	99.16708427	300.2016365	3.0272 30645	1.597998 598	0.00 0125	0.00 2471	Up

CD8A	166.47 11432	82.70231825	250.2399682	3.0257 91459	1.597312 559	0.00 0217	0.00 3945	Up
CD8B	78.343 10102	46.95109914	109.7351029	2.3372 21171	1.224794 262	0.01 5798	0.10 2762	Up
CD96	259.78 24427	115.9080096	403.6568757	3.4825 62395	1.800149 201	1.06 E-05	0.00 0312	Up
CD99	12677. 75163	18730.56023	6624.94304	0.3536 97004	- 1.499414 095	0.00 0619	0.00 9041	Down
CDC42BPG	2336.4 49827	1156.414994	3516.484659	3.0408 50108	1.604474 703	6.62 E-06	0.00 021	Up
CDC42EP2	344.81 76646	571.0515724	118.5837569	0.2076 58577	- 2.267714 634	7.13 E-09	5.06 E-07	Down
CDC42EP5	399.73 70208	546.7624392	252.7116025	0.4621 96348	- 1.113422 235	0.02 7692	0.15 2632	Down
CDCA7	776.65 19451	358.0268901	1195.277	3.3385 11808	1.739205 143	2.50 E-06	9.05 E-05	Up
CDCP1	994.85 01923	516.0718471	1473.628537	2.8554 71667	1.513729 07	0.00 0258	0.00 4508	Up
CDH1	3246.4 41197	694.5138735	5798.368521	8.3488 15974	3.061571 61	1.20 E-16	3.47 E-14	Up
CDH11	3650.6 36191	5527.895116	1773.377267	0.3208 05158	- 1.640230 756	0.00 3078	0.03 1064	Down
CDH13	5453.5 82235	8085.47891	2821.68556	0.3489 81871	- 1.518776 001	0.00 731	0.05 8959	Down
CDH17	86.006 21351	128.5817733	43.43065371	0.3377 66797	- 1.565900 579	0.03 1488	0.16 6859	Down
CDH26	54.272 89842	7.801663061	100.7441338	12.913 16133	3.690770 332	9.68 E-09	6.59 E-07	Up
CDH5	2346.5 99963	3205.667979	1487.531946	0.4640 3182	- 1.107704 357	0.00 0997	0.01 3191	Down
CDHR1	15.423 80631	3.962089255	26.88552336	6.7856 93515	2.762496 27	0.00 698	0.05 6844	Up
CDHR4	106.57 00268	201.3524415	11.78761204	0.0585 42186	- 4.094379 578	0.01 802	0.11 3126	Down
CDHR5	51.915 49942	22.55923507	81.27176377	3.6025 93949	1.849036 054	0.00 1572	0.01 8697	Up

CDK18	217.03 05533	135.7860968	298.2750099	2.1966 53538	1.135307 342	0.00 6711	0.05 508	Up
CDKL4	52.408 67859	75.10032762	29.71702957	0.3956 97735	- 1.337529 286	0.03 3215	0.17 3181	Down
CDKN1A	487.68 73938	711.1485325	264.2262551	0.3715 48619	- 1.428377 088	0.00 0286	0.00 4885	Down
CDKN1C	573.38 11719	856.8113138	289.95103	0.3384 07098	- 1.563168 267	0.02 7968	0.15 3597	Down
CDKN2C	518.80 66452	740.2146905	297.3985998	0.4017 73436	- 1.315545 913	0.00 173	0.02 0029	Down
CDON	1736.6 04266	2710.224663	762.9838701	0.2815 20525	- 1.828687 985	0.00 6278	0.05 2551	Down
CDR2L	1203.6 10487	1816.403558	590.817416	0.3252 67705	- 1.620300 508	5.56 E-06	0.00 0182	Down
CDS1	197.22 69094	57.37148961	337.0823292	5.8754 32753	2.554695 117	4.54 E-09	3.39 E-07	Up
CEACAM19	301.13 99476	113.7041281	488.5757671	4.2969 04389	2.103297 676	9.87 E-05	0.00 2057	Up
CECR1	226.36 83198	93.59362163	359.1430181	3.8372 59546	1.940076 35	2.73 E-06	9.75 E-05	Up
CELA3B	13.427 08346	26.29149395	0.56267296	0.0214 01331	- 5.546155 676	0.01 8707	0.11 6073	Down
CELF5	16.899 25182	6.0531845	27.74531914	4.5835 90529	2.196478 168	0.01 9189	0.11 8094	Up
CELF6	345.34 81858	167.4763397	523.2200319	3.1241 42985	1.643460 484	0.00 0216	0.00 3933	Up
CELSR1	1578.8 78352	614.5151915	2543.241513	4.1386 14551	2.049147 89	1.25 E-08	8.17 E-07	Up
CELSR2	728.83 76313	283.5651575	1174.110105	4.1405 30225	2.049815 527	3.81 E-08	2.13 E-06	Up
CELSR3	20.095 04174	4.103210027	36.08687345	8.7947 90716	3.136649 247	0.00 0586	0.00 8719	Up
CEMIP	602.28 51829	1183.620842	20.94952395	0.0176 99523	- 5.820145 734	0.03 9042	0.19 2717	Down
CENPBD1	53.235 28731	29.23402769	77.23654693	2.6420 08407	1.401635 057	0.01 4228	0.09 5633	Up

CENPM	267.19 41041	395.6804466	138.7077616	0.3505 55007	- 1.512287 255	0.01 207	0.08 4511	Dow n
CEP170	1152.3 08287	1556.918203	747.6983708	0.4802 42552	- 1.058164 856	0.00 3195	0.03 1902	Dow n
CEP72	122.63 23736	71.54561349	173.7191337	2.4280 89232	1.279821 441	0.00 5914	0.05 0432	Up
CEP85L	348.35 01621	467.1403495	229.5599746	0.4914 15428	- 1.024984 944	0.01 1287	0.08 0451	Dow n
CERCAM	2086.2 76259	3487.03522	685.5172983	0.1965 903	- 2.346735 959	0.00 1713	0.01 9874	Dow n
CERS4	83.549 85102	50.93516936	116.1645327	2.2806 35053	1.189435 605	0.01 3632	0.09 2642	Up
CES4A	33.408 11498	1.655268097	65.16096186	39.365 80543	5.298871 091	2.15 E-09	1.74 E-07	Up
CFAP43	22.827 7928	5.816088418	39.83949719	6.8498 78187	2.776078 333	0.00 0893	0.01 2083	Up
CFAP44	132.33 48127	75.23077789	189.4388476	2.5181 03001	1.332337 296	0.00 2426	0.02 5884	Up
CFAP46	125.83 20318	37.55779323	214.1062703	5.7007 14869	2.511142 844	0.00 0547	0.00 8247	Up
CFAP54	189.20 41075	66.93406691	311.4741481	4.6534 47227	2.218299 846	2.02 E-07	9.67 E-06	Up
CFAP74	31.524 49879	8.704387511	54.34461006	6.2433 58306	2.642322 264	0.00 0291	0.00 4962	Up
CFB	7414.9 23049	12148.06214	2681.783953	0.2207 58169	- 2.179461 272	0.00 5408	0.04 7156	Dow n
CFI	2466.1 5074	377.636803	4554.664677	12.060 96609	3.592273 568	1.04 E-21	6.99 E-19	Up
CFL2	2740.2 68428	4968.46369	512.0731658	0.1030 64689	- 3.278377 957	0.00 2721	0.02 8232	Dow n
CFTR	50.617 3485	6.150285025	95.08441198	15.460 16349	3.950483 67	4.24 E-09	3.19 E-07	Up
CGN	2578.8 01896	1051.80703	4105.796761	3.9035 64668	1.964792 17	4.45 E-08	2.44 E-06	Up
CGREF1	693.01 32603	1234.76176	151.2647605	0.1225 0522	- 3.029084 876	0.00 0382	0.00 6207	Dow n
CHAC2	103.11	138.1242895	68.10428127	0.4930	-	0.02	0.14	Dow

	42854			65206	1.020149 644	6093	6528	n
CHI3L1	10327. 75291	3473.284378	17182.22144	4.9469 66493	2.306544 128	3.75 E-09	2.85 E-07	Up
CHI3L2	51.994 33824	0.805623925	103.1830526	128.07 84363	7.000883 789	0.00 1649	0.01 9249	Up
CHN1	660.67 68039	1016.892351	304.4612571	0.2994 03626	- 1.739836 401	0.00 6898	0.05 6286	Dow n
CHODL	1310.4 72119	585.3358399	2035.608399	3.4776 75994	1.798123 527	0.00 513	0.04 5495	Up
CHP2	412.89 35977	249.0445811	576.7426143	2.3158 20773	1.211523 604	0.00 1235	0.01 5553	Up
CHRDL1	1943.8 21352	3416.642079	471.0006249	0.1378 54833	- 2.858778 243	8.99 E-06	0.00 0273	Dow n
CHRDL2	754.68 54281	1366.21445	143.1564063	0.1047 83262	- 3.254519 818	0.00 0367	0.00 6048	Dow n
CHRND	8.4699 38194	2.073615137	14.86626125	7.1692 48037	2.841821 806	0.03 5879	0.18 2351	Up
CHST12	387.48 36752	575.623048	199.3443024	0.3463 10494	- 1.529861 988	0.02 3352	0.13 5667	Dow n
CHST3	1361.5 5839	1919.107337	804.0094434	0.4189 497	- 1.255151 053	0.01 3459	0.09 172	Dow n
CHST8	79.345 86664	25.71053043	132.9812028	5.1722 4657	2.370791 053	7.23 E-06	0.00 0227	Up
CHSY3	166.03 6752	291.6778075	40.39569649	0.1384 94241	- 2.852102 112	0.02 8561	0.15 5851	Dow n
CIDEB	172.09 6059	274.8156837	69.37643417	0.2524 47143	- 1.985946 746	0.00 1767	0.02 0318	Dow n
CIDEC	655.10 54746	1306.331368	3.879581131	0.0029 69829	- 8.395404 29	0.00 0811	0.01 1271	Dow n
CIITA	856.37 28835	510.9061212	1201.839646	2.3523 68852	1.234114 293	0.00 0491	0.00 7622	Up
CILP	7014.2 90086	13695.40704	333.1731311	0.0243 27362	- 5.361276 276	0.00 2462	0.02 6122	Dow n
CIRBP	7836.8	4828.305203	10845.41207	2.2462	1.167496	0.00	0.00	Up

	58638			15103	091	0599	8838	
CIST1	64.781 89708	30.06345607	99.5003381	3.3096 773	1.726690 558	0.00 2434	0.02 592	Up
CITED2	2730.6 30917	4133.522495	1327.739339	0.3212 12559	- 1.638399 793	0.00 5191	0.04 575	Down
CKAP4	4030.1 31371	6348.528608	1711.734135	0.2696 26907	- 1.890963 618	4.18 E-06	0.00 0141	Down
CKMT1B	89.465 78987	17.93945227	160.9921275	8.9741 94144	3.165782 395	3.64 E-09	2.77 E-07	Up
CLCA2	179.37 78634	60.98546164	297.7702652	4.8826 43457	2.287662 432	2.49 E-07	1.17 E-05	Up
CLCN3	1104.5 41199	554.1660612	1654.916337	2.9863 18458	1.578368 021	1.21 E-05	0.00 035	Up
CLCN4	195.50 84515	110.1799617	280.8369412	2.5488 93073	1.349870 853	0.00 1508	0.01 8109	Up
CLDN1	107.62 32312	39.63721829	175.6092441	4.4304 12923	2.147441 167	8.65 E-06	0.00 0264	Up
CLDN10	31.286 29624	13.86956282	48.70302967	3.5115 04313	1.812089 207	0.00 9139	0.06 9338	Up
CLDN19	15.834 16943	4.419926527	27.24841233	6.1649 01648	2.624077 879	0.00 8107	0.06 3684	Up
CLDN23	55.846 58728	12.34863505	99.3445395	8.0449 81416	3.008089 088	9.72 E-07	3.93 E-05	Up
CLDN3	1768.9 66777	842.8909996	2695.042553	3.1973 79679	1.676890 07	0.01 8204	0.11 4005	Up
CLDN4	1844.3 77472	454.4177492	3234.337194	7.1175 41514	2.831379 003	2.73 E-14	5.16 E-12	Up
CLDN5	1687.3 56807	2638.138822	736.574792	0.2792 02438	- 1.840616 553	1.21 E-07	6.05 E-06	Down
CLDN7	2620.1 59807	832.611927	4407.707687	5.2938 32029	2.404312 42	4.49 E-11	4.88 E-09	Up
CLEC11A	307.96 62394	487.5589102	128.3735686	0.2632 9858	- 1.925228 355	0.00 0552	0.00 8299	Down
CLEC3B	4284.5 85627	6178.223151	2390.948104	0.3869 96074	- 1.369609 164	5.30 E-05	0.00 1228	Down
CLEC4A	96.934 88043	31.55881422	162.3109466	5.1431 25641	2.362645 398	1.99 E-06	7.38 E-05	Up
CLEC4E	19.905 85052	6.111920009	33.69978103	5.5137 79791	2.463041 65	0.03 7732	0.18 7989	Up

CLEC4G	21.643 32174	41.64592827	1.640715207	0.0393 96774	- 4.665778 705	9.29 E-07	3.77 E-05	Dow n
CLEC5A	89.577 71688	51.01642941	128.1390043	2.5117 20358	1.328675 851	0.00 5989	0.05 0794	Up
CLEC6A	71.707 66308	22.76137094	120.6539552	5.3008 21095	2.406215 85	1.01 E-05	0.00 03	Up
CLEC7A	97.612 13721	38.73449384	156.4897806	4.0400 62618	2.014377 654	4.17 E-05	0.00 1004	Up
CLIC2	602.16 99352	916.1057479	288.2341224	0.3146 2975	- 1.668273 003	5.86 E-06	0.00 019	Dow n
CLIC4	4171.2 92437	6178.812356	2163.772517	0.3501 92301	- 1.513780 728	1.33 E-05	0.00 0378	Dow n
CLIC6	795.22 03846	143.1194571	1447.321312	10.112 68028	3.338093 518	1.16 E-17	3.83 E-15	Up
CLIP4	278.11 26598	82.48774671	473.7375728	5.7431 26606	2.521836 366	1.22 E-09	1.07 E-07	Up
CLMP	749.30 97125	1182.059197	316.5602283	0.2678 0404	- 1.900750 371	0.04 1077	0.19 8707	Dow n
CLN3	1105.1 3473	686.3671905	1523.90227	2.2202 43466	1.150717 888	0.00 1132	0.01 4586	Up
CLOCK	1284.8 87613	1731.221854	838.5533723	0.4843 70833	- 1.045816 1	0.00 2911	0.02 9754	Dow n
CLSTN2	84.639 76838	117.8865908	51.39294592	0.4359 52431	- 1.197757 37	0.01 3637	0.09 2642	Dow n
CLTB	1542.0 36738	2080.597966	1003.475511	0.4823 01496	- 1.051992 811	0.00 339	0.03 3286	Dow n
CNDP1	11.603 05225	3.178475453	20.02762905	6.3010 17371	2.655584 787	0.02 245	0.13 2033	Up
CNIH1	918.32 82072	1235.869455	600.7869596	0.4861 24936	- 1.040600 955	0.00 3429	0.03 3527	Dow n
CNKSRI	279.82 35359	109.9294303	449.7176416	4.0909 66726	2.032441 803	6.16 E-07	2.63 E-05	Up
CNKSRI2	15.573 91761	6.47153154	24.67630369	3.8130 54689	1.930947 223	0.04 906	0.22 563	Up
CNN1	31445. 93693	58506.30139	4385.572472	0.0749 58977	- 3.737754	0.01 6612	0.10 6406	Dow n

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CNST	574.34 54307	842.0961807	306.5946806	0.3640 8511	- 1.457652 355	0.01 6736	0.10 7101	Dow n
CNTN1	477.81 06447	785.1718155	170.4494738	0.2170 85573	- 2.203664 241	0.00 7869	0.06 2173	Dow n
COBL	252.13 80972	67.99460557	436.2815888	6.4164 14731	2.681767 395	3.18 E-10	3.02 E-08	Up
COCH	317.69 72198	555.7585181	79.63592158	0.1432 92309	- 2.802966 913	0.02 9296	0.15 9035	Dow n
COL11A1	404.63 43965	761.6775704	47.59122258	0.0624 82111	- 4.000412 991	0.02 6872	0.14 9376	Dow n
COL11A2	134.39 4102	62.57078015	206.2174239	3.2957 46407	1.720605 238	0.00 014	0.00 2729	Up
COL12A1	25244. 78964	45110.11832	5379.460959	0.1192 51759	- 3.067917 548	0.00 0109	0.00 2203	Dow n
COL14A1	16131. 65349	29585.7051	2677.601874	0.0905 0323	- 3.465886 907	0.00 0781	0.01 0934	Dow n
COL17A1	11658. 62667	2322.119598	20995.13374	9.0413 66242	3.176540 795	5.54 E-18	1.97 E-15	Up
COL19A1	10.367 16912	2.069085122	18.66525312	9.0210 17511	3.173290 169	0.01 6546	0.10 6164	Up
COL1A1	598852 .8897	1102775.715	94930.06407	0.0860 82839	- 3.538130 536	0.00 7957	0.06 2782	Dow n
COL1A2	367056 .7897	675659.9596	58453.61975	0.0865 1337	- 3.530933 09	0.00 544	0.04 723	Dow n
COL21A1	1112.0 07846	1900.803241	323.2124517	0.1700 39931	- 2.556054 517	0.00 104	0.01 3683	Dow n
COL23A1	209.01 76502	44.96555365	373.0697468	8.2967 89798	3.052553 235	6.88 E-12	8.74 E-10	Up
COL25A1	404.57 44802	211.5000517	597.6489088	2.8257 62472	1.498640 201	0.04 0144	0.19 6145	Up
COL26A1	241.65 4512	13.91586266	469.3931613	33.730 79865	5.075994 573	3.92 E-25	5.08 E-22	Up
COL3A1	640113 .6384	1155220.676	125006.6009	0.1082 10149	- 3.208092	0.00 758	0.06 0731	Dow n

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COL4A1	62423.64209	92466.51648	32380.7677	0.350189116	-1.513793848	7.19E-05	0.001589	Down
COL4A2	45042.43877	65101.34853	24983.52902	0.383763618	-1.381710151	4.23E-05	0.001012	Down
COL5A1	34444.65992	61144.00393	7745.315917	0.126673352	-2.980815038	0.000224	0.004044	Down
COL5A2	38726.37241	70597.34167	6855.403145	0.097105684	-3.364300446	0.000692	0.009893	Down
COL5A3	5824.455994	10411.10647	1237.805521	0.118892792	-3.072266836	0.004832	0.043407	Down
COL6A1	62186.21153	102295.3515	22077.0716	0.215816958	-2.212119863	0.012159	0.085004	Down
COL6A2	54224.67363	87224.32962	21225.01764	0.243338272	-2.038964851	0.018392	0.114747	Down
COL6A3	88437.89272	164887.0452	11988.74029	0.072708807	-3.781726073	1.84E-05	0.000499	Down
COL6A6	688.357989	1340.131127	36.58485104	0.027299456	-5.194983975	2.56E-08	1.52E-06	Down
COL7A1	3370.175644	1078.626792	5661.724496	5.249011556	2.392045774	2.98E-11	3.42E-09	Up
COL8A1	22475.11598	44745.95131	204.2806535	0.004565344	-7.775060761	0.000614	0.008971	Down
COL9A1	500.8061132	217.8223597	783.7898666	3.598298484	1.847314865	2.34E-05	0.000617	Up
COL9A3	187.0886784	102.8796709	271.2976858	2.637038818	1.398918808	0.001646	0.019238	Up
COLGALT1	2448.375005	3353.260238	1543.489772	0.460295254	-1.119368529	0.001068	0.013912	Down
COLQ	56.17791067	91.5706313	20.78519004	0.226985331	-2.13932903	0.031031	0.165065	Down
COMP	170.11	279.9313674	60.28954575	0.2153	-	0.00	0.00	Down

	04566			72598	2.215093 391	0144	2793	n
COPZ2	1322.9 26314	2080.492058	565.3605709	0.2717 43681	- 1.879681 605	0.00 3038	0.03 0795	Dow n
CORO1A	1319.0 43605	857.7410796	1780.34613	2.0756 21855	1.053543 631	0.00 2001	0.02 2257	Up
CORO1C	2852.6 61818	4230.602254	1474.721381	0.3485 84266	- 1.520420 643	0.00 9859	0.07 3181	Dow n
CORO2A	538.18 30416	163.1252677	913.2408155	5.5984 01942	2.485015 07	5.44 E-11	5.81 E-09	Up
CORO2B	309.33 12459	437.2446375	181.4178544	0.4149 11559	- 1.269124 244	0.00 0987	0.01 3115	Dow n
CPE	1877.0 33011	3184.283685	569.782338	0.1789 35797	- 2.482486 063	0.02 284	0.13 3673	Dow n
CPEB4	1229.5 48236	1928.211215	530.8852567	0.2753 25261	- 1.860791 11	3.36 E-07	1.52 E-05	Dow n
CPED1	427.50 50664	730.7634987	124.2466341	0.1700 23043	- 2.556197 805	0.00 9022	0.06 8968	Dow n
CPNE8	431.29 84237	643.1607276	219.4361199	0.3411 83954	- 1.551378 299	3.46 E-05	0.00 0859	Dow n
CPT1B	197.83 90601	124.5979833	271.0801368	2.1756 38238	1.121438 687	0.00 6563	0.05 4245	Up
CRABP1	169.99 52833	56.15281415	283.8377525	5.0547 37804	2.337636 26	1.03 E-07	5.25 E-06	Up
CRABP2	827.00 93337	1320.106255	333.9124123	0.2529 43588	- 1.983112 429	0.04 2443	0.20 3502	Dow n
CRACR2A	803.89 57026	364.3486837	1243.442722	3.4127 82252	1.770948 368	1.91 E-06	7.07 E-05	Up
CRB1	41.686 73469	71.78866621	11.58480317	0.1613 73707	- 2.631522 562	3.72 E-05	0.00 0911	Dow n
CRB3	146.36 88164	73.81814354	218.9194893	2.9656 59644	1.568353 035	0.01 6971	0.10 8108	Up
CREB3L1	1943.5 95204	3247.09544	640.0949691	0.1971 28474	- 2.342791 915	4.62 E-11	5.00 E-09	Dow n

CREB3L4	304.31 53809	168.1864365	440.4443252	2.6187 86238	1.388898 302	0.00 0337	0.00 5639	Up
CREB5	295.62 45724	469.0408953	122.2082496	0.2605 49242	- 1.940372 038	0.00 9032	0.06 9013	Down
CREG2	29.728 72391	42.95681451	16.50063331	0.3841 21437	- 1.380365 616	0.04 0744	0.19 795	Down
CREM	212.54 79595	285.9614335	139.1344855	0.4865 49825	- 1.039340 543	0.01 1029	0.07 9171	Down
CRISPLD2	11879. 32356	18495.08825	5263.558871	0.2845 92255	- 1.813031 695	0.00 6697	0.05 5017	Down
CRLF1	3319.9 79874	5718.483632	921.4761162	0.1611 39941	- 2.633613 961	0.00 2068	0.02 2884	Down
CROT	1474.1 93059	860.1819695	2088.204148	2.4276 3069	1.279548 964	0.00 0223	0.00 4027	Up
CRTAM	54.797 17461	27.13727722	82.45707199	3.0385 16773	1.603367 256	0.00 5351	0.04 6797	Up
CRYAB	2809.2 11868	1759.61056	3858.813176	2.1929 92736	1.132901 033	0.00 0846	0.01 1625	Up
CSDC2	276.03 44757	134.689523	417.3794283	3.0988 26241	1.631721 861	0.00 1295	0.01 6144	Up
CSF1	2066.9 69655	2831.252875	1302.686435	0.4601 09532	- 1.119950 75	0.00 7538	0.06 0472	Down
CSF1R	1881.1 23038	1160.198232	2602.047845	2.2427 6143	1.165276 164	0.00 0607	0.00 8926	Up
CSF2RB	2871.0 42216	1818.177462	3923.906971	2.1581 54005	1.109797 818	0.02 0253	0.12 2523	Up
CSF3	138.32 67334	88.60802848	188.0454383	2.1222 16705	1.085571 981	0.01 1309	0.08 0515	Up
CSGALNA CT2	884.14 07857	1193.751272	574.5302993	0.4812 81413	- 1.055047 386	0.03 664	0.18 4991	Down
CSRP2	919.27 7265	1464.35242	374.2021104	0.2555 4102	- 1.968373 203	0.00 0474	0.00 7428	Down
CST3	20256. 59191	34903.7158	5609.468014	0.1607 12631	- 2.637444 771	0.01 0122	0.07 4426	Down
CST6	300.28	401.9107869	198.6546443	0.4942	-	0.04	0.22	Down

	27156			75473	1.016612 776	9257	5939	n
CST7	113.65 75789	39.79356874	187.521589	4.7123 59181	2.236449 507	3.58 E-06	0.00 0123	Up
CTGF	21144. 73142	40246.6186	2042.844242	0.0507 58158	- 4.300216 463	0.00 5961	0.05 0669	Down
CTHRC1	849.75 58697	1602.989314	96.52242587	0.0602 14017	- 4.053756 823	0.00 5112	0.04 5358	Down
CTSL	60.667 04518	88.48021753	32.85387283	0.3713 13201	- 1.429291 486	0.01 5636	0.10 178	Down
CTSO	495.45 5732	323.986764	666.9247	2.0584 93661	1.041589 006	0.00 3964	0.03 7128	Up
CTSW	862.48 30643	257.3054488	1467.66068	5.7039 62689	2.511964 545	1.92 E-11	2.32 E-09	Up
CTXN1	49.382 01102	24.18568345	74.57833859	3.0835 7375	1.624603 352	0.00 497	0.04 4446	Up
CX3CL1	2072.4 14192	676.0664463	3468.761938	5.1308 00319	2.359183 88	3.97 E-11	4.42 E-09	Up
CX3CR1	1072.7 55656	280.0430365	1865.468277	6.6613 62839	2.735817 366	4.38 E-09	3.29 E-07	Up
CXADR	271.16 98317	84.29240096	458.0472624	5.4340 27945	2.442021 985	1.22 E-06	4.78 E-05	Up
CXCL10	319.78 73379	80.56203279	559.012643	6.9389 09355	2.794708 92	0.00 0243	0.00 4287	Up
CXCL13	87.278 3632	3.667382879	170.8893435	46.597 08275	5.542167 732	0.00 0608	0.00 8937	Up
CXCL17	66.106 05299	31.24325209	100.9688539	3.2317 01156	1.692293 794	0.00 2178	0.02 3859	Up
CXCL9	116.04 47909	28.22465743	203.8649243	7.2229 37066	2.852585 6	0.01 3867	0.09 3903	Up
CXCR3	38.558 17197	13.6397616	63.47658233	4.6537 8972	2.218406 025	0.00 0717	0.01 0152	Up
CXCR4	554.30 36843	342.4390367	766.1683318	2.2373 86073	1.161814 223	0.00 1574	0.01 8712	Up
CXCR6	216.60 68978	89.19665456	344.017141	3.8568 39056	1.947418 944	2.49 E-05	0.00 0651	Up
CXHXorf36	760.90 06996	1190.537721	331.2636779	0.2782 47108	- 1.845561 402	2.78 E-07	1.30 E-05	Down
CYB561	1396.3 24203	543.9463763	2248.702029	4.1340 50941	2.047556 166	1.66 E-07	8.10 E-06	Up

CYBB	758.02 84762	442.6782884	1073.378664	2.4247 3754	1.277828 594	0.00 8064	0.06 344	Up
CYP11A1	1253.4 6748	53.7655859	2453.169375	45.627 12995	5.511820 003	3.28 E-38	3.08 E-34	Up
CYP1B1	80.570 30883	39.41793288	121.7226848	3.0880 02741	1.626674 033	0.00 1062	0.01 3874	Up
CYP24A1	53.682 77778	6.529141834	100.8364137	15.444 05319	3.948979 523	1.89 E-09	1.56 E-07	Up
CYP27B1	35.253 6303	19.38981965	51.11744095	2.6363 03064	1.398516 229	0.03 4067	0.17 6461	Up
CYP27C1	13.706 88561	0.805623925	26.6081473	33.028 00038	5.045617 722	1.00 E-04	0.00 2066	Up
CYP2B6	60.841 63223	18.6536309	103.0296336	5.5233 01824	2.465530 967	0.00 098	0.01 3047	Up
CYP2S1	215.76 73256	71.61279823	359.9218529	5.0259 43152	2.329394 353	6.60 E-08	3.53 E-06	Up
CYP46A1	4.8533 11951	9.175174875	0.531449026	0.0579 22496	- 4.109732 428	0.03 6366	0.18 403	Down
CYP4F2	10.868 60016	2.003054751	19.73414558	9.8520 25046	3.300420 295	0.00 8505	0.06 5816	Up
CYR61	13383. 95867	25362.83134	1405.085998	0.0553 99414	- 4.173985 469	0.03 4283	0.17 7334	Down
DAAM2	1775.9 56729	2727.575169	824.3382878	0.3022 23857	- 1.726310 546	8.87 E-07	3.61 E-05	Down
DAB2	2604.7 67566	4604.306374	605.228759	0.1314 48412	- 2.927431 387	0.00 0668	0.00 9607	Down
DACT1	831.37 22656	1274.935047	387.809484	0.3041 79797	- 1.717003 759	0.00 1925	0.02 165	Down
DACT2	263.93 03509	484.4725111	43.38819066	0.0895 5759	- 3.481040 479	1.25 E-10	1.29 E-08	Down
DAGLA	864.20 32523	443.775845	1284.63066	2.8947 73733	1.533450 586	2.35 E-05	0.00 062	Up
DAO	10.596 91325	1.981044628	19.21278188	9.6983 08465	3.277733 141	0.01 0942	0.07 8801	Up
DAPP1	165.10 36903	73.42435846	256.7830222	3.4972 45704	1.806219 158	2.79 E-05	0.00 0714	Up
DAW1	6.4376 07294	0.805623925	12.06959066	14.981 6686	3.905126 409	0.02 4682	0.14 1132	Up

DBNDD1	98.701 61896	36.65683395	160.746404	4.3851 68785	2.132632 373	1.41 E-05	0.00 0394	Up
DBX2	31.566 70148	16.60202588	46.53137707	2.8027 52953	1.486844 585	0.03 5942	0.18 2423	Up
DCBLD2	1316.2 15181	1897.133374	735.2969893	0.3875 83182	- 1.367422 125	0.00 0532	0.00 8088	Down
DCHS2	208.57 9257	43.91474414	373.2437698	8.4992 81441	3.087340 876	2.65 E-12	3.53 E-10	Up
DCLK1	2125.8 2623	3743.671532	507.9809285	0.1356 90571	- 2.881607 62	0.00 3493	0.03 4039	Down
DCN	81097. 66115	140170.6098	22024.71246	0.1571 27892	- 2.669988 795	0.02 9415	0.15 922	Down
DCUN1D3	693.04 83783	942.4898547	443.6069018	0.4706 75519	- 1.087195 277	0.01 2681	0.08 754	Down
DDAH1	654.01 93557	876.7783524	431.260359	0.4918 69305	- 1.023653 068	0.01 4887	0.09 8688	Down
DDAH2	2268.2 37039	3114.823821	1421.650258	0.4564 1434	- 1.131583 976	0.00 3886	0.03 6647	Down
DDC	311.60 10082	78.67452919	544.5274873	6.9212 67822	2.791036 332	0.00 7194	0.05 8103	Up
DDR1	5851.3 11314	2027.479865	9675.142764	4.7720 04365	2.254595 363	2.57 E-10	2.52 E-08	Up
DDR2	5405.1 2714	7559.163858	3251.090422	0.4300 85983	- 1.217302 98	0.00 0522	0.00 7978	Down
DDX11	513.66 71041	340.9695284	686.3646797	2.0129 79526	1.009332 499	0.00 6841	0.05 5977	Up
DEF6	200.22 79414	120.5007087	279.9551742	2.3232 65789	1.216154 212	0.00 2898	0.02 9673	Up
DEFB4A	12.182 87209	1.219440949	23.14630324	18.981 07756	4.246489 991	0.00 0846	0.01 1625	Up
DEFB5	24.943 4989	0.854174188	49.0328236	57.403 77585	5.843073 731	3.34 E-08	1.93 E-06	Up
DEGS2	159.95 46763	10.60517177	309.3041807	29.165 40981	4.866186 441	8.41 E-21	4.77 E-18	Up
DENND1C	356.81 14315	229.959875	483.6629879	2.1032 49482	1.072619 989	0.00 7008	0.05 6953	Up
DENND2A	717.22	1182.764988	251.6892457	0.2127	-	2.89	1.33	Down

	71168			97342	2.232447 964	E-07	E-05	n
DENND4A	739.89 27612	992.9941514	486.791371	0.4902 25819	- 1.028481 626	0.00 6147	0.05 1736	Dow n
DEPDC7	141.05 74649	77.81549442	204.2994355	2.6254 3388	1.392555 863	0.00 176	0.02 0266	Up
DERL3	189.58 05636	89.31834621	289.842781	3.2450 53153	1.698242 109	5.56 E-05	0.00 1284	Up
DES	90031. 28332	167017.2063	13045.36033	0.0781 07883	- 3.678388 04	0.01 9596	0.11 9708	Dow n
DFNB31	166.34 75314	69.47281418	263.2222486	3.7888 52542	1.921760 993	1.01 E-05	0.00 03	Up
DFNB59	43.424 2697	66.52475074	20.32378865	0.3055 07175	- 1.710721 833	0.03 5248	0.18 0824	Dow n
DGAT2	548.16 37308	1070.304731	26.02273038	0.0243 13384	- 5.362105 459	0.00 1064	0.01 3886	Dow n
DGKG	159.27 72077	294.2600775	24.29433778	0.0825 60767	- 3.598399 811	0.01 7722	0.11 1832	Dow n
DGKH	131.93 48148	184.1016689	79.76796078	0.4332 82117	- 1.206621 403	0.02 2177	0.13 0762	Dow n
DHRS9	32.476 29369	12.28874517	52.66384221	4.2855 34566	2.099475 173	0.00 2377	0.02 5502	Up
DIAPH2	25.148 5196	44.02640523	6.270633976	0.1424 28934	- 2.811685 837	0.00 0852	0.01 168	Dow n
DIO1	28.715 63718	7.01287929	50.41839507	7.1894 001	2.845871 394	0.04 3464	0.20 6936	Up
DIO3	73.076 0316	40.56179817	105.590265	2.6031 94873	1.380283 315	0.00 7454	0.05 9878	Up
DIRAS3	148.79 03316	80.73875373	216.8419094	2.6857 22771	1.425310 393	0.00 1915	0.02 1594	Up
DKK1	196.13 06136	53.82337207	338.437855	6.2879 34813	2.652586 261	1.75 E-09	1.47 E-07	Up
DKK3	2808.4 11998	4316.506717	1300.317278	0.3012 42964	- 1.731000 549	0.04 566	0.21 4553	Dow n
DLC1	1332.1 80297	2221.603234	442.757359	0.1992 96324	- 2.327012	2.19 E-09	1.76 E-07	Dow n

					992			
DLK1	258.65 01985	102.4376821	414.8627149	4.0499 03379	2.017887 489	0.00 1155	0.01 477	Up
DLK2	404.75 91666	146.5937429	662.9245902	4.5221 88852	2.177021 242	5.58 E-06	0.00 0183	Up
DLL3	9.6716 62374	2.078145153	17.2651796	8.3079 7578	3.054497 01	0.01 8452	0.11 5082	Up
DLL4	833.39 90992	1122.20553	544.5926682	0.4852 87814	- 1.043087 463	0.00 3844	0.03 6355	Down
DMGDH	538.70 88173	58.52490019	1018.892734	17.409 55954	4.121807 798	2.97 E-11	3.42 E-09	Up
DMP1	30.687 63687	3.24903584	58.1262379	17.890 3037	4.161105 973	5.76 E-07	2.49 E-05	Up
DMPK	5312.9 80359	9391.1501	1234.810619	0.1314 86624	- 2.927012 055	0.01 8885	0.11 6857	Down
DMRT2	598.73 39124	879.7427879	317.7250369	0.3611 5674	- 1.469303 002	0.01 5156	0.09 9836	Down
DMRTA1	36.972 0275	5.181530205	68.76252479	13.270 69844	3.730172 397	5.83 E-07	2.52 E-05	Up
DMTN	68.768 32157	101.2088346	36.32780854	0.3589 39105	- 1.478188 986	0.00 3879	0.03 6605	Down
DMXL2	295.77 2327	446.3971915	145.1474625	0.3251 53171	- 1.620808 6	3.68 E-05	0.00 0906	Down
DNAAF3	70.441 93304	14.00438841	126.8794777	9.0599 79912	3.179507 851	2.27 E-08	1.37 E-06	Up
DNAH1	182.28 90042	277.7160588	86.86194957	0.3127 72513	- 1.676814 364	0.00 1948	0.02 1854	Down
DNAH10	29.726 1041	8.668787341	50.78342086	5.8581 92024	2.550455 484	0.00 0574	0.00 8582	Up
DNAH5	36.262 20828	12.37566045	60.14875612	4.8602 46154	2.281029 383	0.00 0754	0.01 0621	Up
DNAH7	42.522 973	15.761927	69.28401899	4.3956 56634	2.136078 695	0.00 0709	0.01 0092	Up
DNAJB13	7.7024 08991	1.272521227	14.13229675	11.105 74539	3.473234 321	0.02 1218	0.12 7025	Up
DNAJB4	1780.5 33134	3120.286777	440.7794913	0.1412 62494	- 2.823549 625	0.03 3729	0.17 4906	Down

DNAJB5	417.27 3273	687.7085466	146.8379994	0.2135 17776	- 2.227571 912	0.04 0069	0.19 5971	Dow n
DNAJB9	928.41 32997	1246.039392	610.7872076	0.4901 82904	- 1.028607 926	0.00 3284	0.03 254	Dow n
DNAJC6	258.12 98365	51.19983442	465.0598386	9.0832 29349	3.183205 308	1.57 E-13	2.66 E-11	Up
DNAL4	114.85 18018	75.58424893	154.1193547	2.0390 40632	1.027890 524	0.02 5212	0.14 3124	Up
DNER	172.60 24471	95.15764946	250.0472446	2.6277 15649	1.393809 167	0.01 7177	0.10 9115	Up
DNM3	238.67 43634	351.0705551	126.2781716	0.3596 94568	- 1.475155 723	0.00 0228	0.00 4078	Dow n
DOCK11	400.85 50095	540.3639103	261.3461088	0.4836 48341	- 1.047969 645	0.00 5395	0.04 7109	Dow n
DOCK2	386.29 58766	228.3428464	544.2489068	2.3834 72552	1.253065 011	0.00 0717	0.01 0152	Up
DOCK3	222.52 06209	129.1366608	315.904581	2.4462 81165	1.290590 231	0.00 1407	0.01 7231	Up
DOCK5	643.22 03267	369.8403268	916.6003267	2.4783 67718	1.309390 257	0.00 0305	0.00 5144	Up
DOCK9	2737.6 76399	3716.848987	1758.50381	0.4731 1683	- 1.079731 613	0.00 1724	0.01 9974	Dow n
DOK6	219.59 41551	330.4454709	108.7428393	0.3290 79527	- 1.603491 82	0.00 0144	0.00 2782	Dow n
DPT	4857.9 22138	8446.90463	1268.939647	0.1502 25402	- 2.734799 308	0.00 1739	0.02 0122	Dow n
DPY19L2	47.309 43755	80.76127827	13.85759683	0.1715 87141	- 2.542986 657	0.04 8594	0.22 4543	Dow n
DRC1	35.464 53256	6.190415211	64.73864991	10.457 88492	3.386519 195	3.60 E-06	0.00 0123	Up
DRP2	19.230 26294	32.39663352	6.063892355	0.1871 7662	- 2.417527 855	0.00 6047	0.05 1131	Dow n
DSCAML1	19.109 85265	5.6613776	32.5583277	5.7509 54979	2.523801 544	0.00 5275	0.04 6307	Up
DSE	889.85	1309.442435	470.2643591	0.3591	-	0.00	0.00	Dow

	3397			33282	1.477408 737	026	4534	n
DSEL	1061.1 3355	1669.951259	452.3158417	0.2708 55715	- 1.884403 565	0.03 9367	0.19 3843	Dow n
DSG2	1319.9 56959	367.5761275	2272.33779	6.1819 51493	2.628062 334	1.79 E-12	2.46 E-10	Up
DSG3	234.08 22823	68.75103927	399.4135254	5.8095 63457	2.538429 761	3.13 E-08	1.83 E-06	Up
DSP	8156.3 41767	2218.340475	14094.34306	6.3535 52676	2.667563 52	1.48 E-13	2.53 E-11	Up
DST	10009. 78235	13374.68242	6644.882283	0.4968 25426	- 1.009189 088	0.02 6846	0.14 9275	Dow n
DSTN	11434. 68114	19152.28422	3717.078068	0.1940 80143	- 2.365275 573	0.03 1568	0.16 709	Dow n
DTL	153.12 20094	208.8871342	97.35688457	0.4660 74107	- 1.101368 729	0.02 1688	0.12 9	Dow n
DTNB	904.49 69355	597.1388789	1211.854992	2.0294 35756	1.021078 671	0.01 345	0.09 172	Up
DTWD2	38.056 81736	57.54994657	18.56368814	0.3225 66557	- 1.632331 222	0.01 2885	0.08 8645	Dow n
DUOX1	29.015 41139	5.551326982	52.47949581	9.4535 04717	3.240849 282	4.94 E-05	0.00 1156	Up
DUOXA1	13.210 41665	1.223970965	25.19686234	20.586 16018	4.363602 852	0.00 0446	0.00 7071	Up
DUPD1	9.0400 92468	0	18.08018494	Inf	Inf	0.03 0711	0.16 3844	Up
DUS1L	1538.8 66689	1007.512234	2070.221143	2.0547 85116	1.038987 529	0.00 3265	0.03 2441	Up
DUSP22	246.33 48557	156.4071531	336.2625584	2.1499 18029	1.104281 655	0.00 5967	0.05 0673	Up
DUSP8	119.56 61297	175.7802793	63.35197999	0.3604 04365	- 1.472311 609	0.00 1354	0.01 6719	Dow n
DYNC1LI2	1228.5 4589	1681.878533	775.2132458	0.4609 21066	- 1.117408 39	0.00 169	0.01 9652	Dow n
DYNLRB2	32.888 23339	17.63340627	48.14306051	2.7302 18981	1.449016 669	0.03 0265	0.16 237	Up
DYRK3	279.56	407.9305465	151.2039733	0.3706	-	0.02	0.12	Dow

	72599			61071	1.431827 491	1159	6821	n
DZIP1	1231.8 10333	1806.964155	656.6565113	0.3634 03175	- 1.460357 07	0.02 5042	0.14 2453	Dow n
EAF2	41.875 39339	19.06404312	64.68674367	3.3931 28271	1.762615 97	0.00 4979	0.04 4485	Up
EBF1	1117.1 25635	1802.676311	431.5749581	0.2394 07904	- 2.062457 309	1.14 E-08	7.63 E-07	Dow n
EBF2	294.56 54503	531.0853824	58.04551813	0.1092 96019	- 3.193687 24	0.03 4898	0.17 9686	Dow n
ECE2	484.62 10726	675.4093893	293.8327558	0.4350 43931	- 1.200767 002	0.03 7478	0.18 7364	Dow n
ECEL1	16.676 04241	32.82063579	0.531449026	0.0161 92527	- 5.948528 053	0.00 0877	0.01 1908	Dow n
ECM1	6331.7 52344	11486.23037	1177.27432	0.1024 94403	- 3.286382 971	0.00 9793	0.07 2869	Dow n
ECM2	9214.7 42042	15659.61093	2769.873157	0.1768 80075	- 2.499156 552	0.00 1324	0.01 6447	Dow n
ECSCR	1185.7 24474	1652.562162	718.8867863	0.4350 13461	- 1.200868 05	0.01 1642	0.08 2269	Dow n
EDAR	364.12 47966	47.50105081	680.7485424	14.331 23122	3.841090 654	3.12 E-19	1.35 E-16	Up
EDARADD	14.458 1749	4.446466666	24.46988314	5.5032 19742	2.460275 936	0.01 6769	0.10 7158	Up
EFCAB6	27.889 81089	12.50383113	43.27579066	3.4610 02488	1.791189 979	0.01 3998	0.09 4498	Up
EFEMP1	4200.0 92948	6862.126154	1538.059743	0.2241 37492	- 2.157544 106	0.00 5881	0.05 0244	Dow n
EFEMP2	2835.5 51788	4733.146777	937.9567986	0.1981 67697	- 2.335206 281	0.00 5265	0.04 624	Dow n
EFHC1	177.99 79868	117.9895013	238.0064722	2.0171 83475	1.012342 312	0.01 541	0.10 0836	Up
EFNA3	93.072 5389	20.84070145	165.3043763	7.9318 04826	2.987649 178	1.53 E-08	9.74 E-07	Up

EFNA4	363.33 86862	137.4080151	589.2693572	4.2884 64226	2.100461 086	9.71 E-08	4.99 E-06	Up
EFNB3	80.210 18488	21.80216141	138.6182084	6.3580 03032	2.668573 704	5.40 E-07	2.36 E-05	Up
EGFL7	1258.2 93027	1889.481124	627.1049307	0.3318 92668	- 1.591211 338	5.07 E-06	0.00 0168	Down
EHD2	9396.1 50247	13812.05953	4980.24096	0.3605 7193	- 1.471641 007	1.49 E-05	0.00 0413	Down
EHD4	627.37 70593	917.6520181	337.1021005	0.3673 52868	- 1.444761 558	5.70 E-05	0.00 131	Down
EHF	12999. 16307	6910.047875	19088.27826	2.7623 94502	1.465919 368	0.01 6994	0.10 8181	Up
EHMT2	2499.9 39212	1652.497452	3347.380971	2.0256 49702	1.018384 709	0.00 3013	0.03 064	Up
EID3	83.630 53377	118.2997388	48.96132878	0.4138 75206	- 1.272732 27	0.01 0252	0.07 5145	Down
EIF4EBP2	815.42 59334	1117.630086	513.2217808	0.4592 05409	- 1.122788 459	0.00 1559	0.01 8562	Down
ELF3	1150.1 54975	1583.59341	716.716539	0.4525 88735	- 1.143727 417	0.00 1911	0.02 1588	Down
ELF4	1796.9 06138	2533.737176	1060.0751	0.4183 84002	- 1.257100 406	0.00 0348	0.00 5775	Down
ELFN2	274.70 85897	135.1541699	414.2630094	3.0651 14526	1.615940 98	5.21 E-05	0.00 1211	Up
ELL3	68.595 76824	38.93209969	98.2594368	2.5238 66875	1.335635 816	0.01 2646	0.08 7332	Up
ELMO3	1517.4 26545	367.3854276	2667.467662	7.2606 79008	2.860104 473	1.61 E-14	3.28 E-12	Up
ELN	70263. 74576	134678.0967	5849.394777	0.0434 32413	- 4.525084 068	0.01 2192	0.08 5064	Down
ELOVL5	665.64 26426	120.0275454	1211.25774	10.091 49804	3.335068 448	1.68 E-17	5.09 E-15	Up
ELTD1	1587.4 71836	2263.485656	911.458016	0.4026 78945	- 1.312298 055	0.00 5965	0.05 0673	Down
EMB	377.60	133.4869974	621.7229661	4.6575	2.219572	0.00	0.03	Up

	49818			54504	652	3064	0974	
EMID1	676.16 13331	375.9478546	976.3748116	2.5971 01698	1.376902 509	0.00 0182	0.00 3415	Up
EMILIN2	1668.6 04227	2841.812407	495.3960468	0.1743 23979	- 2.520157 062	1.49 E-07	7.35 E-06	Down
EML1	391.06 18051	654.7999323	127.3236779	0.1944 46688	- 2.362553 435	3.03 E-06	0.00 0106	Down
EML5	410.86 70644	262.0310536	559.7030752	2.1360 18107	1.094923 877	0.00 3734	0.03 5661	Up
EMP1	8092.3 35441	13854.96661	2329.704275	0.1681 49397	- 2.572184 493	4.14 E-06	0.00 014	Down
EMP3	1755.5 97092	2730.593624	780.6005612	0.2858 7211	- 1.806558 218	0.00 0192	0.00 3563	Down
EMX2	356.90 91521	669.3842308	44.43407343	0.0663 8052	- 3.913096 255	0.01 292	0.08 8817	Down
EN1	90.409 36588	161.9552723	18.86345942	0.1164 73265	- 3.101929 249	0.02 0757	0.12 4987	Down
ENPP1	8008.7 87127	15245.92685	771.6474019	0.0506 13348	- 4.304338 279	0.00 6996	0.05 6905	Down
ENPP3	210.72 26443	31.2573274	390.1879612	12.483 08777	3.641902 932	1.28 E-15	3.18 E-13	Up
ENPP5	939.74 44179	431.1425891	1448.346247	3.3593 20753	1.748169 553	0.00 1477	0.01 7875	Up
ENTPD2	2355.8 06832	761.2360951	3950.37757	5.1894 24931	2.375574 674	1.60 E-11	1.96 E-09	Up
ENTPD3	44.586 99921	14.49281058	74.68118785	5.1529 81712	2.365407 472	0.00 0209	0.00 3838	Up
ENTPD5	189.74 27713	269.6711671	109.8143755	0.4072 15857	- 1.296134 353	0.00 1683	0.01 9602	Down
EPAS1	2476.5 85754	3640.686522	1312.484987	0.3605 04806	- 1.471909 604	0.00 2413	0.02 5789	Down
EPCAM	3396.5 31039	845.4072779	5947.654801	7.0352 53843	2.814602 479	1.46 E-14	3.02 E-12	Up
EPDR1	531.26 02285	955.2341999	107.286257	0.1123 14087	- 3.154389	0.00 0848	0.01 164	Down

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EPHA1	518.64 20614	135.2999542	901.9841685	6.6665 51914	2.736940 761	2.51 E-12	3.40 E-10	Up
EPHA3	258.79 27876	478.0418089	39.54376621	0.0827 20309	- 3.595614 613	2.62 E-06	9.44 E-05	Down
EPHA7	361.14 98489	165.4617907	556.837907	3.3653 56465	1.750759 326	8.79 E-06	0.00 0268	Up
EPHB1	89.385 52546	137.2148518	41.5561991	0.3028 54965	- 1.723301 033	0.03 369	0.17 4754	Down
EPHB6	1373.5 43679	92.29085405	2654.796504	28.765 54271	4.846269 784	1.70 E-32	6.18 E-29	Up
EPHX1	1562.2 74282	971.4174042	2153.13116	2.2164 84027	1.148272 966	0.00 1062	0.01 3874	Up
EPN3	246.46 13454	104.6109999	388.3116909	3.7119 58504	1.892180 583	4.44 E-06	0.00 0149	Up
EPPK1	301.92 33379	156.8496351	446.9970407	2.8498 44313	1.510883 107	0.00 0124	0.00 2466	Up
EPS8L1	740.26 94131	172.0565068	1308.482319	7.6049 56905	2.926940 073	3.72 E-14	6.89 E-12	Up
EPS8L2	471.98 56433	278.9562459	665.0150406	2.3839 40315	1.253348 116	0.00 0885	0.01 1998	Up
EQTN	37.278 8715	19.4372447	55.1204983	2.8358 1851	1.503765 204	0.02 1919	0.12 9892	Up
ERBB2	4288.2 93219	1924.367421	6652.219018	3.4568 34151	1.789451 389	3.42 E-07	1.55 E-05	Up
ERBB3	4529.3 76616	980.5247807	8078.228452	8.2386 78522	3.042412 949	2.04 E-13	3.42 E-11	Up
ERBB4	93.095 25796	29.37225808	156.8182578	5.3389 92235	2.416567 451	7.00 E-05	0.00 1556	Up
EREG	34.324 26275	3.764483404	64.8840421	17.235 84225	4.107339 894	1.68 E-07	8.16 E-06	Up
ERG	957.01 40219	1325.530107	588.4979363	0.4439 71761	- 1.171460 178	0.00 0875	0.01 1906	Down
ERICH3	154.25 99286	207.0974674	101.4223898	0.4897 32642	- 1.029933 737	0.01 6764	0.10 7158	Down
ERN2	85.603 97728	10.96201845	160.2459361	14.618 28739	3.869702 397	0.00 2479	0.02 626	Up
ESM1	174.60 79125	108.0123415	241.2034835	2.2331 10404	1.159054 579	0.00 7514	0.06 0308	Up
ESRP1	949.35	461.3589217	1437.353124	3.1154	1.639453	0.00	0.04	Up

	60227			77032	081	4911	3988	
ESRP2	1355.2 41815	537.4714427	2173.012188	4.0430 28178	2.015436 258	1.56 E-05	0.00 043	Up
ESRRB	202.96 23864	38.62155284	367.30322	9.5103 17247	3.249493 468	7.01 E-13	1.08 E-10	Up
ESRRG	409.95 07708	124.2364016	695.66514	5.5995 27443	2.485305 08	4.32 E-07	1.92 E-05	Up
ESYT3	18.245 12007	4.397916403	32.09232374	7.2971 65476	2.867336 17	0.00 2558	0.02 6933	Up
ETNK2	600.07 08625	218.2539582	981.8877667	4.4988 31428	2.169550 31	1.21 E-08	7.98 E-07	Up
ETV4	264.30 31233	116.6621055	411.9441411	3.5310 87832	1.820112 707	4.59 E-06	0.00 0153	Up
ETV5	591.69 1093	295.7137481	887.668438	3.0017 82784	1.585819 584	1.78 E-05	0.00 0486	Up
EVA1C	265.87 88142	170.0373906	361.7202378	2.1272 98217	1.089022 293	0.00 5908	0.05 0418	Up
EVC	567.25 56412	766.9846264	367.5266559	0.4791 83863	- 1.061348 771	0.00 7127	0.05 7583	Down
EXOC3L4	127.90 10316	38.58303313	217.21903	5.6299 10672	2.493112 032	1.28 E-07	6.35 E-06	Up
EXTL2	294.57 77931	426.5931076	162.5624787	0.3810 71508	- 1.391866 351	0.02 1302	0.12 7255	Down
EYA2	220.31 43675	58.47048967	382.1582453	6.5359 16622	2.708389 579	3.49 E-10	3.28 E-08	Up
EYA4	101.86 01743	44.72794315	158.9924054	3.5546 5497	1.829709 533	0.01 0551	0.07 687	Up
EZR	8718.1 7982	5546.060072	11890.29957	2.1439 18279	1.100249 915	0.00 137	0.01 688	Up
F11	8.0630 58903	1.567227603	14.5588902	9.2895 82556	3.215613 768	0.02 7391	0.15 1335	Up
F13A1	1004.7 01656	1819.286981	190.1163309	0.1045 00462	- 3.258418 768	0.01 8646	0.11 596	Down
F2RL2	617.19 82699	833.9972797	400.39926	0.4800 96602	- 1.058603 37	0.00 363	0.03 4958	Down
F8	786.71 54946	1168.641409	404.7895802	0.3463 76208	- 1.529588 256	2.06 E-05	0.00 0553	Down
FABP4	5441.2 61694	10153.16107	729.3623154	0.0718 35984	- 3.799149	0.02 9462	0.15 9382	Down

					493			
FADS1	694.81 01472	1165.295049	224.3252456	0.1925 05105	- 2.377031 391	0.01 3217	0.09 0312	Dow n
FAIM	257.29 07857	146.5679603	368.013611	2.5108 73524	1.328189 36	0.00 0866	0.01 1798	Up
FAIM2	142.51 83364	87.47264159	197.5640312	2.2585 80827	1.175416 544	0.00 9054	0.06 9063	Up
FAM102B	880.47 89986	1267.710063	493.2479338	0.3890 8576	- 1.361839 913	0.00 0164	0.00 3133	Dow n
FAM105A	2852.0 36394	4530.427579	1173.645209	0.2590 58376	- 1.948650 867	0.02 9387	0.15 9213	Dow n
FAM109B	750.35 43365	1188.318144	312.3905294	0.2628 84591	- 1.927498 513	9.01 E-05	0.00 1914	Dow n
FAM110A	399.75 79443	191.2583914	608.2574973	3.1802 91818	1.669159 151	2.87 E-05	0.00 0732	Up
FAM110D	272.91 00228	397.6482228	148.1718228	0.3726 20357	- 1.424221 601	0.00 7046	0.05 7205	Dow n
FAM114A1	2163.4 61364	3034.598673	1292.324056	0.4258 63251	- 1.231537 855	0.00 0451	0.00 7112	Dow n
FAM115C	252.97 42562	157.3317038	348.6168085	2.2158 07749	1.147832 714	0.00 3664	0.03 518	Up
FAM124A	23.520 57292	40.0159204	7.025225435	0.1755 60761	- 2.509957 667	0.00 1479	0.01 7875	Dow n
FAM126A	1093.8 1506	1510.431847	677.1982728	0.4483 47454	- 1.157310 89	0.00 1165	0.01 4868	Dow n
FAM131C	55.481 83213	8.795832806	102.1678315	11.615 4813	3.537977 03	2.79 E-08	1.64 E-06	Up
FAM132A	26.912 56793	6.947488873	46.87764698	6.7474 23111	2.754336 632	0.00 0501	0.00 7717	Up
FAM149A	383.12 44671	189.4122899	576.8366442	3.0454 0241	1.606632 874	2.75 E-05	0.00 0707	Up
FAM160A1	703.39 4531	417.3229049	989.4661571	2.3709 84544	1.245486 258	0.02 8094	0.15 4	Up
FAM160B1	275.36 20006	380.718216	170.0057852	0.4465 39667	- 1.163139 758	0.00 3316	0.03 2737	Dow n

FAM162B	43.585 29387	60.91082735	26.25976039	0.4311 18104	- 1.213844 948	0.03 8004	0.18 8927	Dow n
FAM163A	26.777 04588	4.103210027	49.45088174	12.051 75495	3.591171 338	1.73 E-05	0.00 0472	Up
FAM167A	68.492 22659	36.87143464	100.1130185	2.7151 91842	1.441054 135	0.00 7405	0.05 9515	Up
FAM167B	79.967 7253	114.2750531	45.66039752	0.3995 65752	- 1.323495 164	0.00 7383	0.05 9441	Dow n
FAM169A	377.52 16496	206.2657082	548.7775911	2.6605 37207	1.411717 579	0.00 8765	0.06 7312	Up
FAM171A1	1035.1 00636	1469.350849	600.8504229	0.4089 22364	- 1.290101 128	0.00 0286	0.00 4885	Dow n
FAM179A	25.520 98892	1.175420702	49.86655714	42.424 43326	5.406823 482	9.21 E-08	4.75 E-06	Up
FAM180B	227.43 21136	426.4050391	28.45918814	0.0667 42148	- 3.905258 076	0.00 1844	0.02 0993	Dow n
FAM184A	148.54 6798	38.1117605	258.9818355	6.7953 25959	2.764542 756	2.84 E-09	2.20 E-07	Up
FAM184B	89.055 36659	51.49174679	126.6189864	2.4590 15168	1.298080 634	0.00 6679	0.05 4934	Up
FAM186B	64.088 77026	34.64471916	93.53282135	2.6997 71382	1.432837 245	0.00 7836	0.06 2015	Up
FAM189A2	521.42 27295	289.1250168	753.7204422	2.6069 01507	1.382336 077	0.00 7661	0.06 1113	Up
FAM195A	347.41 22209	195.9157154	498.9087264	2.5465 4776	1.348542 775	0.00 0538	0.00 8144	Up
FAM196B	10.038 9717	20.0779434	0	0	#NAME?	0.00 0523	0.00 7986	Dow n
FAM198B	366.97 76057	539.6156502	194.3395612	0.3601 44412	- 1.473352 574	0.01 0327	0.07 56	Dow n
FAM214B	800.32 97759	1070.571405	530.0881468	0.4951 45064	- 1.014076 837	0.00 4216	0.03 9072	Dow n
FAM217A	12.824 51796	3.178475453	22.47056046	7.0696 0327	2.821629 257	0.01 1324	0.08 053	Up
FAM227A	41.316 98886	19.18768378	63.44629394	3.3066 15569	1.725355 326	0.00 5343	0.04 6767	Up
FAM26F	76.746 80583	26.5426945	126.9509172	4.7828 94863	2.257884 078	2.10 E-05	0.00 0561	Up

FAM3B	790.22 80613	60.80582116	1519.650301	24.991 85559	4.643386 117	8.66 E-07	3.54 E-05	Up
FAM43A	983.13 46179	1335.028139	631.2410965	0.4728 29806	- 1.080607 112	0.00 204	0.02 2656	Down
FAM46A	3601.1 07454	5718.807751	1483.407157	0.2593 90982	- 1.946799 773	1.42 E-07	7.03 E-06	Down
FAM46B	643.15 82806	1029.749913	256.5666484	0.2491 54329	- 2.004888 455	0.02 1222	0.12 7025	Down
FAM46C	197.34 48838	279.4408744	115.2488932	0.4124 26756	- 1.277790 167	0.00 5136	0.04 5495	Down
FAM53A	8.0695 31531	15.38872542	0.750337638	0.0487 5892	- 4.358190 007	0.01 1321	0.08 053	Down
FAM60A	691.62 7728	388.7908976	994.4645583	2.5578 39097	1.354925 513	0.00 0203	0.00 3744	Up
FAM64A	123.89 99066	176.1436554	71.65615779	0.4068 05216	- 1.297589 917	0.00 542	0.04 7171	Down
FAM69A	446.46 85409	655.3634157	237.5736661	0.3625 06757	- 1.463920 21	0.00 1179	0.01 5015	Down
FAM69B	169.00 65618	106.3492641	231.6638595	2.1783 3063	1.123222 945	0.00 8541	0.06 6013	Up
FAM73A	455.35 51537	690.5758637	220.1344437	0.3187 69385	- 1.649415 015	0.00 0835	0.01 1515	Down
FAM83B	63.046 76577	16.6099607	109.4835708	6.5914 40692	2.720593 83	3.11 E-06	0.00 0109	Up
FAM83E	6.7573 80366	0.413817024	13.10094371	31.658 7838	4.984533 929	0.00 8183	0.06 4091	Up
FAM83G	176.91 12537	85.71477243	268.107735	3.1279 05814	1.645197 072	0.00 0166	0.00 3155	Up
FAM83H	1049.2 95686	514.3055791	1584.285793	3.0804 36724	1.623134 901	9.59 E-06	0.00 0288	Up
FAM84A	557.03 25611	220.1007669	893.9643553	4.0616 13996	2.022053 136	0.00 0167	0.00 317	Up
FAM8A1	250.57 88571	364.523712	136.6340022	0.3748 28846	- 1.415696 112	0.00 0388	0.00 6297	Down
FAM98C	195.83	117.3659733	274.2974863	2.3371	1.224727	0.00	0.03	Up

	17298			12526	198	3095	1215	
FANK1	57.867 19923	21.54694527	94.1874532	4.3712 67112	2.128051 538	0.00 0179	0.00 3377	Up
FAP	676.28 00134	1167.754816	184.8052111	0.1582 56861	- 2.659660 051	0.00 4011	0.03 7473	Down
FAR2	269.23 72936	390.8995233	147.5750639	0.3775 26845	- 1.405348 859	0.03 5497	0.18 1281	Down
FASLG	81.724 19995	50.15887958	113.2895203	2.2586 13455	1.175437 386	0.01 9434	0.11 8917	Up
FAT2	941.21 264	251.4871683	1630.938112	6.4851 74265	2.697145 342	9.76 E-13	1.48 E-10	Up
FAT4	1556.4 30005	2496.535035	616.3249756	0.2468 72152	- 2.018163 993	0.00 0109	0.00 2203	Down
FBLN1	16080. 92263	22887.94076	9273.904505	0.4051 87369	- 1.303338 893	0.00 0519	0.00 7943	Down
FBLN2	10114. 77037	16681.4288	3548.11194	0.2126 98324	- 2.233119 433	0.00 2209	0.02 4118	Down
FBLN5	3151.2 60194	4474.53997	1827.980419	0.4085 29241	- 1.291488 749	0.00 763	0.06 0994	Down
FBN1	33065. 85107	60374.10968	5757.592464	0.0953 65257	- 3.390392 429	0.00 0194	0.00 3603	Down
FBN2	155.17 53211	236.5655329	73.78510927	0.3119 01351	- 1.680838 294	0.04 6305	0.21 6723	Down
FBN3	28.163 16746	10.47311103	45.85322389	4.3781 85601	2.130333 115	0.00 6905	0.05 6314	Up
FBXL6	495.72 89411	313.9484132	677.509469	2.1580 28009	1.109713 59	0.00 2699	0.02 8035	Up
FBXL7	967.31 12052	1440.115881	494.5065296	0.3433 7968	- 1.542123 429	0.00 0876	0.01 1906	Down
FBXL8	106.40 38206	150.6325923	62.17504891	0.4127 59602	- 1.276626 317	0.03 1202	0.16 5827	Down
FBXO17	153.68 44863	221.3155824	86.05339021	0.3888 26622	- 1.362801 096	0.00 1618	0.01 9006	Down

FBXO28	318.22 58527	450.3850934	186.066612	0.4131 27821	- 1.275339 879	0.00 4394	0.04 0285	Dow n
FBXO30	521.17 62254	785.2790728	257.073378	0.3273 65629	- 1.611025 236	0.00 3718	0.03 5597	Dow n
FBXW9	226.53 14699	125.5149378	327.5480021	2.6096 33626	1.383847 277	0.00 0675	0.00 9678	Up
FCER1A	51.145 73873	82.29445787	19.99701959	0.2429 93515	- 2.041010 283	0.00 5152	0.04 5561	Dow n
FCGR1A	165.31 04818	96.81511765	233.805846	2.4149 72493	1.272006 756	0.00 2645	0.02 7578	Up
FCGR2A	219.75 02573	347.0930391	92.40747543	0.2662 3258	- 1.909240 962	3.05 E-06	0.00 0107	Dow n
FCHO1	145.83 04083	72.43082867	219.229988	3.0267 49687	1.597769 369	0.00 0266	0.00 4619	Up
FER1L6	32.574 54024	15.65753161	49.49154886	3.1608 78105	1.660325 401	0.01 364	0.09 2642	Up
FERMT2	4620.3 90593	7498.596129	1742.185057	0.2323 3483	- 2.105722 646	0.00 1787	0.02 052	Dow n
FGD5	1421.5 97648	2089.836079	753.3592172	0.3604 87229	- 1.471979 945	2.59 E-05	0.00 0671	Dow n
FGF10	26.537 48204	44.294697	8.780267078	0.1982 23888	- 2.334797 259	0.04 0049	0.19 5971	Dow n
FGF12	122.14 13048	167.7167744	76.56583535	0.4565 1865	- 1.131254 297	0.01 0354	0.07 5768	Dow n
FGF16	16.982 77819	32.89508623	1.07047015	0.0325 41947	- 4.941555 623	0.00 3336	0.03 2884	Dow n
FGF18	34.660 72768	66.04334321	3.278112139	0.0496 35769	- 4.332476 041	0.03 1374	0.16 6441	Dow n
FGFR3	64.009 2234	15.07428851	112.9441583	7.4925 03424	2.905447 838	5.12 E-07	2.25 E-05	Up
FGFR4	134.59 94354	20.31667912	248.8821917	12.250 14139	3.614726 495	3.56 E-13	5.81 E-11	Up
FGL1	1629.5 63579	861.4742992	2397.652859	2.7831 97202	1.476743 134	0.00 0444	0.00 7046	Up

FGL2	2183.6 13941	3504.361367	862.866515	0.2462 26466	- 2.021942 255	0.04 9866	0.22 7982	Dow n
FHAD1	66.699 07059	22.66652084	110.7316203	4.8852 49973	2.288432 385	2.63 E-05	0.00 0679	Up
FHDC1	388.05 37852	534.72809	241.3794804	0.4514 06023	- 1.147502 427	0.00 284	0.02 9191	Dow n
FHL1	12549. 21655	21299.98402	3798.449073	0.1783 31076	- 2.487369 965	0.00 3769	0.03 5882	Dow n
FHL5	374.40 16559	611.8013894	137.0019224	0.2239 32022	- 2.158867 247	0.00 3779	0.03 5925	Dow n
FIBIN	166.08 79816	262.2021786	69.97378457	0.2668 69577	- 1.905793 245	0.00 9274	0.07 0092	Dow n
FIGF	747.80 36128	1427.530584	68.07664134	0.0476 88394	- 4.390217 984	0.01 3657	0.09 2694	Dow n
FILIP1	1300.9 5	1818.131022	783.7689786	0.4310 84982	- 1.213955 792	0.00 069	0.00 9871	Dow n
FILIP1L	4097.2 8527	7114.26388	1080.30666	0.1518 508	- 2.719273 588	0.00 3546	0.03 4389	Dow n
FKBP10	3325.1 37794	5567.678905	1082.596682	0.1944 43089	- 2.362580 14	0.00 0448	0.00 7092	Dow n
FKBP14	1057.3 43175	1668.115394	446.5709557	0.2677 0987	- 1.901257 764	1.27 E-07	6.30 E-06	Dow n
FKBP4	5330.5 77722	3368.068262	7293.087183	2.1653 62046	1.114608 262	0.00 1087	0.01 4118	Up
FKBP7	1134.0 13536	1928.22786	339.7992124	0.1762 23578	- 2.504521 132	0.00 225	0.02 4459	Dow n
FKBP9	4737.9 34936	6728.22109	2747.648782	0.4083 76708	- 1.292027 51	0.00 4906	0.04 3967	Dow n
FKTN	75.658 52763	112.1449237	39.17213155	0.3492 99195	- 1.517464 778	0.00 3493	0.03 4039	Dow n
FLNC	12234.	21971.65109	2497.14185	0.1136	-	0.02	0.13	Dow

	39647			52899	3.137293 606	3621	6923	n
FLRT2	2132.9 93935	3317.253504	948.7343654	0.2859 99959	- 1.805913 156	0.00 0298	0.00 5052	Dow n
FLT4	962.25 39518	1581.372012	343.1358919	0.2169 86193	- 2.204324 852	0.00 0102	0.00 2095	Dow n
FMO1	99.103 11768	9.091024443	189.1152109	20.802 40924	4.378678 72	7.67 E-15	1.68 E-12	Up
FMO2	12.080 09262	3.394686627	20.76549862	6.1170 5907	2.612838 208	0.01 8828	0.11 6626	Up
FMO4	823.03 90544	306.2555208	1339.822588	4.3748 52033	2.129234 223	5.91 E-09	4.26 E-07	Up
FMO5	1687.1 04337	823.5818213	2550.626853	3.0969 92657	1.630867 963	0.00 9547	0.07 1565	Up
FMOD	12503. 54574	20220.09005	4787.001435	0.2367 44813	- 2.078595 279	0.02 1068	0.12 6391	Dow n
FN1	114508 .6026	210369.7843	18647.42099	0.0886 41157	- 3.495879 484	0.00 558	0.04 8125	Dow n
FNDC3B	3389.8 72329	4890.07216	1889.672497	0.3864 30391	- 1.371719 535	8.89 E-05	0.00 1896	Dow n
FOLH1B	2430.6 96852	1366.294033	3495.099672	2.5580 87489	1.355065 607	0.00 0559	0.00 8385	Up
FOSL2	5945.4 11011	9036.611539	2854.210482	0.3158 49638	- 1.662690 177	0.00 0758	0.01 0646	Dow n
FOXA1	119.72 28185	15.65917125	223.7864657	14.291 07979	3.837043 021	1.36 E-13	2.39 E-11	Up
FOXA3	59.708 17735	6.836798302	112.5795564	16.466 70729	4.041480 195	3.56 E-08	2.03 E-06	Up
FOXF1	114.51 0605	168.3365881	60.68462186	0.3604 95734	- 1.471945 909	0.00 1286	0.01 6067	Dow n
FOX11	388.62 51826	45.93819853	731.3121667	15.919 47856	3.992721 176	9.60 E-21	5.28 E-18	Up
FOXJ1	122.40 8303	6.410031185	238.4065748	37.192 73245	5.216948 837	6.50 E-20	3.28 E-17	Up
FOXN1	16.797 29376	4.485956897	29.10863062	6.4888 34219	2.697959 308	0.00 5189	0.04 575	Up
FOXN2	256.65	412.3766402	100.9385655	0.2447	-	5.62	2.44	Dow

	76029			72753	2.030485 122	E-07	E-05	n
FOXP2	78.271 61367	141.2625473	15.28068004	0.1081 72197	- 3.208598 363	0.01 5164	0.09 9836	Dow n
FOXP3	75.541 09749	45.24211081	105.8400842	2.3394 15254	1.226147 968	0.01 6359	0.10 5503	Up
FOXP4	2543.5 8526	1299.21367	3787.95685	2.9155 76505	1.543781 18	1.21 E-05	0.00 035	Up
FREM1	284.45 29973	108.5531828	460.3528118	4.2408 04369	2.084337 932	4.29 E-07	1.91 E-05	Up
FRK	220.81 92004	98.20565346	343.4327474	3.4970 77157	1.806149 627	1.51 E-05	0.00 0418	Up
FRMD4A	872.78 76652	1291.353604	454.2217259	0.3517 40781	- 1.507415 482	2.82 E-05	0.00 072	Dow n
FRMPD1	54.510 26141	18.84217672	90.1783461	4.7859 83459	2.258815 411	0.00 0155	0.00 2976	Up
FRRS1	410.75 3876	78.31282193	743.1949302	9.4900 79809	3.246420 22	1.37 E-15	3.36 E-13	Up
FRY	1825.6 72931	2697.464744	953.8811188	0.3536 21348	- 1.499722 723	0.00 1748	0.02 0169	Dow n
FRZB	10.157 91301	17.68648655	2.629339473	0.1486 63753	- 2.749875 158	0.02 3091	0.13 4848	Dow n
FSD1	23.262 96105	10.48670107	36.03922104	3.4366 59516	1.781006 925	0.02 9338	0.15 907	Up
FSD1L	113.81 11907	152.6204466	75.00193483	0.4914 2783	- 1.024948 534	0.02 7918	0.15 3475	Dow n
FST	296.60 61409	451.0654202	142.1468617	0.3151 35799	- 1.665954 442	1.87 E-05	0.00 0508	Dow n
FSTL1	23033. 94401	40263.9709	5803.91713	0.1441 46665	- 2.794390 635	3.76 E-05	0.00 0916	Dow n
FSTL3	1060.1 45195	1772.090762	348.1996275	0.1964 90854	- 2.347465 932	8.04 E-05	0.00 1736	Dow n
FUT11	282.64 36142	467.2546287	98.03259967	0.2098 05519	- 2.252875 469	1.72 E-08	1.08 E-06	Dow n
FUT2	158.49	18.61739077	298.3651206	16.026	4.002356	1.03	2.19	Up

	12557			15126	094	E-14	E-12	
FUT6	12.885 72192	4.006109502	21.76533433	5.4330 35298	2.441758 42	0.02 5211	0.14 3124	Up
FUZ	159.54 15582	71.7063101	247.3768063	3.4498 6105	1.786538 256	4.22 E-05	0.00 1012	Up
FXYD1	1540.0 61841	2516.812226	563.3114559	0.2238 19421	- 2.159592 867	0.00 5838	0.04 9979	Down
FXYD3	108.97 74712	32.56918417	185.3857582	5.6920 60238	2.508950 93	0.01 5024	0.09 9256	Up
FXYD4	338.30 01724	172.3272037	504.2731411	2.9262 53838	1.549054 921	0.00 1355	0.01 6719	Up
FXYD5	1508.1 31957	2133.651298	882.612617	0.4136 63009	- 1.273472 14	0.00 0268	0.00 4632	Down
FXYD6	7443.9 68479	3390.899967	11497.03699	3.3905 56225	1.761521 969	4.93 E-07	2.17 E-05	Up
FZD1	2853.7 66479	1628.357396	4079.175563	2.5050 86152	1.324860 22	0.00 0118	0.00 2363	Up
FZD4	1126.9 87276	1975.484091	278.4904606	0.1409 73274	- 2.826506 413	1.37 E-05	0.00 0386	Down
FZD7	1194.3 09731	457.9310001	1930.688461	4.2161 12167	2.075913 25	9.57 E-09	6.56 E-07	Up
FZD8	357.97 85213	556.0379816	159.9190611	0.2876 04564	- 1.797841 526	0.00 5403	0.04 7156	Down
G0S2	420.31 11456	743.4567384	97.16555287	0.1306 94293	- 2.935731 949	0.01 9148	0.11 7961	Down
GABRB1	8.1611 59668	15.77147229	0.550847042	0.0349 26799	- 4.839521 764	0.00 438	0.04 0218	Down
GABRP	174.21 8109	33.03058093	315.405637	9.5488 97663	3.255334 196	1.43 E-07	7.04 E-06	Up
GAD2	5.8823 01172	0	11.76460234	Inf	Inf	0.00 4493	0.04 0932	Up
GADD45A	553.68 94378	776.5279833	330.8508922	0.4260 64352	- 1.230856 745	0.00 2179	0.02 3859	Down
GADD45B	720.49 15342	967.1085035	473.8745649	0.4899 91106	- 1.029172 533	0.00 4475	0.04 0864	Down
GADD45G	2260.3	4226.633898	294.0315735	0.0695	-	1.35	0.00	Down

	32736			66369	3.845466 168	E-05	0381	n
GADL1	77.507 51752	154.2259014	0.789133669	0.0051 16739	- 7.610559 667	0.01 1717	0.08 2669	Dow n
GAL3ST2	4.8645 86238	0.413817024	9.315355453	22.510 80769	4.492545 916	0.03 7331	0.18 7015	Up
GALC	437.96 65966	242.8771174	633.0560759	2.6064 8711	1.382106 726	0.00 0179	0.00 3365	Up
GALNT15	210.24 95343	380.3735248	40.12554379	0.1054 89844	- 3.244823 984	1.96 E-09	1.60 E-07	Dow n
GALNT16	2997.7 06124	5039.956711	955.4555365	0.1895 7614	- 2.399150 7	1.04 E-06	4.19 E-05	Dow n
GALNT5	280.64 27377	419.4738627	141.8116126	0.3380 702	- 1.564605 243	0.03 6503	0.18 4652	Dow n
GALNT6	362.45 52547	132.1734719	592.7370375	4.4845 38608	2.164959 561	2.09 E-08	1.28 E-06	Up
GALNT8	63.675 26571	4.028119626	123.3224118	30.615 37969	4.936184 67	2.70 E-13	4.46 E-11	Up
GALNT9	10.473 57381	20.38447466	0.56267296	0.0276 03015	- 5.179030 331	0.00 0234	0.00 4149	Dow n
GAPDHS	6.5965 66399	1.175420702	12.01771209	10.224 17937	3.353913 147	0.04 3242	0.20 6323	Up
GARNL3	452.22 41438	186.8310445	717.6172431	3.8409 95725	1.941480 358	5.38 E-07	2.36 E-05	Up
GARS	1891.1 42456	2586.819972	1195.46494	0.4621 36891	- 1.113607 834	0.00 1011	0.01 3357	Dow n
GAS7	1182.5 42811	1729.041296	636.0443257	0.3678 59534	- 1.442773 111	4.29 E-05	0.00 1025	Dow n
GAS8	271.42 52844	175.5540376	367.2965313	2.0922 13522	1.065030 094	0.00 6394	0.05 3272	Up
GAT	8.6383 57141	17.27671428	0	0	#NAME?	0.00 0611	0.00 8959	Dow n
GATA2	219.87 88113	346.4770031	93.28061948	0.2692 26005	- 1.893110 324	3.82 E-06	0.00 013	Dow n
GATM	471.75 42115	289.1025807	654.4058424	2.2635 7662	1.178604 141	0.00 1578	0.01 8732	Up

GCGR	121.75 40465	11.97883827	231.5292548	19.328 18939	4.272634 591	1.04 E-15	2.62 E-13	Up
GCHI	339.61 24701	463.0834684	216.1414717	0.4667 44089	- 1.099296 342	0.00 4038	0.03 767	Down
GCKR	11.869 54825	2.874709047	20.86438746	7.2579 12756	2.859554 715	0.01 241	0.08 6122	Up
GCLC	778.33 04856	473.9091048	1082.751866	2.2847 24761	1.192020 375	0.00 0812	0.01 1274	Up
GCNT2	93.018 3617	129.1521919	56.88453155	0.4404 45731	- 1.182963 825	0.01 5226	0.10 0081	Down
GCNT4	155.53 73635	210.986775	100.0879519	0.4743 80216	- 1.075884 251	0.00 9433	0.07 0961	Down
GCNT7	35.978 20891	8.056239251	63.90017858	7.9317 62772	2.987641 529	0.02 1518	0.12 8168	Up
GDF6	40.777 62092	77.39432422	4.160917611	0.0537 62568	- 4.217254 142	0.01 4889	0.09 8688	Down
GDF7	4.3593 40964	8.449171367	0.269510562	0.0318 97869	- 4.970396 143	0.02 9092	0.15 8181	Down
GEM	3362.9 24317	5751.880999	973.9676348	0.1693 30283	- 2.562088 091	0.00 4001	0.03 7408	Down
GEMIN7	372.00 89191	235.3668142	508.651024	2.1610 99158	1.111765 269	0.00 3415	0.03 3424	Up
GFI1	70.235 72099	37.94182001	102.529622	2.7022 85287	1.434179 992	0.00 6527	0.05 4037	Up
GFPT1	458.19 43463	634.7619803	281.6267123	0.4436 72937	- 1.172431 539	0.00 1701	0.01 9755	Down
GFPT2	2232.1 02997	4285.315458	178.8905362	0.0417 4501	- 4.582252 439	5.17 E-08	2.80 E-06	Down
GFRA1	275.03 54405	156.8712104	393.1996707	2.5065 12634	1.325681 506	0.00 1367	0.01 685	Up
GFRA3	121.79 67525	214.5916287	29.00187628	0.1351 4915	- 2.887375 653	1.51 E-09	1.29 E-07	Down
GFRA4	3267.9 2894	5233.133557	1302.724323	0.2489 37718	- 2.006143 26	0.01 0864	0.07 851	Down

GGT6	374.39 00544	79.79656821	668.9835407	8.3836 12926	3.067572 109	8.95 E-14	1.62 E-11	Up
GIMAP1	230.87 05575	134.6832527	327.0578623	2.4283 48408	1.279975 428	0.00 1423	0.01 7375	Up
GIMAP4	383.18 93007	203.6834852	562.6951162	2.7625 9568	1.466024 432	0.01 3387	0.09 1402	Up
GIMAP5	169.31 74815	95.68788748	242.9470756	2.5389 53278	1.344233 847	0.00 1337	0.01 6568	Up
GIMAP6	517.26 59726	262.6226373	771.9093079	2.9392 33707	1.555440 077	2.51 E-05	0.00 0653	Up
GIMAP7	1865.3 89747	985.2309958	2745.548498	2.7867 05361	1.478560 474	0.00 0106	0.00 2163	Up
GIMAP8	991.08 58236	595.7952838	1386.376363	2.3269 34101	1.218430 354	0.00 0555	0.00 834	Up
GIPC3	91.940 45988	159.7581669	24.12275284	0.1509 95428	- 2.727423 225	0.04 5143	0.21 2819	Down
GJA1	7421.9 59012	13540.71444	1303.203584	0.0962 4334	- 3.377169 48	0.03 9033	0.19 2717	Down
GJB1	128.39 1406	29.02009611	227.7627158	7.8484 48021	2.972407 399	1.08 E-09	9.68 E-08	Up
GJB3	48.597 38791	15.32044462	81.8743312	5.3441 22394	2.417953 05	0.00 0105	0.00 2153	Up
GJB4	10.259 07859	1.175420702	19.34273648	16.456 0114	4.040542 793	0.00 3458	0.03 3772	Up
GJB5	18.382 86948	6.37896103	30.38677794	4.7635 936	2.252050 337	0.01 4267	0.09 5789	Up
GJB7	8.7752 719	1.175420702	16.3751231	13.931 28696	3.800256 633	0.00 9434	0.07 0961	Up
GJC1	585.85 5893	924.3319826	247.3798035	0.2676 30903	- 1.901683 381	0.00 0395	0.00 6391	Down
GJD3	20.168 78216	36.27457234	4.062991987	0.1120 06613	- 3.158344 181	0.00 034	0.00 5667	Down
GLB1L2	77.379 03736	45.60108239	109.1569923	2.3937 36873	1.259264 575	0.01 4403	0.09 629	Up
GLI3	1510.7 77832	2130.441893	891.1137705	0.4182 76496	- 1.257471 162	0.03 2645	0.17 0944	Down
GLIPR2	1446.0 31101	2052.193174	839.8690282	0.4092 54372	- 1.288930 267	0.00 0243	0.00 4276	Down

GLP1R	179.04 30211	27.21850811	330.8675342	12.155 9761	3.603593 839	1.57 E-12	2.19 E-10	Up
GLRX5	1138.8 13317	663.2693344	1614.3573	2.4339 393	1.283293 189	0.00 0354	0.00 5856	Up
GLS	2227.9 89936	3389.924864	1066.055007	0.3144 77474	- 1.668971 416	0.00 2838	0.02 9191	Down
GLYAT	25.675 60946	50.81219781	0.539021123	0.0106 08105	- 6.558689 246	4.15 E-05	0.00 0998	Down
GMDS	1109.0 03094	706.0069891	1511.999199	2.1416 20724	1.098703 005	0.00 2215	0.02 4155	Up
GNAQ	461.93 76862	632.6548024	291.22057	0.4603 15118	- 1.119306 27	0.00 296	0.03 0174	Down
GNB4	835.33 87241	1381.056819	289.6206294	0.2097 09424	- 2.253536 402	1.17 E-05	0.00 0341	Down
GNB5	470.44 40018	719.5007252	221.3872785	0.3076 95699	- 1.700423 818	0.00 0964	0.01 2886	Down
GNG10	1915.4 36475	2567.820537	1263.052413	0.4918 77214	- 1.023629 87	0.00 3561	0.03 4491	Down
GNG11	2321.2 4391	3435.971617	1206.516203	0.3511 42657	- 1.509870 828	0.03 0084	0.16 1687	Down
GNG12	193.20 90644	296.6108305	89.80729823	0.3027 78216	- 1.723666 682	4.39 E-05	0.00 1046	Down
GNG13	20.724 1159	1.61124785	39.83698395	24.724 30542	4.627858 087	6.48 E-06	0.00 0207	Up
GNG4	24.196 78043	48.39356086	0	0	#NAME?	8.13 E-07	3.35 E-05	Down
GNMT	97.997 01611	34.46638775	161.5276445	4.6865 26643	2.228519 085	9.33 E-06	0.00 0282	Up
GOLGA7B	415.05 65976	64.71628592	765.3969093	11.826 95976	3.564007 357	9.06 E-14	1.63 E-11	Up
GOLT1B	398.86 31229	579.1103254	218.6159204	0.3775 03061	- 1.405439 753	0.00 0204	0.00 3763	Down
GPA33	189.99 4343	59.52375464	320.4649314	5.3838 15811	2.428629 054	3.35 E-08	1.93 E-06	Up
GPAT2	29.547	48.41426192	10.68166413	0.2206	-	0.00	0.02	Down

	96303			30527	2.180295 674	2276	4642	n
GPC2	35.290 60375	14.62098125	55.96022625	3.8273 9197	1.936361 658	0.00 4557	0.04 1447	Up
GPC6	52.496 27821	92.76291335	12.22964308	0.1318 37635	- 2.923165 83	0.00 0638	0.00 9263	Down
GPER1	33.432 77515	57.21462474	9.65092556	0.1686 79347	- 2.567644 75	0.00 0188	0.00 3514	Down
GPM6A	449.46 88812	810.9599931	87.97776929	0.1084 85955	- 3.204419 817	0.00 0482	0.00 753	Down
GPR1	356.95 94531	701.8348135	12.08409271	0.0172 17859	- 5.859950 449	1.49 E-06	5.76 E-05	Down
GPR110	31.096 25111	15.94594281	46.24655942	2.9002 08535	1.536156 638	0.02 7194	0.15 0518	Up
GPR133	2248.7 37863	4036.640543	460.8351826	0.1141 63047	- 3.130832 354	4.44 E-05	0.00 1052	Down
GPR137C	41.744 29996	14.52388073	68.96471919	4.7483 67222	2.247431 512	0.00 0526	0.00 8012	Up
GPR141	37.446 58665	18.45602505	56.43714825	3.0579 25426	1.612553 224	0.01 7781	0.11 2033	Up
GPR143	37.351 90609	19.48126494	55.22254724	2.8346 48951	1.503170 08	0.02 264	0.13 2925	Up
GPR146	318.56 18968	469.4879779	167.6358156	0.3570 60933	- 1.485757 8	0.00 0106	0.00 2163	Down
GPR153	1225.5 12728	1764.579464	686.4459926	0.3890 1393	- 1.362106 277	0.00 1068	0.01 3912	Down
GPR156	71.638 12492	99.68979754	43.58645231	0.4372 20793	- 1.193566 082	0.01 982	0.12 059	Down
GPR162	91.567 46767	163.6884417	19.44649362	0.1188 01874	- 3.073370 502	0.00 3161	0.03 1649	Down
GPR173	377.11 54804	565.636602	188.5943589	0.3334 19652	- 1.584588 955	0.00 0987	0.01 3115	Down
GPR174	449.56 93958	254.2806262	644.8581654	2.5360 09821	1.342560 333	0.00 8363	0.06 5166	Up

GPR31	43.045 38182	21.77838612	64.31237753	2.9530 36886	1.562199 377	0.01 3039	0.08 95	Up
GPR34	134.33 03996	78.76284992	189.8979492	2.4110 09117	1.269637 106	0.00 3554	0.03 445	Up
GPR37	334.77 01562	113.8934897	555.6468226	4.8786 53063	2.286482 892	1.29 E-08	8.31 E-07	Up
GPR39	68.640 12655	35.16697633	102.1132768	2.9036 69505	1.537877 256	0.00 4493	0.04 0932	Up
GPR63	566.01 29531	862.7619976	269.2639087	0.3120 95235	- 1.679941 763	0.01 6931	0.10 7889	Down
GPR64	49.291 04119	77.35847298	21.22360941	0.2743 54038	- 1.865889 287	0.00 1347	0.01 6665	Down
GPR65	111.88 79597	47.17235474	176.6035647	3.7437 93703	1.904500 939	0.00 6038	0.05 1077	Up
GPR87	32.866 36549	9.641586916	56.09114406	5.8176 25724	2.540430 484	0.00 0449	0.00 7098	Up
GPR97	42.969 93267	81.68495486	4.254910486	0.0520 8928	- 4.262869 694	0.00 03	0.00 5078	Down
GPR98	1603.2 14564	383.3140333	2823.115094	7.3650 18883	2.880689 224	3.46 E-06	0.00 012	Up
GPRC5A	446.63 69619	837.560971	55.71295273	0.0665 18086	- 3.910109 532	0.00 4765	0.04 2913	Down
GPRIN2	118.76 78427	41.80455831	195.731127	4.6820 52268	2.227141 04	1.23 E-05	0.00 0353	Up
GPX2	20.841 76083	2.901249186	38.78227247	13.367 43933	3.740651 224	7.14 E-05	0.00 1584	Up
GPX3	12189. 62946	23299.14176	1080.117153	0.0463 58667	- 4.431017 108	0.00 5808	0.04 9807	Down
GPX7	958.07 64203	1613.507523	302.6453176	0.1875 69821	- 2.414500 369	0.00 1232	0.01 5532	Down
GPX8	1309.9 08447	1760.497013	859.3198816	0.4881 12093	- 1.034715 6	0.01 449	0.09 6715	Down
GRAMD2	163.45 68988	263.299074	63.6147235	0.2416 06332	- 2.049269 829	0.00 0816	0.01 1314	Down
GRASP	314.55 65362	457.9983697	171.1147027	0.3736 14218	- 1.420378	0.00 2344	0.02 5225	Down

					737			
GRB7	457.45 65163	113.0300796	801.882953	7.0944 20843	2.826684 914	1.53 E-12	2.15 E-10	Up
GREB1	2327.2 61677	4087.355671	567.1676817	0.1387 61519	- 2.849320 556	0.00 2273	0.02 4629	Down
GRHL1	2445.4 94014	1214.332326	3676.655703	3.0277 17886	1.598230 785	0.00 193	0.02 1687	Up
GRHL2	1029.2 89579	303.6900778	1754.88908	5.7785 52571	2.530708 167	1.42 E-11	1.74 E-09	Up
GRHL3	131.03 13433	40.52522748	221.5374591	5.4666 55535	2.450658 471	1.94 E-07	9.30 E-06	Up
GRIA3	226.94 10796	148.7748578	305.1073014	2.0507 9881	1.036185 966	0.00 7845	0.06 2063	Up
GRIK4	34.889 58082	17.23141413	52.54774751	3.0495 31926	1.608587 82	0.01 7651	0.11 1503	Up
GRIN1	68.963 39456	39.62590783	98.30088129	2.4807 22504	1.310760 363	0.02 1514	0.12 8168	Up
GRIN3A	18.820 2954	34.35065274	3.289938057	0.0957 75125	- 3.384205 188	0.00 0218	0.00 3945	Down
GRK5	1650.5 97879	2252.752231	1048.443527	0.4654 0561	- 1.103439 494	0.00 9895	0.07 3322	Down
GRM8	22.425 50588	40.35024255	4.50076921	0.1115 42557	- 3.164333 852	0.03 2765	0.17 1523	Down
GRP	1171.3 0846	354.4035894	1988.213332	5.6100 25944	2.488007 443	1.96 E-11	2.35 E-09	Up
GSAP	418.14 23388	224.0136288	612.2710488	2.7331 86601	1.450583 959	0.00 0114	0.00 2283	Up
GSC	32.301 52943	53.69918784	10.90387102	0.2030 54673	- 2.300059 867	0.01 2244	0.08 5266	Down
GSDMC	21.153 2822	0	42.30656441	Inf	Inf	1.08 E-08	7.25 E-07	Up
GSN	58068. 40893	86859.40088	29277.41699	0.3370 66762	- 1.568893 725	0.04 9139	0.22 5793	Down
GSTA2	4.8360 08559	9.672017117	0	0	#NAME?	0.00 4966	0.04 4437	Down
GSTT1	1318.3 46	602.5236834	2034.168317	3.3760 80266	1.755349 204	1.05 E-06	4.20 E-05	Up
GTF2IRD1	269.55	154.5982994	384.5175626	2.4872	1.314525	0.00	0.01	Up

	7931			04349	044	093	2525	
GTF3C1	8529.2 76953	2725.307451	14333.24645	5.2593 13568	2.394874 515	9.14 E-06	0.00 0277	Up
GUCY2C	66.279 65393	22.39999424	110.1593136	4.9178 27765	2.298021 209	3.45 E-05	0.00 0859	Up
GUCY2D	257.37 06837	58.88983638	455.8515309	7.7407 50508	2.952473 45	6.21 E-12	8.05 E-10	Up
GUSB	1008.7 49333	1419.60093	597.8977355	0.4211 73108	- 1.247514 773	0.01 4977	0.09 9091	Down
GYG2	501.09 36116	695.998509	306.1887141	0.4399 27256	- 1.184663 108	0.00 1081	0.01 4063	Down
GZMB	7.0190 73608	13.49912609	0.539021123	0.0399 30075	- 4.646380 392	0.00 5524	0.04 7751	Down
GZMK	26.182 08181	11.80777256	40.55639106	3.4347 19871	1.780192 441	0.02 0336	0.12 2982	Up
H2AFY2	318.95 69149	149.9226715	487.9911583	3.2549 52394	1.702636 443	1.55 E-05	0.00 0427	Up
HAND2	66.235 03736	121.4488801	11.02119466	0.0907 47602	- 3.461996 666	0.00 6694	0.05 5017	Down
HAPLN3	552.10 15563	807.7288459	296.4742668	0.3670 46774	- 1.445964 174	6.27 E-05	0.00 1426	Down
HAS1	19.075 93346	37.58919395	0.56267296	0.0149 69008	- 6.061877 533	0.01 4353	0.09 6219	Down
HAS3	767.01 08971	449.2963741	1084.72542	2.4142 75927	1.271590 571	0.00 0394	0.00 6383	Up
HCFC2	592.96 94055	857.7166438	328.2221672	0.3826 69696	- 1.385828 439	0.00 0166	0.00 3155	Down
HCN1	83.656 93829	161.1954295	6.118447054	0.0379 56703	- 4.719501 505	0.00 913	0.06 9327	Down
HCST	36.153 8963	20.74925616	51.55853645	2.4848 37821	1.313151 694	0.04 7283	0.22 0107	Up
HDAC10	1048.3 90091	573.6877578	1523.092423	2.6549 15331	1.408665 852	9.30 E-05	0.00 1966	Up
HDDC3	256.64 80816	167.6772841	345.6188791	2.0612 14677	1.043494 771	0.00 8337	0.06 5027	Up
HEATR5A	1409.7	2100.588011	718.8545453	0.3422	-	5.13	0.00	Down

	21278			15866	1.547021 447	E-05	1197	n
HEG1	3085.3 65273	4908.949794	1261.780752	0.2570 36801	- 1.959953 163	2.14 E-08	1.30 E-06	Dow n
HENMT1	66.857 02119	107.9311487	25.78289374	0.2388 82788	- 2.065625 185	0.03 2211	0.16 9407	Dow n
HEPACAM	124.92 63234	62.0139225	187.8387243	3.0289 76668	1.598830 465	0.00 048	0.00 7511	Up
HEPACAM2	1026.7 91355	96.62808592	1956.954623	20.252 44115	4.340023 91	3.59 E-27	5.42 E-24	Up
HEPH	151.30 54671	212.6952993	89.91563498	0.4227 43875	- 1.242144 243	0.01 4431	0.09 6427	Dow n
HEPHL1	6.5346 99351	0	13.0693987	Inf	Inf	0.00 2613	0.02 7371	Up
HERC1	55.877 34514	79.40278313	32.35190715	0.4074 40468	- 1.295338 814	0.02 2395	0.13 1784	Dow n
HES4	1012.1 25723	658.8100856	1365.441361	2.0725 87216	1.051432 813	0.00 3609	0.03 478	Up
HES6	46.221 69669	23.22826824	69.21512514	2.9797 79828	1.575205 736	0.00 9631	0.07 2013	Up
HGF	274.17 70204	414.6489864	133.7050543	0.3224 5359	- 1.632836 562	3.75 E-05	0.00 0915	Dow n
HGFAC	112.75 17226	67.5406292	157.9628159	2.3387 8212	1.225757 467	0.00 9081	0.06 9214	Up
HHAT	120.46 87617	62.12056831	178.8169552	2.8785 46672	1.525340 604	0.00 0853	0.01 1682	Up
HHEX	258.06 40499	371.8695954	144.2585045	0.3879 27667	- 1.366140 424	0.01 4282	0.09 582	Dow n
HHIPL1	503.12 39547	857.1782951	149.0696143	0.1739 0736	- 2.523609 105	4.05 E-10	3.77 E-08	Dow n
HIC1	344.91 89249	551.8054625	138.0323873	0.2501 4683	- 1.999152 924	2.21 E-07	1.05 E-05	Dow n
HIF3A	152.74 03443	283.3739803	22.10670828	0.0780 12485	- 3.680151 168	0.00 2783	0.02 8736	Dow n
HIGD1A	305.82	422.742796	188.9103957	0.4468	-	0.00	0.02	Dow

	65959			68397	1.162078 075	2738	837	n
HIPK4	36.792 34877	18.73261136	54.85208618	2.9281 60155	1.549994 464	0.01 9784	0.12 0487	Up
HIST1H1C	121.40 08809	195.970804	46.83095778	0.2389 69055	- 2.065104 286	0.00 2241	0.02 4375	Dow n
HIST1H2A C	68.763 43823	111.3223129	26.20456355	0.2353 93632	- 2.086852 803	0.00 8566	0.06 6123	Dow n
HIST1H2B D	155.19 73549	248.5367961	61.8579136	0.2488 88352	- 2.006429 381	0.01 8307	0.11 4352	Dow n
HIST1H3G	11.580 894	20.17683825	2.98494974	0.1479 3942	- 2.756921 574	0.03 7988	0.18 8899	Dow n
HIST2H2BE	3080.0 38643	4558.709361	1601.367926	0.3512 766	- 1.509320 618	1.22 E-05	0.00 0352	Dow n
HIVEP2	1250.6 26454	1713.269662	787.9832466	0.4599 29493	- 1.120515 382	0.00 152	0.01 8184	Dow n
HKDC1	134.93 23762	51.57319069	218.2915618	4.2326 55744	2.081563 154	8.29 E-06	0.00 0255	Up
HLCS	966.38 82933	586.3408124	1346.435774	2.2963 36441	1.199334 03	0.00 0792	0.01 1043	Up
HMCN1	1249.5 54164	1832.272605	666.8357242	0.3639 39145	- 1.458230 862	0.01 0438	0.07 6287	Dow n
HMGA1	634.31 0315	283.8803678	984.7402621	3.4688 5651	1.794460 165	1.66 E-06	6.34 E-05	Up
HOMER2	406.00 98001	245.3578937	566.6617065	2.3095 31183	1.207600 026	0.02 5395	0.14 3807	Up
HOOK2	913.55 44585	426.9502246	1400.158692	3.2794 42454	1.713450 56	3.03 E-06	0.00 0106	Up
HOXA10	159.85 88806	281.5336394	38.18412176	0.1356 28985	- 2.882262 568	0.02 5512	0.14 4257	Dow n
HOXA11	19.767 92106	38.996821	0.539021123	0.0138 22181	- 6.176870 9	2.04 E-05	0.00 0547	Dow n
HOXA4	82.700 42836	122.2969721	43.10388465	0.3524 52591	- 1.504498 885	0.00 2144	0.02 3561	Dow n

HOXA6	183.68 00221	246.6345189	120.7255252	0.4894 916	- 1.030643 994	0.01 1999	0.08 4274	Dow n
HOXB2	163.05 9802	240.4018115	85.71779243	0.3565 6051	- 1.487781 167	0.00 8338	0.06 5027	Dow n
HOXB3	150.32 44756	217.5775136	83.07143767	0.3818 01576	- 1.389105 036	0.00 1235	0.01 5553	Dow n
HOXB4	86.595 98751	115.6993656	57.49260943	0.4969 13783	- 1.008932 537	0.03 5901	0.18 2351	Dow n
HOXC10	259.79 05736	399.2809541	120.3001931	0.3012 9209	- 1.730765 298	0.00 432	0.03 9813	Dow n
HOXC6	823.19 84649	1194.671188	451.7257423	0.3781 17215	- 1.403094 561	0.00 0106	0.00 2162	Dow n
HOXC8	339.59 78451	529.1861749	150.0095153	0.2834 72098	- 1.818721 355	0.00 2101	0.02 3203	Dow n
HOXD3	457.92 8512	644.4447935	271.4122305	0.4211 56681	- 1.247571 041	0.00 0761	0.01 0671	Dow n
HOXD4	487.89 84701	765.5602716	210.2366685	0.2746 18049	- 1.864501 644	6.88 E-07	2.87 E-05	Dow n
HOXD8	381.04 62892	543.2981707	218.7944077	0.4027 15156	- 1.312168 326	0.00 0504	0.00 7754	Dow n
HPCA	13.229 40597	4.054659765	22.40415217	5.5255 31973	2.466113 367	0.02 1617	0.12 8633	Up
HPCAL1	562.97 14477	760.0030896	365.9398057	0.4814 97787	- 1.054398 928	0.04 884	0.22 5222	Dow n
HPDL	44.744 93427	17.85642705	71.6334415	4.0116 33531	2.004189 82	0.00 1422	0.01 7375	Up
HPGDS	10.232 70643	18.81287173	1.652541126	0.0878 40982	- 3.508962 008	0.00 5434	0.04 7206	Dow n
HPN	2245.8 96084	1037.456644	3454.335524	3.3296 19163	1.735357 173	0.00 0225	0.00 4055	Up
HPSE	62.894 68933	100.8564888	24.93288989	0.2472 1156	- 2.016181	0.01 55	0.10 1212	Dow n

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HPX	11.278 51926	1.223970965	21.33306755	17.429 39021	4.123450 19	0.00 1613	0.01 8976	Up
HRCT1	541.70 26394	742.3425563	341.0627224	0.4594 41156	- 1.122047 997	0.00 2063	0.02 2868	Down
HS2ST1	119.45 825	175.8534287	63.06307142	0.3586 11554	- 1.479506 122	0.00 1136	0.01 4612	Down
HS3ST1	473.01 94687	222.1086203	723.9303172	3.2593 52637	1.704585 449	6.46 E-06	0.00 0207	Up
HS3ST2	76.974 49301	143.9864356	9.962550429	0.0691 90896	- 3.853273 975	0.00 4393	0.04 0285	Down
HS3ST3B1	20.672 45505	7.700032521	33.64487759	4.3694 46168	2.127450 428	0.01 2963	0.08 9079	Up
HS3ST6	105.30 53734	37.9350104	172.6757365	4.5518 83198	2.186463 538	5.45 E-06	0.00 018	Up
HS6ST2	112.03 78009	53.19787389	170.877728	3.2121 15739	1.683523 877	0.00 3218	0.03 208	Up
HSD11B1	131.61 49021	250.910422	12.31938214	0.0490 98726	- 4.348170 591	0.00 0652	0.00 9423	Down
HSD17B14	85.257 97426	50.26613619	120.2498123	2.3922 62892	1.258375 94	0.02 8995	0.15 7795	Up
HSPA12A	520.30 55103	861.7927013	178.8183193	0.2074 95746	- 2.268846 337	0.00 0121	0.00 241	Down
HSPA12B	775.41 41884	1096.82936	453.9990168	0.4139 1946	- 1.272578 017	0.00 0277	0.00 4775	Down
HSPA13	710.55 60426	953.983202	467.1288832	0.4896 61539	- 1.030143 212	0.00 4575	0.04 1592	Down
HSPA2	1125.9 72996	1736.885902	515.0600894	0.2965 42271	- 1.753690 326	0.00 2142	0.02 3551	Down
HSPA4L	191.69 05988	121.2625466	262.1186511	2.1615 79634	1.112085 987	0.00 7893	0.06 2334	Up
HSPA6	97.408 51331	44.00227021	150.8147564	3.4274 31259	1.777127 732	0.00 0208	0.00 3836	Up
HSPB6	5098.7 57244	9170.753203	1026.761285	0.1119 6041	- 3.158939 424	0.00 8532	0.06 5973	Down

HSPB7	453.22 84395	786.4168362	120.0400427	0.1526 41751	- 2.711778 471	0.04 3005	0.20 5571	Dow n
HSPG2	39229. 47217	56829.60078	21629.34355	0.3805 99956	- 1.393652 7	7.17 E-05	0.00 1587	Dow n
HTR1D	17.820 31545	1.637787989	34.00284291	20.761 44357	4.375834 854	9.89 E-05	0.00 206	Up
HTR2A	120.11 74499	221.5005899	18.73430986	0.0845 79052	- 3.563555 803	0.00 2129	0.02 3451	Dow n
HTRA1	9987.4 24634	14760.1993	5214.649967	0.3532 91298	- 1.501069 882	0.00 1126	0.01 4532	Dow n
HYDIN	12.221 02239	1.175420702	23.26662408	19.794 29496	4.307012 777	0.00 0858	0.01 1726	Up
ID1	896.60 88856	1513.219788	279.9979828	0.1850 34577	- 2.434133 209	0.00 2061	0.02 2854	Dow n
ID2	1616.4 93427	2332.861875	900.1249798	0.3858 4581	- 1.373903 656	0.04 4493	0.21 063	Dow n
ID3	2053.8 79231	3299.306636	808.4518249	0.2450 36886	- 2.028929 155	0.00 0216	0.00 3933	Dow n
IDH3A	1064.0 00977	1448.945845	679.0561084	0.4686 55271	- 1.093400 985	0.00 3155	0.03 1629	Dow n
IER3	858.65 78111	1427.026072	290.2895498	0.2034 22737	- 2.297447 152	0.01 4257	0.09 5789	Dow n
IFI44L	653.06 03374	292.8682397	1013.252435	3.4597 55268	1.790669 99	1.12 E-06	4.45 E-05	Up
IFITM10	18.512 9296	6.066774547	30.95908465	5.1030 55077	2.351361 213	0.01 0279	0.07 5277	Up
IFNLR1	45.988 17311	11.8343127	80.14203352	6.7720 05738	2.759583 196	1.66 E-05	0.00 0456	Up
IGF1	3026.1 75909	5149.967591	902.3842268	0.1752 21341	- 2.512749 598	0.00 315	0.03 1606	Dow n
IGFALS	129.26 17605	182.2960149	76.22750609	0.4181 52345	- 1.257899 442	0.00 4258	0.03 9365	Dow n
IGFBP2	864.41	1268.562301	460.2732332	0.3628	-	0.04	0.22	Dow

	77669			3061	1.462631 922	7311	0181	n
IGFBP4	10428. 48889	15751.36265	5105.615141	0.3241 37997	- 1.625319 944	2.06 E-06	7.57 E-05	Dow n
IGFBP5	10749. 20679	16020.50219	5477.911389	0.3419 31315	- 1.548221 539	0.01 617	0.10 4401	Dow n
IGFBP6	4290.6 47446	6672.373305	1908.921587	0.2860 93343	- 1.805442 165	7.43 E-06	0.00 0231	Dow n
IGFN1	10.697 99462	1.734888514	19.66110074	11.332 77474	3.502429 232	0.01 504	0.09 933	Up
IGJ	1657.8 61015	503.9455232	2811.776508	5.5795 24726	2.480142 236	0.01 966	0.11 9976	Up
IGLL1	16281. 36858	4219.842414	28342.89474	6.7165 76583	2.747726 084	5.84 E-15	1.29 E-12	Up
IGLON5	78.704 75877	23.21419293	134.1953246	5.7807 44779	2.531255 379	2.78 E-06	9.91 E-05	Up
IGSF1	43.791 3437	79.70588043	7.876806973	0.0988 23411	- 3.339003 338	0.00 3894	0.03 6674	Dow n
IGSF11	30.268 50561	49.5500377	10.98697352	0.2217 34918	- 2.173092 12	0.03 215	0.16 9331	Dow n
IGSF3	1213.0 73627	651.308808	1774.838447	2.7250 33694	1.446274 068	6.44 E-05	0.00 1457	Up
IGSF5	336.20 05708	96.88184628	575.5192952	5.9404 2452	2.570566 034	2.83 E-10	2.74 E-08	Up
IGSF9	728.90 91584	217.5569	1240.261417	5.7008 59944	2.511179 558	3.26 E-11	3.73 E-09	Up
IGSF9B	60.336 81229	86.45157198	34.2220526	0.3958 52288	- 1.336965 904	0.01 1721	0.08 2669	Dow n
IKBIP	980.07 57043	1431.16852	528.9828886	0.3696 16073	- 1.435900 599	0.00 0106	0.00 2162	Dow n
IKBKE	1886.0 56114	1197.771467	2574.340762	2.1492 75412	1.103850 364	0.00 1449	0.01 7613	Up
IL12RB1	77.516 78239	44.41672719	110.6168376	2.4904 31974	1.316396 005	0.01 6207	0.10 4603	Up
IL13RA1	4669.2 85909	6705.446851	2633.124967	0.3926 84489	- 1.348557 484	0.00 3512	0.03 417	Dow n

IL15RA	312.77 77756	183.7625825	441.7929686	2.4041 50848	1.265527 421	0.00 1121	0.01 4479	Up
IL17RE	293.38 11313	134.5888206	452.173442	3.3596 65683	1.748317 679	1.41 E-05	0.00 0394	Up
IL18BP	874.38 3007	474.1763297	1274.589684	2.6880 07824	1.426537 338	7.17 E-05	0.00 1587	Up
IL1RAP	508.91 45372	331.7505764	686.0784979	2.0680 5518	1.048274 68	0.00 3796	0.03 6045	Up
IL1RN	355.33 22039	210.9964044	499.6680034	2.3681 35157	1.243751 423	0.03 3408	0.17 3938	Up
IL20RA	169.51 72273	46.05001432	292.9844403	6.3623 09429	2.669550 539	2.33 E-08	1.40 E-06	Up
IL20RB	144.12 38303	63.62417067	224.6234898	3.5304 7415	1.819861 953	4.19 E-05	0.00 1007	Up
IL21R	120.46 93356	62.66432119	178.27435	2.8449 09937	1.508382 981	0.00 0824	0.01 1384	Up
IL2RB	618.68 34195	255.7338167	981.6330223	3.8384 95178	1.940540 836	2.14 E-07	1.02 E-05	Up
IL2RG	530.26 20821	306.6771932	753.846971	2.4581 12269	1.297550 809	0.00 0369	0.00 6061	Up
IL33	1676.2 4604	2638.328379	714.163701	0.2706 8795	- 1.885297 428	0.00 246	0.02 6121	Down
IL34	2077.6 03133	711.4441252	3443.76214	4.8405 23687	2.275163 138	1.61 E-10	1.64 E-08	Up
IL6	60.842 70679	119.0712183	2.614195278	0.0219 54888	- 5.509314 006	0.00 0352	0.00 5842	Down
IL6ST	4691.8 3777	6629.475664	2754.199877	0.4154 47619	- 1.267261 508	0.00 0248	0.00 4363	Down
IL7	142.86 81048	76.50609312	209.2301164	2.7348 16377	1.451443 97	0.00 1082	0.01 4063	Up
ILDRI	203.16 30915	78.85435352	327.4718295	4.1528 69371	2.054108 492	2.02 E-06	7.44 E-05	Up
ILK	4734.7 28007	6598.719342	2870.736671	0.4350 44517	- 1.200765 058	0.02 2394	0.13 1784	Down
IMPA2	485.54 40164	274.4327769	696.6552558	2.5385 27881	1.343992 106	0.00 0413	0.00 6608	Up
IMPAD1	712.01 57102	1071.542603	352.4888175	0.3289 54553	- 1.604039 816	1.10 E-05	0.00 0321	Down
INADL	813.91	521.4664268	1106.362107	2.1216	1.085177	0.00	0.06	Up

	42669			36313	373	91	9283	
INHBA	1010.4 81159	1848.232315	172.7300025	0.0934 56867	- 3.419555 509	0.03 368	0.17 4754	Dow n
INO80D	86.155 21404	118.5232739	53.78715414	0.4538 10904	- 1.139836 82	0.02 0446	0.12 3529	Dow n
INPP4B	785.02 78662	1068.30319	501.7525425	0.4696 72418	- 1.090273 222	0.03 681	0.18 5586	Dow n
INPP5B	1873.0 74733	1211.689995	2534.459471	2.0916 73185	1.064657 454	0.00 197	0.02 2053	Up
INPP5J	29.417 47643	16.1090737	42.72587916	2.6522 86528	1.407236 639	0.04 7137	0.21 9598	Up
INSR	2184.0 8567	1435.68045	2932.490889	2.0425 79104	1.030391 952	0.00 2857	0.02 9336	Up
IQCB1	325.36 84296	211.039157	439.6977021	2.0834 88715	1.059001 286	0.00 4817	0.04 3318	Up
IQGAP2	1847.0 17776	924.0427368	2769.992815	2.9976 89073	1.583850 751	7.32 E-06	0.00 0228	Up
IQGAP3	226.51 97484	307.6799128	145.3595841	0.4724 3768	- 1.081804 062	0.01 6539	0.10 6164	Dow n
IQSEC1	978.56 68786	1339.697276	617.4364814	0.4608 77612	- 1.117544 407	0.00 1516	0.01 8144	Dow n
IRAK3	198.89 77317	270.1320415	127.663422	0.4725 96369	- 1.081319 55	0.01 0113	0.07 4419	Dow n
IRF6	790.68 87503	389.04213	1192.335371	3.0647 97559	1.615791 782	0.00 734	0.05 9175	Up
IRF7	631.30 11854	356.7840213	905.8183495	2.5388 42256	1.344170 76	0.00 0242	0.00 4268	Up
IRF8	533.83 41466	310.995033	756.6732602	2.4330 71849	1.282778 924	0.00 0487	0.00 7586	Up
IRX1	1220.4 0085	776.9376812	1663.86402	2.1415 66898	1.098666 744	0.04 2566	0.20 3796	Up
IRX4	617.66 63904	223.5057474	1011.827033	4.5270 7389	2.178578 854	1.28 E-08	8.26 E-07	Up
IRX6	18.412 29476	31.37431316	5.450276372	0.1737 17791	- 2.525182 583	0.00 3933	0.03 6938	Dow n
ISCU	2144.8 24534	2896.139846	1393.509223	0.4811 60889	- 1.055408	0.01 0482	0.07 6551	Dow n

					716			
ISG12(B)	22.083 93179	38.5847983	5.583065278	0.1446 95982	- 2.788903 234	0.00 0739	0.01 0439	Dow n
ISL2	86.125 23477	158.9894734	13.26099613	0.0834 08013	- 3.583670 193	0.00 1952	0.02 189	Dow n
ITGA1	3212.5 27293	5746.461373	678.5932123	0.1180 88884	- 3.082054 924	0.00 4275	0.03 9497	Dow n
ITGA11	2215.9 7901	4243.650134	188.3078852	0.0443 74036	- 4.494140 401	0.00 1756	0.02 0241	Dow n
ITGA2	224.56 43975	108.9830162	340.1457788	3.1210 89788	1.642049 862	7.51 E-05	0.00 1642	Up
ITGA5	8399.2 68866	14307.96615	2490.57158	0.1740 68876	- 2.522269 83	0.00 9714	0.07 2439	Dow n
ITGA8	2374.9 51944	4126.582449	623.3214381	0.1510 50281	- 2.726899 228	0.04 6038	0.21 5751	Dow n
ITGA9	561.39 22045	933.6219971	189.1624118	0.2026 11348	- 2.303213 112	9.53 E-05	0.00 2005	Dow n
ITGB1	25890. 01899	37853.00744	13927.03055	0.3679 24017	- 1.442520 242	0.00 5013	0.04 4736	Dow n
ITGB2	820.23 16828	517.0854648	1123.377901	2.1725 18814	1.119368 671	0.00 1241	0.01 5605	Up
ITGB5	5075.0 76225	7079.532948	3070.619503	0.4337 31932	- 1.205124 434	0.00 2632	0.02 7507	Dow n
ITGB6	1521.6 66723	213.2051579	2830.128288	13.274 20179	3.730553 205	3.42 E-22	2.39 E-19	Up
ITGB7	1453.1 06995	946.1366022	1960.077389	2.0716 64265	1.050790 218	0.00 2293	0.02 4778	Up
ITGB8	104.33 58028	63.42303448	145.2485712	2.2901 54868	1.195445 162	0.01 0941	0.07 8801	Up
ITGBL1	1218.7 19922	2208.44377	228.9960743	0.1036 9115	- 3.269635 328	0.03 2092	0.16 9075	Dow n
ITIH2	295.98 49999	21.53627476	570.4337251	26.487 11216	4.727218 653	0.00 2185	0.02 3894	Up
ITIH4	1579.8	1004.98566	2154.680581	2.1439	1.100299	0.02	0.12	Up

	33121			91369	098	1229	7025	
ITIH5	3530.5 00057	6199.857152	861.1429614	0.1388 97226	- 2.847910 306	0.00 0725	0.01 0249	Dow n
ITK	159.44 08394	95.49256122	223.3891175	2.3393 35281	1.226098 648	0.01 0772	0.07 8069	Up
ITPKA	41.709 1747	21.41375931	62.00459008	2.8955 49034	1.533836 928	0.01 6754	0.10 7141	Up
ITPRIPL2	1430.0 61016	2102.055068	758.0669645	0.3606 31354	- 1.471403 263	3.11 E-05	0.00 0785	Dow n
ITSN1	1294.6 66472	1837.238314	752.09463	0.4093 61499	- 1.288552 674	0.00 0242	0.00 4276	Dow n
JADE1	2502.0 62474	3491.812505	1512.312442	0.4331 02419	- 1.207219 865	0.00 6183	0.05 1968	Dow n
JADE2	1694.8 00982	1109.759734	2279.842229	2.0543 56596	1.038686 627	0.00 215	0.02 3603	Up
JAG2	1704.6 57492	1070.096207	2339.218778	2.1859 89225	1.128286 29	0.00 1599	0.01 8893	Up
JAKMIP1	20.693 05853	9.589631853	31.79648521	3.3157 14899	1.729319 962	0.03 5013	0.18 0084	Up
JAM2	1219.7 74058	1661.31217	778.2359454	0.4684 46544	- 1.094043 667	0.00 1532	0.01 8278	Dow n
JAM3	1754.2 04958	2500.31462	1008.095297	0.4031 87378	- 1.310477 618	0.00 0145	0.00 281	Dow n
JAZF1	303.28 56362	541.1430199	65.42825259	0.1209 07505	- 3.048024 292	0.00 2713	0.02 8159	Dow n
JPH2	2105.8 77696	3597.258562	614.4968306	0.1708 23648	- 2.549420 386	0.03 0181	0.16 2061	Dow n
JUND	2903.0 56597	4143.623894	1662.4893	0.4012 16264	- 1.317548 004	0.00 5917	0.05 0432	Dow n
KANK2	4035.5 90601	5589.856605	2481.324598	0.4438 97719	- 1.171700 799	0.01 0964	0.07 8861	Dow n
KANK4	616.93 38734	235.1419902	998.7257566	4.2473 30542	2.086556 388	3.80 E-08	2.13 E-06	Up
KCNA2	21.604	40.25967139	2.949471984	0.0732	-	0.01	0.10	Dow

	57169			61204	3.770806 786	5856	2959	n
KCNA4	29.788 96487	7.620412104	51.95751764	6.8182 03128	2.769391 581	0.00 0271	0.00 4683	Up
KCNA6	149.91 71349	250.3842208	49.45004903	0.1974 96667	- 2.340099 79	0.00 2405	0.02 5759	Down
KCNB1	274.46 89724	138.4994825	410.4384623	2.9634 65675	1.567285 347	0.00 1642	0.01 9211	Up
KCNB2	58.783 276	110.3776348	7.188917204	0.0651 30198	- 3.940529 578	7.77 E-06	0.00 024	Down
KCNC1	4.1277 27302	0	8.255454604	Inf	Inf	0.02 4346	0.13 974	Up
KCNC4	268.66 63942	365.0189729	172.3138154	0.4720 68107	- 1.082933 078	0.00 4665	0.04 2284	Down
KCNE1L	18.574 52768	35.5665342	1.58252116	0.0444 94669	- 4.490223 702	0.00 0623	0.00 9095	Down
KCNE2	24.315 13877	1.219440949	47.4108366	38.879 15739	5.280925 047	4.03 E-05	0.00 0975	Up
KCNE3	373.70 97122	84.52974812	662.8896763	7.8420 87443	2.971237 729	1.43 E-13	2.47 E-11	Up
KCNE4	396.36 67853	613.0664488	179.6671219	0.2930 63048	- 1.770717 025	0.00 116	0.01 482	Down
KCNG1	662.75 3708	1318.087784	7.419631734	0.0056 29088	- 7.472883 16	0.01 138	0.08 0874	Down
KCNG2	27.466 57004	3.658322848	51.27481724	14.015 93554	3.808996 14	6.09 E-06	0.00 0196	Up
KCNH1	5.7205 90467	10.87850797	0.56267296	0.0517 23358	- 4.273040 254	0.01 5293	0.10 0472	Down
KCNJ11	27.051 75329	3.689393003	50.41411358	13.664 6092	3.772372 295	7.41 E-06	0.00 0231	Up
KCNJ8	599.45 42556	861.3343601	337.574151	0.3919 19987	- 1.351368 947	0.01 4776	0.09 8198	Down
KCNK1	406.31 30949	229.636561	582.9896288	2.5387 49171	1.344117 863	0.04 1974	0.20 1862	Up
KCNK12	141.15 80779	273.7796859	8.536470012	0.0311 80071	- 5.003231	9.37 E-05	0.00 1976	Down

					982			
KCNK2	184.13 23106	81.79734337	286.4672778	3.5021 58701	1.808244 461	2.76 E-05	0.00 0707	Up
KCNK7	45.563 35807	16.66805625	74.45865989	4.4671 47144	2.159353 777	0.00 0547	0.00 8247	Up
KCNN2	47.723 79252	27.76326066	67.68432437	2.4379 09768	1.285644 73	0.03 0682	0.16 3785	Up
KCNQ3	8.6401 35185	15.91663782	1.363632548	0.0856 73404	- 3.545008 772	0.00 9118	0.06 9303	Down
KCNQ5	116.54 31739	53.44223568	179.6441122	3.3614 63268	1.749089 385	0.00 0192	0.00 3563	Up
KCNS3	80.072 29294	116.4129043	43.73168161	0.3756 60086	- 1.412500 258	0.00 4338	0.03 9942	Down
KCNT1	210.27 03249	110.2290936	310.3115561	2.8151 51118	1.493212 369	0.00 0233	0.00 4142	Up
KCTD1	1054.4 87308	291.7027823	1817.271833	6.2298 74871	2.639203 187	1.32 E-12	1.94 E-10	Up
KCTD10	2708.6 08037	3761.83082	1655.385254	0.4400 47768	- 1.184267 957	0.00 0969	0.01 2928	Down
KCTD15	716.49 16208	1108.71046	324.2727812	0.2924 77426	- 1.773602 818	0.01 3769	0.09 3306	Down
KCTD9	808.09 37426	1164.770473	451.4170118	0.3875 5877	- 1.367512 996	0.00 1622	0.01 9037	Down
KDELC2	1457.0 25938	2012.603674	901.4482016	0.4479 01499	- 1.158746 602	0.00 1291	0.01 6111	Down
KDELR2	4603.8 21536	6313.521072	2894.122	0.4584 00624	- 1.125319 087	0.00 1012	0.01 3363	Down
KDELR3	2500.3 61766	4003.874401	996.8491312	0.2489 71129	- 2.005949 638	2.43 E-08	1.45 E-06	Down
KDF1	361.86 09597	126.8132416	596.9086779	4.7069 9014	2.234804 831	2.67 E-08	1.58 E-06	Up
KHDRBS3	452.77 9953	657.4810289	248.078877	0.3773 17164	- 1.406150 367	0.00 0126	0.00 2494	Down
KIAA0195	2323.9 29847	1547.240764	3100.61893	2.0039 66676	1.002858 518	0.00 3499	0.03 4083	Up

KIAA0319	55.618 90149	8.347055565	102.8907474	12.326 59189	3.623702 067	1.70 E-08	1.07 E-06	Up
KIAA0556	2111.2 24601	1070.217766	3152.231436	2.9454 11239	1.558469 078	0.00 0323	0.00 5422	Up
KIAA0754	413.61 0833	631.8504584	195.3712076	0.3092 04821	- 1.693365 284	8.89 E-06	0.00 027	Down
KIAA1211	184.93 09031	254.6773901	115.184416	0.4522 75783	- 1.144725 345	0.01 7979	0.11 2943	Down
KIAA1211L	436.28 18032	138.8728255	733.6907808	5.2831 84655	2.401407 835	1.33 E-09	1.14 E-07	Up
KIAA1217	3276.7 20219	2096.962542	4456.477896	2.1252 06248	1.087602 859	0.01 1239	0.08 024	Up
KIAA1244	1221.6 41827	629.3537274	1813.929926	2.8822 10507	1.527175 709	0.00 0346	0.00 5754	Up
KIAA1324	250.95 31679	70.17453595	431.7317998	6.1522 57282	2.621115 837	1.09 E-05	0.00 0321	Up
KIAA1324L	178.37 00153	323.4711246	33.26890609	0.1028 49694	- 3.281390 597	0.00 3641	0.03 4992	Down
KIAA1462	1190.3 1011	1725.914814	654.7054049	0.3793 38192	- 1.398443 465	8.32 E-05	0.00 1791	Down
KIAA1522	1665.5 64232	833.1162038	2498.01226	2.9983 9596	1.584190 914	9.55 E-06	0.00 0288	Up
KIAA1549L	29.264 96372	5.6613776	52.86854984	9.3384 6028	3.223184 699	4.04 E-05	0.00 0976	Up
KIAA1614	364.97 11434	492.8080309	237.1342559	0.4811 89918	- 1.055321 68	0.01 757	0.11 1029	Down
KIAA1755	289.83 33236	75.75162961	503.9150176	6.6522 00358	2.733831 622	4.47 E-11	4.88 E-09	Up
KIAA2012	20.767 64306	3.548272231	37.98701389	10.705 77775	3.420317 703	0.00 0251	0.00 4399	Up
KIAA2022	73.854 18988	116.6911011	31.0172787	0.2658 06719	- 1.911550 522	0.01 3496	0.09 1938	Down
KIF13B	3856.9 22091	1803.879027	5909.965155	3.2762 536	1.712047 034	8.67 E-07	3.54 E-05	Up
KIF1A	1125.0 90931	247.1282277	2003.053635	8.1053 21087	3.018869 338	1.65 E-15	3.93 E-13	Up
KIF21A	232.21 89362	153.5179126	310.9199598	2.0253 00856	1.018136 234	0.02 2653	0.13 2925	Up

KIF5A	21.600 1925	9.284740232	33.91564477	3.6528 37227	1.869017 468	0.02 4452	0.14 0127	Up
KIF7	907.81 32264	1214.169995	601.4564574	0.4953 6429	- 1.013438 225	0.03 0033	0.16 1505	Down
KIR2DL5A	42.248 09293	10.47311103	74.02307483	7.0679 16557	2.821285 008	2.28 E-05	0.00 0604	Up
KIR2DS1	57.467 32049	16.06003818	98.8746028	6.1565 60881	2.622124 671	1.02 E-05	0.00 0301	Up
KIRREL	2916.0 00516	4200.621676	1631.379357	0.3883 66171	- 1.364510 555	0.00 8745	0.06 7212	Down
KIRREL3	87.712 02106	30.59735426	144.8266879	4.7333 07547	2.242848 664	1.20 E-05	0.00 0348	Up
KIT	1515.1 60446	839.4711188	2190.849774	2.6097 97674	1.383937 966	0.00 0105	0.00 2159	Up
KITLG	182.12 37095	261.6663977	102.5810213	0.3920 29784	- 1.350964 83	0.00 1073	0.01 3967	Down
KL	7.7755 94392	14.17998414	1.371204646	0.0967 00013	- 3.370340 111	0.02 5219	0.14 3124	Down
KLB	46.377 77565	92.20470426	0.550847042	0.0059 74175	- 7.387044 778	8.68 E-05	0.00 1858	Down
KLC3	130.80 68327	17.89996203	243.7137034	13.615 31957	3.767158 94	1.20 E-13	2.14 E-11	Up
KLF13	99.295 33708	133.4751725	65.11550161	0.4878 47293	- 1.035498 472	0.02 8557	0.15 5851	Down
KLF4	1528.5 60724	2464.111503	593.0099462	0.2406 58731	- 2.054939 333	0.00 3811	0.03 6146	Down
KLF5	726.11 91281	193.3880064	1258.85025	6.5094 53577	2.702536 444	6.55 E-12	8.43 E-10	Up
KLF6	2549.8 39847	3696.130944	1403.54875	0.3797 34585	- 1.396936 694	6.27 E-05	0.00 1426	Down
KLF7	1093.5 77998	1607.970525	579.1854705	0.3601 96572	- 1.473143 645	4.03 E-05	0.00 0975	Down
KLHL13	318.96 37037	200.7077104	437.219697	2.1783 90139	1.123262 357	0.00 4219	0.03 9075	Up
KLHL15	228.76	330.5950118	126.9258458	0.3839	-	0.00	0.01	Down

	04288			31521	1.381079 083	0809	1251	n
KLHL3	264.45 13786	396.584024	132.3187332	0.3336 46151	- 1.583609 234	7.57 E-05	0.00 1651	Dow n
KLHL30	39.479 82559	73.59547452	5.364176667	0.0728 87317	- 3.778188 398	0.03 1711	0.16 77	Dow n
KLHL31	15.982 01863	30.03773176	1.926305509	0.0641 29526	- 3.962867 439	0.04 5291	0.21 3407	Dow n
KLHL32	133.42 3848	221.2226733	45.6250226	0.2062 40264	- 2.277602 078	0.00 9903	0.07 3322	Dow n
KLHL4	55.812 00214	103.6223016	8.00170271	0.0772 1989	- 3.694883 694	1.69 E-09	1.43 E-07	Dow n
KLHL40	215.59 45628	111.4890616	319.700064	2.8675 4646	1.519816 861	0.01 887	0.11 6833	Up
KLHL6	138.77 19666	55.77964173	221.7642915	3.9757 20973	1.991216 508	0.00 0791	0.01 1043	Up
KLHL8	910.48 13398	531.3399619	1289.622718	2.4271 14108	1.279241 937	0.00 0288	0.00 4922	Up
KLK10	211.48 43639	321.6237671	101.3449606	0.3151 04078	- 1.666099 669	4.89 E-05	0.00 1146	Dow n
KLK11	40.682 48843	16.04644813	65.31852872	4.0705 91085	2.025238 302	0.00 1909	0.02 1576	Up
KLK14	12.366 44923	22.2481738	2.484724648	0.1116 82184	- 3.162529 031	0.00 4124	0.03 8277	Dow n
KLK7	690.41 05708	1090.124367	290.6967745	0.2666 63863	- 1.906905 766	3.46 E-06	0.00 012	Dow n
KLK8	12.661 09715	20.61768068	4.704513628	0.2281 78606	- 2.131764 566	0.04 1014	0.19 8559	Dow n
KLRD1	66.303 98934	27.7661802	104.8417985	3.7758 81224	1.916813 383	0.00 0525	0.00 8005	Up
KLRF2	7.5157 29925	14.7813473	0.250112546	0.0169 20822	- 5.885056 538	0.01 9382	0.11 8718	Dow n
KLRK1	109.92 41608	58.30443923	161.5438824	2.7706 961	1.470248 479	0.00 1784	0.02 0502	Up

KPNA3	429.00 11732	585.2848127	272.7175338	0.4659 56963	- 1.101731 385	0.00 3807	0.03 6134	Dow n
KRBA1	871.08 71039	519.2712968	1222.902911	2.3550 36603	1.235749 483	0.00 0515	0.00 7903	Up
KREMEN2	21.836 07798	10.67637211	32.99578385	3.0905 42697	1.627860 197	0.04 5754	0.21 4809	Up
KRT14	1267.8 40007	275.3650697	2260.314944	8.2084 30162	3.037106 337	8.91 E-16	2.28 E-13	Up
KRT15	5443.3 92585	2100.963855	8785.821316	4.1818 05078	2.064125 817	3.36 E-05	0.00 0839	Up
KRT17	3002.5 06192	912.4167897	5092.595595	5.5814 35647	2.480636 257	1.13 E-11	1.41 E-09	Up
KRT18	2512.5 6573	356.4472428	4668.684216	13.097 82671	3.711255 544	2.26 E-22	1.64 E-19	Up
KRT5	8479.0 369	2160.44425	14797.62955	6.8493 45706	2.775966 179	2.39 E-14	4.56 E-12	Up
KRT6A	8.9141 25181	0.391806901	17.43644346	44.502 64512	5.475819 183	0.00 1442	0.01 7533	Up
KRT7	7461.1 50346	1260.534429	13661.76626	10.838 07466	3.438036 586	2.13 E-20	1.14 E-17	Up
KRT8	6144.1 87629	841.2712617	11447.104	13.606 91197	3.766267 785	1.77 E-23	1.65 E-20	Up
KRTCAP3	362.07 44053	224.8231799	499.3256307	2.2209 70413	1.151190 174	0.00 7695	0.06 1298	Up
KYNU	105.19 13429	43.06799035	167.3146954	3.8848 96741	1.957876 253	0.00 9036	0.06 9013	Up
LAD1	1011.2 02687	271.6981509	1750.707223	6.4435 74301	2.687861 185	1.26 E-12	1.86 E-10	Up
LAIR1	87.057 57444	42.01784994	132.0972989	3.1438 37658	1.652526 721	0.00 0938	0.01 2604	Up
LAMA1	112.35 91228	42.390081	182.3281646	4.3011 98777	2.104738 806	1.53 E-05	0.00 0421	Up
LAMA4	10099. 85932	15018.61391	5181.104725	0.3449 78888	- 1.535420 021	0.00 0109	0.00 2205	Dow n
LAMB1	8311.2 92182	11757.44118	4865.143186	0.4137 92688	- 1.273019 944	0.00 0181	0.00 3404	Dow n
LAMB2	15719. 72222	22187.61354	9251.830906	0.4169 81794	- 1.261943 699	0.00 3783	0.03 5936	Dow n
LAMB3	2113.7 65381	716.5098851	3511.020877	4.9001 70884	2.292832 061	2.39 E-10	2.36 E-08	Up

LAMC1	18428.07127	29093.87494	7762.267592	0.266800748	-1.906165385	3.71E-08	2.10E-06	Down
LAMC2	731.7998058	344.4303037	1119.169308	3.249334613	1.700144319	4.41E-06	0.000148	Up
LAMC3	339.7511007	70.69776364	608.8044377	8.611367692	3.10624239	9.60E-06	0.000288	Up
LANCL3	25.91212777	44.08417022	7.740085318	0.175575162	-2.50983933	0.000988	0.013116	Down
LAT	197.0930158	127.8654194	266.3206122	2.082819682	1.058537945	0.009102	0.069283	Up
LAT2	486.129867	308.9861101	663.273624	2.146613075	1.10206217	0.002436	0.02592	Up
LCA5	81.24149292	22.48803473	139.9949511	6.225308382	2.638145305	6.42E-07	2.72E-05	Up
LCAT	1181.254759	1648.612896	713.8966223	0.433028653	-1.207465604	0.000569	0.008513	Down
LCK	392.3109278	178.6917217	605.9301338	3.390924482	1.761678655	4.48E-06	0.00015	Up
LCN2	3676.390306	1243.978575	6108.802037	4.910697147	2.295927851	2.68E-05	0.00069	Up
LCNL1	80.9411847	26.32696859	135.5554008	5.148917939	2.364269277	5.63E-06	0.000183	Up
LDB2	898.672365	1504.370857	292.9738726	0.194748437	-2.360316348	1.24E-08	8.12E-07	Down
LDHA	971.0545967	1491.020263	451.0889308	0.30253709	-1.724816074	1.27E-06	4.98E-05	Down
LDHD	88.82019033	29.4180435	148.2223372	5.038483853	2.332989673	9.72E-05	0.002033	Up
LDLRAD1	970.9132822	52.59003169	1889.236533	35.92385233	5.166870162	2.74E-24	3.11E-21	Up
LEPREL2	2891.517485	3998.952708	1784.082261	0.446137374	-1.164440083	0.003393	0.033294	Down
LGALS1	7887.451044	12912.73006	2862.172032	0.221655066	-2.173611759	0.000469	0.007369	Down
LGALS12	31.08104355	61.61124006	0.550847042	0.008940691	-6.805397993	0.005206	0.04584	Down

LGALS7	75.401 42847	23.79615613	127.0067008	5.3372 78009	2.416104 161	6.88 E-06	0.00 0217	Up
LGALSL	1659.3 87683	2457.581	861.1943655	0.3504 23593	- 1.512828 182	0.00 3016	0.03 0663	Down
LGI2	157.95 23276	291.2050208	24.69963445	0.0848 18711	- 3.559473 634	0.00 3367	0.03 3099	Down
LGR5	107.80 39628	44.00971977	171.5982059	3.8990 97899	1.963140 378	4.01 E-05	0.00 0973	Up
LGR6	1042.9 6015	665.6144789	1420.305821	2.1338 26512	1.093442 884	0.03 003	0.16 1505	Up
LHB	72.651 60077	40.0018451	105.3013564	2.6324 12485	1.396385 569	0.00 7797	0.06 184	Up
LHCGR	17.446 75342	34.08072134	0.812785506	0.0238 48835	- 5.389937 385	1.47 E-06	5.71 E-05	Down
LHFP	2688.6 39233	4260.361489	1116.916977	0.2621 64837	- 1.931453 897	0.03 0402	0.16 2719	Down
LIF	283.07 05963	498.3100888	67.83110368	0.1361 22276	- 2.877024 911	0.04 5419	0.21 3843	Down
LIG1	982.66 82902	590.9723697	1374.364211	2.3255 98084	1.217601 788	0.00 0646	0.00 9346	Up
LIMCH1	1197.5 40478	1853.251054	541.8299024	0.2923 67244	- 1.774146 412	6.90 E-07	2.87 E-05	Down
LIMS2	3212.5 67894	5040.274398	1384.86139	0.2747 59126	- 1.863760 693	0.01 7208	0.10 9233	Down
LIN7A	44.334 29284	77.70101017	10.96757551	0.1411 51003	- 2.824688 716	0.02 3902	0.13 7931	Down
LINGO3	6.8663 50545	0	13.73270109	Inf	Inf	0.00 1887	0.02 1401	Up
LINGO4	6.1963 72899	0.827634049	11.56511175	13.973 70223	3.804642 397	0.02 9707	0.16 026	Up
LIPE	481.75 03217	887.674446	75.82619751	0.0854 21179	- 3.549262 384	0.04 25	0.20 3617	Down
LIPG	772.62 38292	1483.072931	62.17472784	0.0419 22907	- 4.576117 447	0.03 3019	0.17 2421	Down

LIPH	94.273 15194	16.41624491	172.130059	10.485 34911	3.390302 992	2.35 E-07	1.11 E-05	Up
LIX1L	1023.4 82239	1533.955261	513.0092171	0.3344 3558	- 1.580199 754	1.06 E-05	0.00 0311	Down
LLGL2	1204.7 34126	645.6508724	1763.81738	2.7318 43873	1.449875 035	0.00 0755	0.01 0623	Up
LMAN1	1215.6 39247	1818.417666	612.860827	0.3370 29737	- 1.569052 207	9.76 E-06	0.00 0291	Down
LMAN1L	34.094 84057	16.6748367	51.51484445	3.0893 76249	1.627315 585	0.01 3049	0.08 95	Up
LMBR1L	627.19 98831	382.5057367	871.8940294	2.2794 27328	1.188671 415	0.00 1133	0.01 4586	Up
LMNTD2	12.084 81959	2.394861652	21.77477752	9.0922 90364	3.184643 758	0.00 6916	0.05 6377	Up
LMX1A	48.082 05902	86.83426054	9.329857503	0.1074 44429	- 3.218337 42	0.03 3156	0.17 3062	Down
LMX1B	472.80 075	114.3779927	831.2235072	7.2673 37778	2.861426 963	4.09 E-13	6.51 E-11	Up
LNP1	134.73 32576	180.0539442	89.41257086	0.4965 87682	- 1.009879 619	0.02 0224	0.12 2392	Down
LNPEP	561.64 95194	787.9231681	335.3758708	0.4256 45398	- 1.232276 061	0.01 8163	0.11 3787	Down
LOC100126 544	179.74 70163	109.7270814	249.7669513	2.2762 56217	1.186662 958	0.00 4067	0.03 7867	Up
LOC100137 797	152.20 79568	263.3605541	41.05535953	0.1558 90314	- 2.681396 802	0.00 2124	0.02 3417	Down
LOC100138 381	12.939 34537	2.069085122	23.80960562	11.507 31083	3.524478 821	0.00 2209	0.02 4118	Up
LOC100138 645	15.643 13841	25.22663828	6.059638533	0.2402 07929	- 2.057644 322	0.04 4611	0.21 0989	Down
LOC100139 049	10.523 81864	3.178475453	17.86916182	5.6219 28526	2.491065 112	0.03 9603	0.19 4376	Up
LOC100139 101	14.073 36771	1.589237727	26.55749768	16.710 8402	4.062712 367	0.00 0553	0.00 8314	Up
LOC100139 363	52.309 63936	75.99241072	28.626868	0.3767 06933	- 1.408485 508	0.01 1735	0.08 2703	Down

LOC100139 916	121.52 68077	63.01226253	180.0413528	2.8572 43108	1.514623 793	0.00 0909	0.01 2286	Up
LOC100141 258	164.27 12827	101.2508847	227.2916807	2.2448 36492	1.166610 367	0.00 5542	0.04 7868	Up
LOC100196 902	22.990 13143	11.70726724	34.27299562	2.9274 97504	1.549667 941	0.04 8336	0.22 3808	Up
LOC100295 719	9.2622 17194	1.981044628	16.54338976	8.3508 41536	3.061921 589	0.02 2168	0.13 0762	Up
LOC100295 741	511.38 13047	6.334940783	1016.427669	160.44 78563	7.325960 704	0.00 06	0.00 8838	Up
LOC100297 152	61.948 16998	91.38563701	32.51070295	0.3557 52873	- 1.491052 686	0.00 6336	0.05 2915	Dow n
LOC100297 621	7.5726 76808	14.31317009	0.832183522	0.0581 41105	- 4.104297 704	0.03 944	0.19 3992	Dow n
LOC100299 025	156.41 41033	101.818647	211.0095596	2.0724 05849	1.051306 56	0.01 5166	0.09 9836	Up
LOC100299 144	19.543 90313	6.400971154	32.68683511	5.1065 43105	2.352346 983	0.00 9043	0.06 9037	Up
LOC100299 281	3751.3 67373	1629.657956	5873.076789	3.6038 70841	1.849547 308	1.07 E-06	4.26 E-05	Up
LOC100300 091	144.76 33426	11.3227552	278.20393	24.570 33868	4.618845 839	9.95 E-19	4.01 E-16	Up
LOC100300 510	497.07 57709	240.4490978	753.7024439	3.1345 6133	1.648263 558	2.40 E-05	0.00 063	Up
LOC100300 716	235.08 10272	14.38841519	455.7736392	31.676 43088	4.985337 885	0.00 0157	0.00 3016	Up
LOC100300 760	174.86 90166	71.53913446	278.1988988	3.8887 65233	1.959312 141	4.62 E-06	0.00 0154	Up
LOC100300 806	15.520 71468	1.272521227	29.76890813	23.393 64365	4.548044 679	8.59 E-05	0.00 1845	Up
LOC100301 381	8.7540 20558	0	17.50804112	Inf	Inf	0.00 0328	0.00 5492	Up
LOC100335 177	91.735 69925	40.01430993	143.4570886	3.5851 44635	1.842031 323	0.00 0231	0.00 4124	Up
LOC100335 205	315.57 02486	138.5743758	492.5661215	3.5545 25276	1.829656 894	3.82 E-06	0.00 013	Up
LOC100335 509	16.707 27738	6.432041308	26.98251344	4.1950 15571	2.068676 166	0.02 9413	0.15 922	Up
LOC100335 643	13.228 19816	1.633257974	24.82313834	15.198 54104	3.925860 936	0.01 0529	0.07 6783	Up
LOC100335 848	211.52 42163	100.456504	322.5919287	3.2112 59759	1.683139 37	7.47 E-05	0.00 1639	Up

LOC100336 251	468.82 62877	644.6316695	293.0209058	0.4545 55554	- 1.137471 468	0.00 6274	0.05 2542	Dow n
LOC100336 476	351.32 30588	208.6968904	493.9492272	2.3668 26004	1.242953 651	0.00 096	0.01 2852	Up
LOC100336 574	241.14 02596	339.0536612	143.226858	0.4224 31238	- 1.243211 57	0.00 1767	0.02 0318	Dow n
LOC100336 747	349.45 87104	467.630817	231.2866037	0.4945 92305	- 1.015688 301	0.00 7751	0.06 1609	Dow n
LOC100336 869	59.162 97889	19.55070012	98.77525766	5.0522 61918	2.336929 433	0.00 0191	0.00 3563	Up
LOC100336 949	6247.9 36978	9933.002118	2562.871839	0.2580 15835	- 1.954468 483	0.04 8721	0.22 4785	Dow n
LOC100337 066	60.791 6154	13.80565735	107.7775735	7.8067 68686	2.964725 523	5.53 E-07	2.41 E-05	Up
LOC100337 129	44.956 47046	22.5751047	67.33783622	2.9828 36053	1.576684 684	0.04 9369	0.22 6339	Up
LOC100337 146	37.750 91199	61.99464806	13.50717593	0.2178 76484	- 2.198417 606	0.00 0712	0.01 0117	Dow n
LOC100337 183	82.575 5248	135.8117045	29.33934515	0.2160 29578	- 2.210699 243	0.02 8423	0.15 5303	Dow n
LOC100337 214	69.788 50259	17.58890077	121.9881044	6.9355 16099	2.794003 243	5.98 E-07	2.56 E-05	Up
LOC100337 223	7.6325 32705	1.567227603	13.69783781	8.7401 71357	3.127661 565	0.03 9534	0.19 4193	Up
LOC100337 430	256.82 49269	73.99908511	439.6507686	5.9413 00057	2.570778 652	0.00 0409	0.00 6564	Up
LOC100337 457	334.61 01615	488.5937945	180.6265285	0.3696 86497	- 1.435625 744	0.01 8987	0.11 7365	Dow n
LOC100847 119	278.03 65311	63.43255062	492.6405116	7.7663 6769	2.957240 012	0.00 0947	0.01 2708	Up
LOC100847 265	179.95 1452	262.68935	97.21355403	0.3700 70405	- 1.434128 331	0.00 1052	0.01 3771	Dow n
LOC100847 295	52.063 87145	77.48807826	26.63966464	0.3437 90493	- 1.540398 444	0.00 6508	0.05 3898	Dow n
LOC100847	116.47	50.62690209	182.3210764	3.6012	1.848505	7.46	0.00	Up

319	39893			68671	235	E-05	1639	
LOC100847 724	184.46 2348	26.01785633	342.9068396	13.179 67304	3.720242 675	0.00 6592	0.05 4426	Up
LOC100847 951	35.712 50994	13.92087793	57.50414194	4.1307 84152	2.046415 676	0.00 2605	0.02 7304	Up
LOC100848 100	159.06 9001	313.8160688	4.321933248	0.0137 72186	- 6.182098 627	0.01 4172	0.09 5398	Down
LOC100848 461	161.71 02867	236.9387186	86.48185475	0.3649 96718	- 1.454044 602	0.00 0703	0.01 0038	Down
LOC100848 575	266.76 46095	99.99587269	433.5333464	4.3355 12404	2.116202 512	0.00 1228	0.01 5497	Up
LOC100848 815	4106.4 07931	1569.338274	6643.477589	4.2332 98645	2.081782 27	2.33 E-05	0.00 0616	Up
LOC100848 865	9.7176 02893	2.852698923	16.58250686	5.8129 18681	2.539262 726	0.04 1304	0.19 9593	Up
LOC100848 982	13.860 28473	25.13759811	2.582971344	0.1027 53307	- 3.282743 264	0.04 5066	0.21 2566	Down
LOC100849 074	287.13 73036	181.620356	392.6542511	2.1619 50674	1.112333 608	0.00 5016	0.04 4736	Up
LOC100850 276	287.40 68793	417.4995525	157.3142062	0.3768 00898	- 1.408125 693	0.00 1891	0.02 1426	Down
LOC100852 118	2965.1 48073	4575.683815	1354.612331	0.2960 45878	- 1.756107 33	0.00 3543	0.03 4383	Down
LOC101902 487	10.069 58129	2.438881899	17.70028069	7.2575 39077	2.859480 435	0.02 1913	0.12 9892	Up
LOC101902 537	68.433 22543	112.8576757	24.00877515	0.2127 34978	- 2.232870 834	2.98 E-05	0.00 0755	Down
LOC101902 550	21.920 22046	36.74487444	7.095566473	0.1931 03571	- 2.372553 251	0.00 378	0.03 5925	Down
LOC101903 023	84.172 22929	113.1522274	55.19223118	0.4877 69728	- 1.035727 871	0.02 979	0.16 0628	Down
LOC101903 326	402.97 30076	210.7864043	595.1596108	2.8235 19917	1.497494 808	7.63 E-05	0.00 166	Up
LOC101903 444	89.296 88922	11.78059247	166.813186	14.159 99971	3.823749 331	2.13 E-08	1.30 E-06	Up
LOC101903	161.95	75.8378546	248.0805852	3.2711	1.709818	0.00	0.00	Up

503	92199			97301	777	0101	2087	
LOC101903 806	70.346 76887	101.531361	39.16217672	0.3857 15077	- 1.374392 556	0.00 8236	0.06 4447	Dow n
LOC101903 854	99.037 45812	47.45459629	150.62032	3.1739 88017	1.666296 681	0.00 0599	0.00 8838	Up
LOC101904 210	208.10 62407	289.8203321	126.3921493	0.4361 05184	- 1.197251 955	0.00 3267	0.03 2447	Dow n
LOC101904 278	90.499 4464	121.2582677	59.74062514	0.4926 72593	- 1.021298 877	0.03 3689	0.17 4754	Dow n
LOC101904 333	159.26 01934	104.0661891	214.4541978	2.0607 48065	1.043168 14	0.01 221	0.08 5098	Up
LOC101904 339	141.42 50357	93.06650388	189.7835674	2.0392 2528	1.028021 164	0.02 0925	0.12 5918	Up
LOC101904 616	194.25 50196	89.82071814	298.6893211	3.3253 94489	1.733525 497	4.13 E-05	0.00 0995	Up
LOC101904 653	5.8371 69131	0.805623925	10.86871434	13.491 05209	3.753930 955	0.03 9138	0.19 2986	Up
LOC101904 723	130.93 49265	15.7923572	246.0774958	15.582 06243	3.961814 295	0.00 0111	0.00 2238	Up
LOC101904 834	7.5204 09502	1.197430826	13.84338818	11.560 90847	3.531182 866	0.02 3752	0.13 742	Up
LOC101905 023	7.4226 38059	0.783613802	14.06166232	17.944 6333	4.165480 536	0.01 1987	0.08 4274	Up
LOC101905 035	25.190 59731	8.848913084	41.53228153	4.6934 896	2.230660 963	0.00 4781	0.04 303	Up
LOC101905 132	49.211 96129	20.99088225	77.43304033	3.6888 8927	1.883186 484	0.00 1829	0.02 0867	Up
LOC101905 134	17.313 50398	3.737943265	30.88906469	8.2636 52628	3.046779 61	0.00 1716	0.01 9896	Up
LOC101905 222	25.805 3376	12.78899222	38.82168298	3.0355 54508	1.601960 079	0.04 119	0.19 9149	Up
LOC101905 432	904.46 41863	544.220571	1264.707801	2.3238 8827	1.216540 707	0.00 049	0.00 7617	Up
LOC101905 478	225.15 03465	340.969174	109.3315191	0.3206 49277	- 1.640931 94	0.04 0376	0.19 6997	Dow n
LOC101905 630	188.29 13415	251.5748208	125.0078621	0.4969 01326	- 1.008968 703	0.04 7789	0.22 1907	Dow n
LOC101905 743	5.1027 92372	10.20558474	0	0	#NAME?	0.00 4721	0.04 2616	Dow n

LOC101905 790	209.22 248	125.0389804	293.4059796	2.3465 16091	1.230520 354	0.00 2622	0.02 7441	Up
LOC101905 813	52.545 75504	23.05832774	82.03318235	3.5576 37972	1.830919 708	0.00 1403	0.01 7227	Up
LOC101905 885	59.121 28569	92.12346539	26.11910599	0.2835 22834	- 1.818463 165	0.00 1051	0.01 3771	Down
LOC101905 937	299.84 6975	160.0475397	439.6464104	2.7469 73875	1.457843 19	0.00 0263	0.00 4571	Up
LOC101906 179	78.028 36072	27.65321004	128.4035114	4.6433 49224	2.215165 789	2.14 E-05	0.00 057	Up
LOC101906 282	20.824 63138	39.22273215	2.426530601	0.0618 65415	- 4.014723 074	0.00 6561	0.05 4245	Down
LOC101906 436	16.913 27946	31.45490409	2.37165483	0.0753 98571	- 3.729319 003	0.00 2956	0.03 015	Down
LOC101906 598	420.36 22336	41.33814626	799.3863209	19.337 73991	4.273347 285	9.55 E-09	6.56 E-07	Up
LOC101907 048	151.05 41523	66.12312629	235.9851782	3.5688 75089	1.835469 408	0.00 0443	0.00 703	Up
LOC101907 084	33.502 26084	48.7570333	18.24748838	0.3742 53459	- 1.417912 443	0.03 5286	0.18 0956	Down
LOC101907 185	6.9213 11169	12.72910234	1.113520002	0.0874 78282	- 3.514931 304	0.02 1484	0.12 8135	Down
LOC101907 229	87.436 58994	136.5096077	38.36357219	0.2810 3203	- 1.831193 526	0.00 0211	0.00 3868	Down
LOC101907 314	625.83 30494	866.9815015	384.6845972	0.4437 05657	- 1.172325 146	0.00 0957	0.01 2825	Down
LOC101907 390	83.301 41847	54.13051412	112.4723228	2.0777 98902	1.055056 031	0.03 5381	0.18 1044	Up
LOC101907 438	45.043 10229	16.50039534	73.58580924	4.4596 39161	2.156926 983	0.00 0629	0.00 9157	Up
LOC101908 130	15.757 15265	30.15067276	1.363632548	0.0452 27268	- 4.466663 348	0.01 6305	0.10 5197	Down
LOC101909 319	15.641 13158	5.98715413	25.29510904	4.2248 96919	2.078916 142	0.03 5435	0.18 1126	Up
LOC101909 551	32.488 00927	15.59879611	49.37722243	3.1654 50852	1.662410 996	0.01 6492	0.10 5979	Up

LOC101909 753	79.791 36305	123.089006	36.49372014	0.2964 82369	- 1.753981 778	0.00 0464	0.00 73	Dow n
LOC104968 414	280.79 87741	476.1038061	85.49374212	0.1795 69541	- 2.477385 434	0.00 9895	0.07 3322	Dow n
LOC104968 424	106.12 88446	65.34659435	146.9110948	2.2481 82882	1.168759 399	0.02 7016	0.14 9855	Up
LOC104968 426	125.32 0841	177.4894515	73.1522305	0.4121 49736	- 1.278759 526	0.00 3313	0.03 2737	Dow n
LOC104968 434	19.832 90775	2.465422038	37.20039346	15.088 85411	3.915411 343	6.07 E-05	0.00 1392	Up
LOC104968 448	127.84 98295	53.78905181	201.9106072	3.7537 49144	1.908332 241	4.40 E-05	0.00 1046	Up
LOC104968 450	522.45 95784	103.3930227	941.5261341	9.1062 83084	3.186862 309	1.75 E-15	4.13 E-13	Up
LOC104968 484	191.36 53499	38.86151015	343.8691897	8.8485 80212	3.145445 988	1.43 E-12	2.04 E-10	Up
LOC104968 668	18.241 19467	6.225375427	30.25701391	4.8602 71362	2.281036 866	0.01 0957	0.07 8843	Up
LOC104968 697	10.279 00817	3.222495701	17.33552063	5.3795 32587	2.427480 826	0.04 6648	0.21 7683	Up
LOC104968 712	594.13 11995	833.9112508	354.3511481	0.4249 26691	- 1.234714 129	0.00 0663	0.00 9547	Dow n
LOC104968 838	8.9815 31161	1.241451073	16.72161125	13.469 40819	3.751614 559	0.01 4773	0.09 8198	Up
LOC104968 894	5.1976 27889	10.39525578	0	0	#NAME?	0.00 3644	0.03 5	Dow n
LOC104969 591	126.70 89075	218.5256929	34.89212204	0.1596 7057	- 2.646829 667	1.80 E-08	1.13 E-06	Dow n
LOC104969 954	5.5456 20023	0.827634049	10.263606	12.401 14035	3.632400 885	0.04 9888	0.22 8025	Up
LOC104971 974	96.772 59502	154.2866654	39.25852465	0.2544 51832	- 1.974535 517	0.03 0677	0.16 3785	Dow n
LOC104972 129	28.468 93567	45.49829748	11.43957387	0.2514 28614	- 1.991779 25	0.00 5412	0.04 7171	Dow n
LOC104972 276	10.114 4254	0.783613802	19.445237	24.814 82199	4.633130 201	0.00 1586	0.01 8771	Up
LOC104972	100.71	137.8266344	63.60051485	0.4614	-	0.02	0.12	Dow

294	35746			53007	1.115744 36	0972	6161	n
LOC104972 773	41.498 57552	21.87159658	61.12555446	2.7947 45881	1.482717 109	0.01 9341	0.11 8566	Up
LOC104972 835	90.213 54711	40.61764329	139.8094509	3.4420 86728	1.783283 449	0.00 0325	0.00 5465	Up
LOC104972 858	15.045 90963	2.958859479	27.13295978	9.1700 73797	3.196933 344	0.00 199	0.02 2195	Up
LOC104973 427	29.554 28142	11.1291941	47.97936874	4.3111 2696	2.108065 05	0.00 4678	0.04 2316	Up
LOC104973 704	48.425 61714	17.35909954	79.49213474	4.5792 77545	2.195120 008	0.00 0352	0.00 5842	Up
LOC104973 785	146.29 9698	56.9751527	235.6242434	4.1355 6142	2.048083 195	5.84 E-06	0.00 0189	Up
LOC104973 854	279.66 94091	385.7274297	173.6113884	0.4500 88262	- 1.151720 154	0.00 2791	0.02 8794	Dow n
LOC104974 494	110.64 29181	147.7770322	73.50880398	0.4974 30507	- 1.007433 106	0.02 6465	0.14 789	Dow n
LOC104974 623	14.743 04005	5.543392166	23.94268793	4.3191 40197	2.110744 146	0.02 9457	0.15 9382	Up
LOC104974 854	162.64 90621	66.22119734	259.0769268	3.9122 9602	1.968015 534	9.68 E-06	0.00 029	Up
LOC104975 409	16.151 25725	3.244505824	29.05800867	8.9560 66115	3.162865 178	0.00 1844	0.02 0993	Up
LOC104975 474	25.570 7796	40.33893209	10.80262712	0.2677 96557	- 1.900790 683	0.01 0886	0.07 8555	Dow n
LOC104975 541	339.89 89528	673.4217739	6.376131697	0.0094 68259	- 6.722685 131	0.00 1226	0.01 5474	Dow n
LOC104975 620	260.05 47021	462.998733	57.11067119	0.1233 49519	- 3.019176 001	0.00 6541	0.05 4124	Dow n
LOC104975 635	167.24 19133	225.659653	108.8241735	0.4822 4914	- 1.052149 43	0.01 2565	0.08 6969	Dow n
LOC104975 830	548.39 49772	21.13993784	1075.650017	50.882 36421	5.669093 801	5.82 E-05	0.00 1335	Up
LOC104975 908	18.047 58573	34.98165146	1.113520002	0.0318 31545	- 4.973399 021	0.00 3407	0.03 336	Dow n
LOC104976	42.983	12.13743916	73.82957864	6.0827	2.604734	6.94	0.00	Up

252	5089			97013	861	E-05	1545	
LOC104976 349	34.132 66528	54.43312616	13.8322044	0.2541 13724	- 1.976453 801	0.00 3987	0.03 7315	Dow n
LOC404103	312.99 13277	518.9901753	106.9924801	0.2061 55117	- 2.278197 827	0.01 9887	0.12 0835	Dow n
LOC444875	29.844 00793	4.328481232	55.35953463	12.789 59794	3.676899 006	0.00 15	0.01 8068	Up
LOC504219	1703.2 55849	2419.915972	986.595726	0.4076 9834	- 1.294426 011	0.02 2035	0.13 031	Dow n
LOC504548	120.36 90666	70.05007148	170.6880617	2.4366 57923	1.284903 729	0.00 516	0.04 5562	Up
LOC504773	1231.8 21498	2308.611832	155.0311643	0.0671 53413	- 3.896395 46	0.00 0517	0.00 7918	Dow n
LOC506831	2387.4 03482	1047.38665	3727.420314	3.5587 81579	1.831383 39	2.36 E-07	1.11 E-05	Up
LOC507019	29.592 86736	8.947138824	50.23859589	5.6150 45981	2.489297 837	0.00 121	0.01 53	Up
LOC507513	363.24 33272	88.56199199	637.9246624	7.2031 42658	2.848626 477	1.91 E-12	2.61 E-10	Up
LOC507550	93.036 92086	6.942958858	179.1308829	25.800 36646	4.689319 652	0.00 0182	0.00 3415	Up
LOC508455	60.603 29656	24.7000058	96.50658732	3.9071 48367	1.966116 04	0.00 0363	0.00 5978	Up
LOC508547	1496.6 9214	2291.279283	702.1049976	0.3064 24888	- 1.706394 616	0.01 4069	0.09 4842	Dow n
LOC508744	162.34 16375	63.17234835	261.5109267	4.1396 42319	2.049506 119	3.02 E-06	0.00 0106	Up
LOC508879	230.05 43652	85.74454149	374.364189	4.3660 41062	2.126325 699	0.00 2304	0.02 4867	Up
LOC509029	86.641 30281	45.5271172	127.7554884	2.8061 40522	1.488587 256	0.00 29	0.02 9682	Up
LOC509055	967.73 93014	1553.089864	382.3887385	0.2462 11599	- 2.022029 368	2.37 E-08	1.42 E-06	Dow n
LOC509513	99.525 32459	35.0632209	163.9874283	4.6769 07143	2.225554 785	6.57 E-06	0.00 0208	Up
LOC509810	271.35 1315	158.560234	384.1423961	2.4226 90649	1.276610 2	0.00 1287	0.01 607	Up
LOC510193	1033.7	1482.488521	584.9489494	0.3945	-	0.00	0.00	Dow

	18735			7233	1.341638 307	0156	3004	n
LOC510369	155.01 64023	75.82216881	234.2106358	3.0889 46669	1.627114 963	0.00 0662	0.00 9544	Up
LOC510536	194.17 64148	269.0222914	119.3305382	0.4435 71191	- 1.172762 426	0.01 9813	0.12 0583	Down
LOC511180	279.78 24924	173.0534795	386.5115053	2.2334 80116	1.159293 411	0.00 3188	0.03 1851	Up
LOC511617	191.94 94655	89.512062	294.3868689	3.2887 95525	1.717559 314	3.96 E-05	0.00 0962	Up
LOC511713	257.50 96304	169.6760219	345.3432389	2.0353 09616	1.025248 277	0.01 168	0.08 2481	Up
LOC512005	34.667 62045	58.86031839	10.47492251	0.1779 62383	- 2.490355 775	0.03 942	0.19 395	Down
LOC512548	29.450 0592	1.981044628	56.91907376	28.731 84833	4.844578 9	7.44 E-08	3.91 E-06	Up
LOC512672	637.56 93014	915.715723	359.4228797	0.3925 04869	- 1.349217 545	0.00 0267	0.00 4632	Down
LOC512684	918.68 58291	593.5723371	1243.799321	2.0954 46912	1.067257 972	0.00 2755	0.02 8498	Up
LOC512867	86.344 76153	55.2466849	117.4428382	2.1257 8978	1.087998 936	0.02 5174	0.14 3092	Up
LOC513329	293.28 07798	51.54032621	535.0212334	10.380 63343	3.375822 576	2.37 E-15	5.52 E-13	Up
LOC513659	329.21 29312	445.7858358	212.6400266	0.4770 0041	- 1.067937 588	0.01 73	0.10 959	Down
LOC513911	49.129 84296	25.86360162	72.3960843	2.7991 49375	1.484988 477	0.03 8565	0.19 0932	Up
LOC514257	566.69 74164	786.2818074	347.1130253	0.4414 61346	- 1.179640 971	0.00 4829	0.04 3399	Down
LOC515150	281.52 51974	542.3736998	20.67669511	0.0381 22599	- 4.713209 708	0.00 0489	0.00 7605	Down
LOC515676	1460.5 60815	2905.171816	15.94981394	0.0054 90145	- 7.508940 085	0.00 2892	0.02 9649	Down
LOC515736	447.59 8448	248.2218368	646.9750593	2.6064 38932	1.382080 059	0.00 023	0.00 4103	Up
LOC516421	97.850	15.63327106	180.0677361	11.518	3.525848	4.22	4.64	Up

	50359			23796	127	E-11	E-09	
LOC517828	3.4048 2755	0	6.809655099	Inf	Inf	0.04 98	0.22 774	Up
LOC518080	60.367 23002	21.26470372	99.46975631	4.6776 93027	2.225797 188	8.84 E-05	0.00 1888	Up
LOC520336	492.32 92014	663.1276038	321.5307989	0.4848 70177	- 1.044329 573	0.00 4319	0.03 9813	Down
LOC520788	25.449 55439	5.740998017	45.15811077	7.8658 99037	2.975611 669	0.00 0268	0.00 4632	Up
LOC520966	32.050 23089	49.60102224	14.49943954	0.2923 21385	- 1.774372 718	0.00 9661	0.07 2179	Down
LOC521737	9.1585 09227	2.399391667	15.91762679	6.6340 26034	2.729884 674	0.03 9686	0.19 457	Up
LOC522437	53.061 49033	2.095625261	104.0273554	49.640 24692	5.633438 387	0.00 0535	0.00 8121	Up
LOC523126	46.466 52295	24.5849399	68.348106	2.7800 80256	1.475126 531	0.01 3774	0.09 3306	Up
LOC524576	26.246 17839	4.816263443	47.67609334	9.8989 79552	3.307279 811	0.00 163	0.01 9107	Up
LOC524810	1476.5 86026	202.7184826	2750.45357	13.567 84805	3.762120 013	0.00 3844	0.03 6355	Up
LOC525353	639.63 58616	942.8710743	336.4006489	0.3567 83295	- 1.486880 025	4.41 E-05	0.00 1046	Down
LOC525947	570.41 34879	206.0245965	934.8023793	4.5373 33868	2.181844 82	0.00 4812	0.04 329	Up
LOC526769	36.782 29163	13.31738987	60.24719338	4.5239 49059	2.177582 684	0.00 1356	0.01 6719	Up
LOC527057	129.58 23816	74.61488331	184.54988	2.4733 65524	1.306475 463	0.04 872	0.22 4785	Up
LOC527119	243.03 01333	38.73935442	447.3209122	11.546 9377	3.529438 389	8.55 E-16	2.25 E-13	Up
LOC527981	42.348 25898	16.12655381	68.56996415	4.2519 91154	2.088138 595	0.00 0993	0.01 3162	Up
LOC528098	1186.5 0663	2260.398439	112.6148206	0.0498 20783	- 4.327108 487	0.00 0237	0.00 4196	Down
LOC528479	45.816 98176	7.576391856	84.05757165	11.094 67056	3.471794 924	0.00 0223	0.00 4027	Up
LOC529196	59.064 82762	23.87124653	94.25840871	3.9486 16952	1.981347 421	0.00 0413	0.00 6608	Up
LOC530077	132.37	81.3475373	183.4073329	2.2546	1.172880	0.00	0.06	Up

	74351			14448	746	7688	1273	
LOC530173	7.2263 75169	0	14.45275034	Inf	Inf	0.00 134	0.01 6597	Up
LOC530929	211.99 38955	127.4882314	296.4995595	2.3257 0141	1.217665 885	0.00 3562	0.03 4491	Up
LOC531296	323.79 27634	118.7349922	528.8505345	4.4540 41093	2.155114 868	0.00 0714	0.01 0134	Up
LOC532205	11.263 27421	19.87355711	2.65299131	0.1334 93531	- 2.905158 264	0.01 0947	0.07 8801	Down
LOC533821	1868.5 16725	985.8198975	2751.213553	2.7907 87202	1.480672 123	2.99 E-05	0.00 0756	Up
LOC534967	197.72 55583	13.02721351	382.423903	29.355 77149	4.875572 267	1.54 E-22	1.21 E-19	Up
LOC537017	592.55 08422	840.1196446	344.9820399	0.4106 34416	- 1.284073 547	0.00 0365	0.00 6009	Down
LOC537580	20.036 08052	6.529141834	33.54301921	5.1374 31544	2.361047 265	0.00 6659	0.05 4824	Up
LOC537655	130.82 65094	248.083716	13.56930272	0.0546 96467	- 4.192408 548	0.00 8065	0.06 344	Down
LOC538435	12.345 65747	4.468476789	20.22283815	4.5256 67046	2.178130 449	0.04 9235	0.22 5939	Up
LOC540014	367.08 04899	242.7957901	491.3651898	2.0237 79694	1.017052 249	0.00 7733	0.06 1528	Up
LOC540707	592.01 83696	36.9795654	1147.057174	31.018 67643	4.955065 223	0.00 1306	0.01 6262	Up
LOC614141	19.119 92606	9.016573995	29.22327813	3.2410 62309	1.696466 756	0.04 7792	0.22 1907	Up
LOC614423	134.68 81642	188.1507698	81.22555853	0.4317 0463	- 1.211883 528	0.00 5961	0.05 0669	Down
LOC614705	563.74 97399	358.0469893	769.4524905	2.1490 26562	1.103683 315	0.00 2477	0.02 6257	Up
LOC615277	20.250 41573	3.15646533	37.34436614	11.831 07122	3.564508 801	0.00 0186	0.00 3476	Up
LOC615697	13.557 14668	0.805623925	26.30866943	32.656 26629	5.029287 946	0.00 7235	0.05 8379	Up
LOC615867	76.019 51347	147.0889757	4.95005128	0.0336 53449	- 4.893101 839	0.00 1047	0.01 3745	Down
LOC616111	3175.5 63905	4572.397059	1778.730751	0.3890 14936	- 1.362102	0.00 7078	0.05 739	Down

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LOC616478	86.004 69333	34.83116925	137.1782174	3.9383 75322	1.977600 605	0.02 4947	0.14 2113	Up
LOC616957	134.15 09185	267.2001429	1.101694084	0.0041 23104	- 7.922053 294	0.03 111	0.16 5436	Down
LOC617302	38.597 3015	12.38812528	64.80647771	5.2313 38578	2.387180 146	0.00 0417	0.00 6656	Up
LOC618367	65.376 23748	34.41054262	96.34193233	2.7997 79515	1.485313 218	0.00 6655	0.05 4824	Up
LOC618565	42.086 14192	23.22714303	60.94514081	2.6238 759	1.391699 487	0.02 9891	0.16 0885	Up
LOC768255	577.16 85729	299.9056094	854.4315363	2.8490 01518	1.510456 39	3.70 E-05	0.00 0908	Up
LOC781261	39.121 18748	7.712982613	70.52939235	9.1442 43659	3.192863 846	4.94 E-06	0.00 0164	Up
LOC781298	165.87 54574	230.6326055	101.1183093	0.4384 38915	- 1.189552 239	0.00 3935	0.03 6938	Down
LOC781635	7.1677 19704	0.413817024	13.92162238	33.641 97596	5.072190 54	0.00 5652	0.04 8665	Up
LOC781710	54.952 59531	30.01311148	79.89207915	2.6619 05921	1.412459 583	0.03 3174	0.17 307	Up
LOC782258	3.0884 12582	6.176825164	0	0	#NAME?	0.03 8139	0.18 9288	Down
LOC782922	4.6385 12263	9.007513964	0.269510562	0.0299 20638	- 5.062715 267	0.02 0429	0.12 3466	Down
LOC783396	43.225 50703	22.69470061	63.75631345	2.8093 0401	1.490212 755	0.01 7994	0.11 3002	Up
LOC783399	439.50 72828	18.46784992	860.5467157	46.597 01694	5.542165 694	1.04 E-19	4.98 E-17	Up
LOC783497	20.295 96541	9.385730819	31.20619999	3.3248 55634	1.733291 7	0.04 1435	0.19 9942	Up
LOC783508	12.568 21964	21.11224333	4.024195955	0.1906 09586	- 2.391307 421	0.02 4703	0.14 1168	Down
LOC783893	11.480 24865	2.8306888	20.12980849	7.1112 75705	2.830108 391	0.01 5976	0.10 3512	Up
LOC784007	2758.0 34125	4584.283406	931.7848446	0.2032 56379	- 2.298627 465	0.01 3422	0.09 1571	Down
LOC784148	101.98 1208	63.48015951	140.4822566	2.2130 10453	1.146010 266	0.01 7293	0.10 959	Up

LOC785756	49.581 14177	3.940079132	95.22220441	24.167 5868	4.595001 518	0.00 023	0.00 4105	Up
LOC786065	34.336 33366	10.20494479	58.46772253	5.7293 52165	2.518372 018	0.01 6021	0.10 3731	Up
LOC786165	338.85 67562	224.5196275	453.1938848	2.0185 04529	1.013286 824	0.00 6762	0.05 5448	Up
LOC786372	446.69 37277	250.8662382	642.5212173	2.5612 10396	1.356825 771	0.00 0354	0.00 586	Up
LOC786987	68.384 92331	33.62580361	103.144043	3.0674 07525	1.617019 851	0.00 2991	0.03 0453	Up
LOC787234	24.789 37853	12.49994107	37.07881599	2.9663 19264	1.568673 883	0.03 7457	0.18 7364	Up
LOC787269	337.79 0847	565.984918	109.5967759	0.1936 39039	- 2.368558 252	0.01 4797	0.09 8225	Down
LOC787891	103.24 61035	45.15568079	161.3365263	3.5728 95447	1.837093 697	9.98 E-05	0.00 2066	Up
LOC787904	11.931 7332	23.86346641	0	0	#NAME?	0.00 092	0.01 2413	Down
LOC788054	28.292 91415	11.48652605	45.09930225	3.9262 78673	1.973162 574	0.00 7389	0.05 9441	Up
LOC788414	183.57 6595	93.04306712	274.1101229	2.9460 56395	1.558785 048	0.02 1498	0.12 8168	Up
LOC788634	646.03 0086	415.7581999	876.3019721	2.1077 20238	1.075683 388	0.03 4319	0.17 736	Up
LOC789148	338.18 35619	451.6254776	224.7416462	0.4976 28361	- 1.006859 385	0.00 8748	0.06 7212	Down
LOC789374	239.25 33167	145.6136114	332.8930219	2.2861 39453	1.192913 41	0.00 2596	0.02 7239	Up
LOC789715	45.578 3275	22.09558788	69.06106712	3.1255 59162	1.644114 311	0.00 7118	0.05 7583	Up
LOC790312	44.203 6586	67.56296989	20.8443473	0.3085 17333	- 1.696576 549	0.00 4675	0.04 2316	Down
LONP2	2512.2 49358	1548.140141	3476.358576	2.2455 06388	1.167040 827	0.00 0797	0.01 1101	Up
LOX	2429.0 96875	4712.278446	145.9153041	0.0309 64916	- 5.013221 678	0.00 0575	0.00 8584	Down
LOXL1	3515.8 04164	5567.720082	1463.888247	0.2629 24182	- 1.927281 258	0.00 5053	0.04 4991	Down
LOXL2	2494.7	4302.707552	686.8441964	0.1596	-	9.92	5.06	Down

	75874			30695	2.647190 005	E-08	E-06	n
LOXL4	602.06 91073	1103.332917	100.8052974	0.0913 64352	- 3.452224 812	1.93 E-10	1.93 E-08	Dow n
LPAR2	267.41 4945	82.61543213	452.2144578	5.4737 28651	2.452523 918	4.05 E-09	3.06 E-07	Up
LPAR3	284.53 63347	43.42988146	525.642788	12.103 25173	3.597322 797	1.24 E-16	3.51 E-14	Up
LPCAT2	164.18 24822	234.6011075	93.76385695	0.3996 73548	- 1.323106 003	0.00 222	0.02 4194	Dow n
LPCAT3	862.25 31165	1262.739119	461.7671138	0.3656 86868	- 1.451319 275	0.04 0888	0.19 8323	Dow n
LPGAT1	263.28 17901	370.6200717	155.9435084	0.4207 63796	- 1.248917 518	0.00 1792	0.02 0558	Dow n
LPHN3	770.43 31133	1200.759801	340.1064253	0.2832 42681	- 1.819889 418	0.03 2198	0.16 9402	Dow n
LPL	3404.5 66573	6155.983161	653.1499859	0.1061 00028	- 3.236503 057	0.00 3342	0.03 2898	Dow n
LPP	701.78 66316	1169.754603	233.8186597	0.1998 86933	- 2.322743 934	0.00 9467	0.07 1079	Dow n
LPXN	129.78 08307	71.64770013	187.9139613	2.6227 49383	1.391079 957	0.00 1597	0.01 8877	Up
LRAT	137.74 72703	199.6308036	75.86373693	0.3800 20195	- 1.395852 006	0.02 8117	0.15 4034	Dow n
LRG1	18.568 6397	4.44193665	32.69534275	7.3606 05369	2.879824 425	0.00 2262	0.02 4557	Up
LRP1	24112. 33109	33691.82823	14532.83396	0.4313 45959	- 1.213082 654	0.00 2826	0.02 9118	Dow n
LRP1B	12.650 68448	25.30136896	0	0	#NAME?	0.02 0357	0.12 3068	Dow n
LRP3	202.00 87003	302.8906112	101.1267893	0.3338 72314	- 1.582631 63	0.04 8626	0.22 4574	Dow n
LRRC2	254.00 09535	53.0007533	455.0011538	8.5848 05412	3.101785 434	4.78 E-13	7.49 E-11	Up

LRRC23	29.056 78415	6.863338441	51.25022985	7.4672 45029	2.900576 072	0.00 0173	0.00 328	Up
LRRC27	221.82 13197	109.7963911	333.8462483	3.0405 94004	1.604353 193	9.26 E-05	0.00 196	Up
LRRC32	629.10 89268	952.4940221	305.7238316	0.3209 71916	- 1.639481 022	0.00 058	0.00 8646	Down
LRRC4C	119.78 61109	27.24392304	212.3282989	7.7936 02213	2.962290 298	1.18 E-09	1.04 E-07	Up
LRRC55	48.281 1713	79.36718296	17.19515963	0.2166 53269	- 2.206540 091	0.00 0218	0.00 3945	Down
LRRC56	34.595 28935	10.95359838	58.23698033	5.3166 98525	2.410530 663	0.00 0563	0.00 8427	Up
LRRC58	137.16 51564	201.260678	73.06963492	0.3630 59668	- 1.461721 424	0.00 098	0.01 3047	Down
LRRC59	1348.9 9936	1853.870129	844.1285919	0.4553 33186	- 1.135005 484	0.00 1014	0.01 3366	Down
LRRC6	73.418 49266	16.28418417	130.5528012	8.0171 53319	3.003090 064	1.06 E-07	5.36 E-06	Up
LRRC8B	663.06 9167	417.2346434	908.9036906	2.1783 99385	1.123268 48	0.00 239	0.02 5619	Up
LRRC8C	792.65 33649	1300.875988	284.4307415	0.2186 45547	- 2.193334 131	0.01 2458	0.08 6359	Down
LRRC8E	316.64 54472	131.3464105	501.9444839	3.8215 31794	1.934151 033	1.13 E-06	4.47 E-05	Up
LRRIQ1	21.716 7554	4.424456542	39.00905425	8.8166 88306	3.140236 857	0.00 0419	0.00 6689	Up
LRRN3	80.894 95906	36.65442882	125.1354893	3.4139 25501	1.771431 576	0.00 059	0.00 875	Up
LRRN4CL	2066.0 38772	3312.191116	819.8864276	0.2475 35966	- 2.014289 936	1.48 E-05	0.00 0411	Down
LSR	709.49 6745	264.0996906	1154.893799	4.3729 4643	2.128605 675	1.56 E-08	9.92 E-07	Up
LTA4H	1554.1 4903	817.5900202	2290.70804	2.8017 80824	1.486344 102	0.01 3508	0.09 199	Up
LTB	412.63 86234	271.3673521	553.9098947	2.0411 81043	1.029404 148	0.00 5017	0.04 4736	Up
LTBP1	8726.9 97141	14620.95345	2833.04083	0.1937 65806	- 2.367614	0.00 3895	0.03 6674	Down

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LTBP2	4132.1 4065	6839.15095	1425.130351	0.2083 78256	- 2.262723 35	0.00 304	0.03 0803	Dow n
LTC4S	99.613 28974	143.9473131	55.27926643	0.3840 24302	- 1.380730 483	0.00 3003	0.03 0563	Dow n
LTF	107526 .0071	4889.529305	210162.485	42.982 15061	5.425665 765	1.31 E-19	6.10 E-17	Up
LUM	20689. 44353	35391.5352	5987.351871	0.1691 74686	- 2.563414 38	0.00 0371	0.00 6081	Dow n
LUZP2	296.26 21541	33.39600238	559.1283059	16.742 37232	4.065432 061	3.87 E-11	4.33 E-09	Up
LY6E	1134.3 20003	369.6964614	1898.943545	5.1364 93699	2.360783 875	1.42 E-10	1.46 E-08	Up
LY75	226.16 30834	131.0084494	321.3177173	2.4526 48808	1.294340 671	0.03 0926	0.16 4603	Up
LY9	171.60 34777	108.4401252	234.7668303	2.1649 44295	1.114329 904	0.00 6724	0.05 5165	Up
LYG2	10.204 67993	3.24903584	17.16032402	5.2816 66582	2.400993 231	0.04 6201	0.21 6292	Up
LYPD2	9.5770 97067	1.959034504	17.19515963	8.7773 64357	3.133787 796	0.01 9105	0.11 7832	Up
LYPD3	497.36 48716	122.1192223	872.6105208	7.1455 62381	2.837047 561	2.68 E-13	4.46 E-11	Up
LYPD5	48.786 78076	28.38666311	69.18689841	2.4373 02974	1.285285 599	0.03 5161	0.18 0526	Up
LYPD6B	37.098 7465	5.225550452	68.97194254	13.198 98127	3.722354 678	5.90 E-07	2.53 E-05	Up
LYSMD3	608.43 62573	860.3159166	356.5565979	0.4144 4845	- 1.270735 428	0.00 0612	0.00 8963	Dow n
LYVE1	572.38 76128	1057.234298	87.54092761	0.0828 01823	- 3.594193 652	2.87 E-06	0.00 0101	Dow n
M1AP	70.274 53135	31.06765637	109.4814063	3.5239 67339	1.817200 553	0.00 1507	0.01 8109	Up
MAATS1	46.343 65393	27.30542339	65.38188446	2.3944 65141	1.259703 433	0.03 5368	0.18 1044	Up
MAB21L2	448.57 81493	71.88549448	825.2708042	11.480 35233	3.521095 014	2.70 E-15	6.20 E-13	Up
MAB21L3	10.504 77418	2.545042455	18.4645059	7.2550 87579	2.858993 03	0.01 7692	0.11 1685	Up

MACC1	142.34 83909	80.1275147	204.5692671	2.5530 46452	1.352219 787	0.02 3705	0.13 7275	Up
MAEL	18.806 08043	5.838098542	31.77406232	5.4425 36144	2.444279 083	0.00 637	0.05 3125	Up
MAF	248.04 11145	351.4693432	144.6128858	0.4114 52346	- 1.281202 746	0.00 2527	0.02 6639	Down
MAGED1	4679.4 0825	6335.526082	3023.290418	0.4771 96428	- 1.067344 85	0.00 1916	0.02 1594	Down
MAGEE2	80.374 66501	123.1436676	37.60566246	0.3053 804	- 1.711320 625	0.00 1484	0.01 7903	Down
MAGEL2	140.05 98005	201.9469782	78.17262282	0.3870 94788	- 1.369241 21	0.01 0714	0.07 7745	Down
MAK	36.987 68669	3.667382879	70.30799051	19.171 16178	4.260865 863	3.95 E-08	2.19 E-06	Up
MAL2	1476.9 10192	489.5003912	2464.319993	5.0343 57555	2.331807 685	2.27 E-10	2.25 E-08	Up
MAMDC2	396.04 85304	606.5075336	185.5895271	0.3059 97068	- 1.708410 264	0.00 5221	0.04 5923	Down
MAML3	504.73 54189	318.2303806	691.2404572	2.1721 38486	1.119116 086	0.00 3212	0.03 2043	Up
MAMSTR	102.62 11173	150.7142413	54.52799325	0.3617 97218	- 1.466746 779	0.00 7817	0.06 1889	Down
MAN1A1	2234.5 11608	3464.38128	1004.641936	0.2899 91734	- 1.785916 315	0.00 6612	0.05 4563	Down
MAN1A2	412.81 27964	554.3292434	271.2963493	0.4894 13742	- 1.030873 484	0.00 6183	0.05 1968	Down
MAN1C1	1061.9 79644	1490.544071	633.4152164	0.4249 55712	- 1.234615 602	0.00 1473	0.01 785	Down
MAN2A1	1541.0 50271	2108.434689	973.665854	0.4617 95596	- 1.114673 68	0.00 1439	0.01 7522	Down
MANF	1143.5 80941	1532.522247	754.6396349	0.4924 16757	- 1.022048 237	0.00 3318	0.03 2738	Down
MAOA	1359.6	2313.964026	405.298634	0.1751	-	1.91	1.57	Down

	3133			53386	2.513309 217	E-09	E-07	n
MAOB	1944.8 5505	3559.39288	330.3172202	0.0928 01562	- 3.429707 096	0.02 9653	0.16 0081	Dow n
MAP1A	4001.1 07259	6901.324517	1100.890001	0.1595 18654	- 2.648202 949	0.00 5693	0.04 8913	Dow n
MAP1B	6496.6 51096	11919.95309	1073.349102	0.0900 4642	- 3.473187 27	0.00 6401	0.05 3279	Dow n
MAP2	1134.9 69645	633.9968586	1635.942432	2.5803 63625	1.367574 385	0.00 0194	0.00 3599	Up
MAP3K1	1707.9 26593	1122.932083	2292.921104	2.0419 05418	1.029916 042	0.00 3257	0.03 241	Up
MAP3K7CL	103.55 17247	149.1973291	57.90612034	0.3881 17674	- 1.365433 963	0.00 3275	0.03 249	Dow n
MAP3K9	118.67 79936	59.10328271	178.2527045	3.0159 5269	1.592613 798	0.00 0718	0.01 0166	Up
MAP4K1	236.82 42971	142.7202175	330.9283767	2.3187 21079	1.213329 287	0.00 2067	0.02 288	Up
MAP7D3	1187.3 06012	1793.401945	581.2100796	0.3240 82441	- 1.625567 239	5.44 E-06	0.00 018	Dow n
MAP9	71.040 52743	45.76938325	96.31167161	2.1042 81613	1.073327 791	0.03 9763	0.19 4896	Up
MAPK13	670.34 56485	380.3539136	960.3373835	2.5248 52116	1.336198 89	0.03 7204	0.18 6675	Up
MAPK15	533.86 51125	216.2120241	851.5182009	3.9383 48039	1.977590 61	1.99 E-07	9.52 E-06	Up
MAPK8IP2	52.925 37364	15.23240413	90.61834315	5.9490 50615	2.572659 453	2.33 E-05	0.00 0617	Up
MAPT	333.78 02235	139.6553565	527.9050906	3.7800 56161	1.918407 669	0.00 1819	0.02 0796	Up
3-Mar	204.23 43204	314.9946555	93.47398516	0.2967 47845	- 1.752690 543	2.59 E-05	0.00 0671	Dow n
MARCKSL 1	1668.2 29301	815.7115628	2520.747038	3.0902 43112	1.627720 341	3.57 E-06	0.00 0123	Up
MARVELD 1	4836.3 22225	7374.71442	2297.930029	0.3115 95799	- 1.682252 314	0.01 0784	0.07 8094	Dow n
MARVELD	180.44	41.71636312	319.1739949	7.6510	2.935657	8.70	9.18	Up

3	5179			50356	818	E-11	E-09	
MATK	506.80 9875	198.1620068	815.4577432	4.1151 06405	2.040929 735	8.22 E-08	4.28 E-06	Up
MBNL1	5258.5 5678	7274.79637	3242.317189	0.4456 91814	- 1.165881 632	0.00 9616	0.07 1961	Down
MBNL2	2130.2 63647	2887.510865	1373.016429	0.4755 01736	- 1.072477 486	0.00 2234	0.02 4316	Down
MBP	207.82 39805	136.120875	279.527086	2.0535 21078	1.038099 756	0.01 0018	0.07 3874	Up
MCAM	9459.9 21942	14481.01953	4438.824355	0.3065 27061	- 1.705913 651	7.36 E-05	0.00 1622	Down
MCF2	186.22 47783	44.88301369	327.5665429	7.2982 29684	2.867546 555	4.67 E-06	0.00 0155	Up
MCOLN3	91.554 37935	57.65677623	125.4519825	2.1758 41083	1.121573 191	0.02 2872	0.13 3822	Up
MCTP1	403.63 05124	543.8356787	263.4253462	0.4843 84082	- 1.045776 638	0.04 3097	0.20 5956	Down
MDK	465.10 84221	199.6194852	730.5973591	3.6599 50122	1.871823 988	6.97 E-07	2.89 E-05	Up
ME1	440.83 35137	639.6764996	241.9905278	0.3783 0142	- 1.402391 905	0.00 1713	0.01 9874	Down
ME3	316.94 00319	469.7844292	164.0956345	0.3492 99858	- 1.517462 038	0.01 2031	0.08 4398	Down
MEDAG	2334.3 91844	4369.685588	299.0981006	0.0684 48426	- 3.868838 823	1.26 E-07	6.26 E-06	Down
MEF2C	340.88 62664	461.0062011	220.7663316	0.4788 7931	- 1.062265 989	0.00 5099	0.04 527	Down
MEF2D	833.18 32365	1174.176993	492.1894801	0.4191 7827	- 1.254364 166	0.00 0547	0.00 8247	Down
MEGF10	262.84 82623	104.6920841	421.0044405	4.0213 58865	2.007683 087	1.70 E-05	0.00 0465	Up
MEGF6	991.08 20109	1485.208547	496.9554753	0.3346 03162	- 1.579477 018	0.02 256	0.13 2547	Down
MEOX2	1122.0	1754.59494	489.5497311	0.2790	-	2.05	9.75	Down

	72336			10112	1.841610 684	E-07	E-06	n
MESDC1	314.66 99644	429.2218275	200.1181013	0.4662 3468	- 1.100871 775	0.00 4055	0.03 779	Dow n
MET	1065.2 78852	534.7148296	1595.842874	2.9844 74687	1.577477 018	1.07 E-05	0.00 0316	Up
METTL24	235.58 51723	316.1357268	155.0346178	0.4904 05242	- 1.027953 693	0.03 5217	0.18 0717	Dow n
MFAP2	2121.8 99059	3442.332904	801.4652144	0.2328 26178	- 2.102674 815	0.02 8215	0.15 4289	Dow n
MFAP5	6949.8 31106	12140.82827	1758.833945	0.1448 69354	- 2.787175 662	0.00 0592	0.00 877	Dow n
MFHAS1	717.20 27573	1031.897346	402.5081682	0.3900 66095	- 1.358209 492	0.03 4795	0.17 9255	Dow n
MFSD6	1535.1 69553	871.0657385	2199.273367	2.5248 07566	1.336173 434	0.00 0131	0.00 2577	Up
MFSD6L	90.320 67374	53.49206585	127.1492816	2.3769 74597	1.249126 485	0.01 1194	0.07 9982	Up
MGAT4A	158.59 63681	241.3204639	75.87227224	0.3144 04634	- 1.669305 611	9.94 E-05	0.00 2064	Dow n
MGAT5B	69.780 63554	33.70815971	105.8531114	3.1402 8153	1.650893 904	0.00 1741	0.02 0135	Up
MGC126945	492.68 21247	176.0914953	809.2727541	4.5957 51504	2.200300 792	0.00 023	0.00 4106	Up
MGC138914	8.4611 71751	0.413817024	16.50852648	39.893 29947	5.318074 545	0.00 1994	0.02 2226	Up
MGC139164	896.22 46108	1278.087453	514.3617687	0.4024 46458	- 1.313131 236	0.00 0217	0.00 3938	Dow n
MGC151921	5947.6 88206	383.3630689	11512.01334	30.029 00978	4.908284 997	3.14 E-27	5.19 E-24	Up
MGLL	2288.4 46811	3268.404997	1308.488624	0.4003 44702	- 1.320685 381	0.00 2289	0.02 4756	Dow n
MGST1	3866.8 03357	2565.922108	5167.684606	2.0139 6784	1.010040 646	0.00 3315	0.03 2737	Up
MIA	1138.7 63139	266.4452365	2011.081041	7.5478 21335	2.916060 273	1.17 E-14	2.47 E-12	Up

MIC1	291.66 72398	411.1424045	172.1920751	0.4188 13708	- 1.255619 431	0.01 1627	0.08 2228	Dow n
MICAL2	1244.2 20895	2008.388625	480.0531648	0.2390 24041	- 2.064772 364	0.00 326	0.03 2411	Dow n
MICALL2	2682.0 47091	1310.81989	4053.274293	3.0921 67219	1.628618 34	0.00 066	0.00 9532	Up
MID1IP1	511.57 80955	684.2432652	338.9129258	0.4953 10576	- 1.013594 669	0.00 6658	0.05 4824	Dow n
MILR1	150.65 75678	93.56669261	207.7484429	2.2203 24745	1.150770 701	0.02 0496	0.12 3749	Up
MISP	71.403 49028	26.45416874	116.3528118	4.3982 78886	2.136939 085	9.72 E-05	0.00 2033	Up
MITF	716.10 03072	1090.456737	341.7438776	0.3133 95173	- 1.673945 136	0.00 5378	0.04 701	Dow n
MKX	328.00 30623	630.7471079	25.25901681	0.0400 46187	- 4.642191 297	8.12 E-23	7.02 E-20	Dow n
MLKL	139.76 58915	196.9142022	82.61758071	0.4195 6131	- 1.253046 448	0.00 373	0.03 5644	Dow n
MLLT11	298.34 6022	450.7310185	145.9610254	0.3238 31774	- 1.626683 546	3.19 E-05	0.00 0801	Dow n
MLPH	611.26 79767	103.239613	1119.29634	10.841 7332	3.438523 505	5.90 E-18	2.06 E-15	Up
MME	2282.0 12901	840.6210914	3723.404711	4.4293 49619	2.147094 877	1.12 E-09	9.97 E-08	Up
MMP12	136.48 70389	3.724353219	269.2497246	72.294 3579	6.175811 153	4.13 E-07	1.84 E-05	Up
MMP13	14.789 99342	0	29.57998684	Inf	Inf	1.89 E-06	7.05 E-05	Up
MMP16	292.29 06118	512.1947684	72.38645527	0.1413 26034	- 2.822900 842	0.00 3578	0.03 4589	Dow n
MMP17	11.879 76213	21.03651298	2.723011275	0.1294 42141	- 2.949620 721	0.00 8224	0.06 4384	Dow n
MMP19	598.41 75459	816.4871633	380.3479285	0.4658 34548	- 1.102110 456	0.02 4303	0.13 967	Dow n

MMP2	25129.22795	40761.43367	9497.022237	0.232990388	-2.101657658	0.004763	0.042913	Down
MMP23B	991.1774051	1616.289176	366.0656339	0.226485235	-2.142511094	0.003034	0.030788	Down
MMP28	590.8321012	908.6927847	272.9714178	0.300400116	-1.735042726	0.015573	0.101556	Down
MMP7	82.88049012	5.877103512	159.8838767	27.20453645	4.765775341	1.81E-14	3.49E-12	Up
MMP9	214.4983169	5.671562845	423.3250709	74.63993302	6.221875786	7.45E-09	5.24E-07	Up
MMRN1	900.991298	1606.616042	195.3665544	0.121601272	-3.039769774	9.68E-11	1.02E-08	Down
MN1	630.2666978	1118.342092	142.1913034	0.12714473	-2.97545643	0.005676	0.048811	Down
MOB3B	523.8156915	287.1068791	760.5245039	2.648924701	1.405406834	0.000194	0.003599	Up
MOG	18.28730395	6.520081803	30.05452611	4.60953206	2.204620302	0.014183	0.095404	Up
MOK	122.1440827	73.54170394	170.7464614	2.321763738	1.215221171	0.0074	0.059498	Up
MORC4	408.0116161	561.120198	254.9030342	0.454275278	-1.138361298	0.002357	0.025333	Down
MOXD1	99.55909987	48.16324523	150.9549545	3.134235532	1.6481136	0.00053	0.008069	Up
MPEG1	1551.304724	867.9377421	2234.671706	2.574691245	1.364399436	0.000503	0.007742	Up
MPP2	131.9259087	68.0689977	195.7828198	2.876240673	1.5241844	0.000588	0.00873	Up
MPP6	76.60191831	123.9072202	29.29661637	0.236439945	-2.080454303	6.66E-05	0.001497	Down
MPPED2	129.9174251	42.45416235	217.3806878	5.120362191	2.356245864	3.59E-07	1.62E-05	Up
MPZL2	163.2064177	28.50060379	297.9122316	10.45283931	3.38582297	6.86E-13	1.06E-10	Up
MRAP2	35.51909927	65.12649312	5.911705433	0.090772666	-3.461598253	1.19E-06	4.71E-05	Down

MRAS	957.76 31893	1395.448304	520.0780745	0.3726 96053	- 1.423928 556	0.03 0325	0.16 2598	Dow n
MRC2	9383.9 78315	15283.55951	3484.397122	0.2279 83352	- 2.132999 618	0.01 2158	0.08 5004	Dow n
MREG	50.685 13243	24.71247063	76.65779423	3.1019 88279	1.633193 235	0.00 5226	0.04 5946	Up
MRGPRF	1230.8 69825	1946.096661	515.64299	0.2649 62682	- 1.916138 915	0.03 5855	0.18 2337	Dow n
MRO	42.486 06066	64.91690769	20.05521363	0.3089 36675	- 1.694616 945	0.00 6564	0.05 4245	Dow n
MS4A2	11.777 23973	21.69487564	1.859603819	0.0857 1627	- 3.544287 117	0.01 9492	0.11 9234	Dow n
MS4A7	120.94 06788	65.53173537	176.3496222	2.6910 56802	1.428172 843	0.00 7059	0.05 7261	Up
MS4A8	272.20 76046	140.942434	403.4727752	2.8626 77789	1.517365 296	9.84 E-05	0.00 2056	Up
M-SAA3.2	12903. 11584	557.0041351	25249.22754	45.330 41309	5.502407 403	9.93 E-23	8.20 E-20	Up
MSI1	33.526 61219	8.576216832	58.47700754	6.8185 08521	2.769456 199	0.00 0124	0.00 2465	Up
MSLN	225.00 64189	66.70195695	383.3108808	5.7466 21214	2.522713 958	0.01 9019	0.11 7524	Up
MSN	10424. 37318	14054.12938	6794.616985	0.4834 6054	- 1.048529 952	0.00 2111	0.02 3299	Dow n
MSRB3	3659.3 50227	5630.607146	1688.093308	0.2998 06622	- 1.737895 846	0.03 94	0.19 3901	Dow n
MSX1	267.57 19819	442.662591	92.4813728	0.2089 20687	- 2.258972 739	0.01 5083	0.09 9538	Dow n
MT1A	246.91 63068	32.19063674	461.6419768	14.340 87746	3.842061 394	3.10 E-10	2.96 E-08	Up
MT1E	134.02 05905	53.10703939	214.9341415	4.0471 87416	2.016919 658	0.00 3234	0.03 2209	Up
MTHFD2	246.05 88515	346.053289	146.064414	0.4220 86478	- 1.244389 483	0.00 1584	0.01 8768	Dow n
MTMR11	609.79	849.7458969	369.8392365	0.4352	-	0.00	0.01	Dow

	25667			35095	1.200133 201	0934	2555	n
MTMR7	101.04 73848	158.3876753	43.70709423	0.2759 50096	- 1.857520 707	0.01 4194	0.09 5444	Dow n
MTPN	1083.6 70549	1478.92725	688.413847	0.4654 81887	- 1.103203 065	0.00 1985	0.02 2165	Dow n
MTSS1	3171.2 0145	2029.617549	4312.78535	2.1249 25138	1.087412 015	0.00 4688	0.04 2382	Up
MUC16	101.19 53829	26.32162274	176.069143	6.6891 4469	2.741821 752	7.21 E-06	0.00 0227	Up
MX2	115.91 88573	56.3442212	175.4934934	3.1146 67125	1.639077 986	0.04 0313	0.19 6796	Up
MXRA7	5376.9 45851	8613.528681	2140.363021	0.2484 88523	- 2.008748 875	0.01 9407	0.11 8794	Dow n
MXRA8	2563.3 54291	3425.434401	1701.274181	0.4966 59396	- 1.009671 289	0.02 1465	0.12 8061	Dow n
MYADM	8187.6 38923	11866.16196	4509.115883	0.3799 97837	- 1.395936 887	4.64 E-05	0.00 1096	Dow n
MYB	693.43 21658	78.81227432	1308.052057	16.597 06015	4.052855 813	1.42 E-23	1.43 E-20	Up
MYBPH	523.59 62584	116.959217	930.2332999	7.9534 84335	2.991587 028	4.31 E-13	6.80 E-11	Up
MYCBPAP	110.80 52988	49.15160505	172.4589925	3.5087 15379	1.810942 923	0.00 0108	0.00 2199	Up
MYCL	90.820 70791	45.81227828	135.8291375	2.9649 06846	1.567986 778	0.00 1609	0.01 896	Up
MYCT1	794.29 57203	1134.01343	454.5780107	0.4008 57696	- 1.318837 922	0.01 1434	0.08 1183	Dow n
MYF5	24.521 7421	44.23772666	4.805757528	0.1086 34821	- 3.202441 484	0.01 2192	0.08 5064	Dow n
MYH10	5345.1 12075	7747.071671	2943.152479	0.3799 05157	- 1.396288 799	0.01 0056	0.07 4126	Dow n
MYH14	1159.2 34346	435.3872989	1883.081394	4.3250 71951	2.112724 133	1.01 E-08	6.86 E-07	Up
MYH7B	58.324 19955	32.70769478	83.94070431	2.5663 90107	1.359740 485	0.01 3663	0.09 2694	Up

MYL6	27345.96887	39684.8323	15007.10545	0.37815721	-1.40294197	0.03328	0.173421	Down
MYLK	18528.65382	31990.60929	5066.698349	0.158380802	-2.658530626	0.02602	0.14625	Down
MYO18B	14.27358977	27.15232305	1.394856483	0.051371534	-4.282887039	0.013935	0.094231	Down
MYO3A	209.6801215	26.73577033	392.6244727	14.68536226	3.87630695	5.07E-05	0.001183	Up
MYO5B	660.3960385	284.7384904	1036.053587	3.638614454	1.863389192	7.32E-06	0.000228	Up
MYO7A	41.35218569	62.44209506	20.26227633	0.324497061	-1.623722683	0.02931	0.159035	Down
MYOCD	1614.680027	2870.043606	359.316448	0.125195466	-2.997745774	0.007794	0.06184	Down
MYOZ1	76.13479977	40.35917704	111.9104225	2.772861855	1.471375742	0.003991	0.037331	Up
MYRF	251.2610611	384.4035643	118.118558	0.307277479	-1.702386064	2.61E-05	0.000675	Down
MZB1	129.2301861	46.63599312	211.8243791	4.542079302	2.183352895	1.78E-06	6.73E-05	Up
N4BP3	989.5385405	489.0975762	1489.979505	3.04638497	1.607098266	7.91E-06	0.000244	Up
NALCN	7.91976241	13.91747313	1.922051688	0.138103495	-2.85617826	0.035941	0.182423	Down
NARS2	604.1288352	354.0391438	854.2185267	2.412779891	1.27069631	0.000495	0.007661	Up
NBEAL1	320.2102684	488.7401531	151.6803837	0.310349749	-1.688033117	0.001523	0.01819	Down
NCALD	656.6798562	939.1971832	374.1625292	0.398385489	-1.327762996	0.000279	0.004802	Down
NCAM1	600.5691702	1168.534929	32.60341154	0.027901101	-5.163534116	0.009659	0.072179	Down
NCAM2	124.2100219	40.80634381	207.6136999	5.08778	2.347036289	7.48E-07	3.09E-05	Up

NCK2	918.47 27932	600.5940423	1236.351544	2.0585 47799	1.041626 948	0.00 3596	0.03 4723	Up
NCMAP	32.881 17945	8.179879915	57.58247899	7.0395 26201	2.815478 331	0.00 0114	0.00 2283	Up
NCS1	611.30 07646	990.5969332	232.004596	0.2342 06859	- 2.094144 769	0.00 121	0.01 53	Down
NDNF	575.64 76012	278.4494658	872.8457366	3.1346 64791	1.648311 175	0.00 0159	0.00 3045	Up
NDST3	35.273 31389	50.70572787	19.84089991	0.3912 95042	- 1.353671 265	0.03 9471	0.19 4042	Down
NDUFA4L2	424.95 55475	625.5191477	224.3919473	0.3587 29142	- 1.479033 144	0.00 3207	0.03 2008	Down
NEB	27.042 90041	42.24360641	11.84219441	0.2803 31047	- 1.834796 562	0.01 2808	0.08 831	Down
NECAB3	257.82 9825	363.9445888	151.7150611	0.4168 63077	- 1.262354 502	0.00 1392	0.01 7103	Down
NEDD4	853.04 89352	1169.229366	536.8685044	0.4591 64404	- 1.122917 293	0.00 1536	0.01 8315	Down
NEDD4L	1756.9 61119	881.5145086	2632.40773	2.9862 33016	1.578326 743	8.37 E-06	0.00 0257	Up
NEFM	465.46 18662	70.04088592	860.8828465	12.291 14731	3.619547 684	0.00 1616	0.01 8989	Up
NEK10	34.777 13063	12.90469806	56.6495632	4.3898 40268	2.134168 446	0.00 1701	0.01 9755	Up
NEK6	4343.8 18779	2521.66121	6165.976348	2.4452 04107	1.289954 895	0.00 0238	0.00 4204	Up
NEURL1	811.72 32993	86.42022159	1537.026377	17.785 49451	4.152629 183	7.75 E-25	9.38 E-22	Up
NEXN	2343.1 66674	4379.931176	306.4021722	0.0699 55933	- 3.837409 77	0.00 3692	0.03 5405	Down
NFATC1	994.40 5266	1399.225457	589.5850746	0.4213 65314	- 1.246856 535	0.04 3473	0.20 6936	Down
NFATC4	1513.2 02677	2144.77464	881.6307139	0.4110 59837	- 1.282579 676	0.00 1821	0.02 0808	Down
NFE2L3	770.45	176.1794474	1364.73681	7.7462	2.953505	1.64	3.31	Up

	81285			88402	215	E-14	E-12	
NFIL3	903.26 54601	1204.745627	601.7852928	0.4995 12328	- 1.001407 811	0.00 9526	0.07 1435	Dow n
NGFR	2286.9 11916	721.7816353	3852.042197	5.3368 526	2.415989 166	2.80 E-11	3.27 E-09	Up
NHS	322.35 28869	458.9339294	185.7718443	0.4047 89954	- 1.304754 608	0.00 3477	0.03 3938	Dow n
NHSL1	1600.6 98058	585.4123382	2615.983777	4.4686 17429	2.159828 537	1.51 E-09	1.29 E-07	Up
NHSL2	1844.3 12476	2982.163747	706.4612042	0.2368 95511	- 2.077677 235	0.00 0214	0.00 3908	Dow n
NID1	7269.3 24713	12293.50784	2245.141581	0.1826 2823	- 2.453018 304	0.00 0966	0.01 2895	Dow n
NID2	4179.9 69378	6601.781365	1758.15739	0.2663 15604	- 1.908791 134	1.77 E-07	8.55 E-06	Dow n
NIM1K	52.256 8567	24.21887849	80.29483492	3.3153 82045	1.729175 128	0.00 2633	0.02 7507	Up
NIPAL4	121.23 57833	210.8230422	31.64852444	0.1501 18906	- 2.735822 414	0.00 219	0.02 394	Dow n
NKAIN1	50.694 72432	84.77999933	16.60944931	0.1959 12355	- 2.351719 714	0.02 3665	0.13 7125	Dow n
NKAIN3	128.62 63404	205.4271747	51.8255061	0.2522 81648	- 1.986892 834	0.00 0757	0.01 0639	Dow n
NKG7	531.94 4906	246.7549095	817.1349025	3.3115 24395	1.727495 486	3.54 E-06	0.00 0122	Up
NKPD1	477.82 15917	179.8140621	775.8291213	4.3146 18735	2.109233 08	3.64 E-08	2.07 E-06	Up
NKX2-2	24.910 48586	43.18290155	6.638070162	0.1537 19873	- 2.701624 401	0.04 5658	0.21 4553	Dow n
NKX3-1	26.193 61868	1.981044628	50.40619274	25.444 24898	4.669267 704	5.60 E-07	2.44 E-05	Up
NLGN4X	5.1642 92727	10.32858545	0	0	#NAME?	0.00 3706	0.03 5525	Dow n
NLRC4	59.829 98903	34.19366234	85.46631571	2.4994 78262	1.321626 98	0.01 9108	0.11 7832	Up

NLRP1	220.29 98831	117.2047331	323.395033	2.7592 31853	1.464266 689	0.00 0257	0.00 4486	Up
NMB	275.66 65193	499.9704087	51.36262986	0.1027 3134	- 3.283051 732	1.18 E-12	1.76 E-10	Down
NME8	49.211 06045	21.59841507	76.82370584	3.5569 14042	1.830626 11	0.01 0183	0.07 4716	Up
NOD2	853.66 85255	381.8866211	1325.45043	3.4707 95667	1.795266 433	1.01 E-05	0.00 0301	Up
NOVA1	55.406 83469	95.20560581	15.60806358	0.1639 40594	- 2.608754 964	0.00 1525	0.01 8202	Down
NOVA2	91.642 51421	128.9361645	54.34886388	0.4215 1761	- 1.246335 191	0.00 8777	0.06 7375	Down
NOX4	208.77 67226	371.5809712	45.97247396	0.1237 21282	- 3.014834 412	6.80 E-07	2.85 E-05	Down
NOXA1	816.91 62865	297.1720334	1336.66054	4.4979 35167	2.169262 866	5.49 E-09	4.02 E-07	Up
NPAS3	146.92 16494	75.51660808	218.3266908	2.8911 08279	1.531622 642	0.00 0607	0.00 8927	Up
NPAS4	25.107 18463	47.2100215	3.004347756	0.0636 37924	- 3.973969 419	0.02 2114	0.13 0604	Down
NPC2	6402.0 3694	4016.782634	8787.291245	2.1876 44204	1.129378 119	0.00 1013	0.01 3366	Up
NPHS1	4.3073 5211	0	8.614704219	Inf	Inf	0.02 0043	0.12 1535	Up
NPPB	14.335 10991	28.40070926	0.269510562	0.0094 89572	- 6.719441 338	0.00 986	0.07 3181	Down
NPPC	13.538 98476	25.71859079	1.359378727	0.0528 55879	- 4.241792 238	0.02 5506	0.14 4257	Down
NPR1	1112.9 09469	1711.116119	514.7028185	0.3007 99468	- 1.733126 079	0.00 0166	0.00 3165	Down
NPR3	182.36 67184	356.0320185	8.701418398	0.0244 39988	- 5.354612 59	0.00 2406	0.02 576	Down
NPSR1	3.7316 61865	0	7.463323731	Inf	Inf	0.03 4418	0.17 7767	Up
NPTN	2288.9	3056.730286	1521.211345	0.4976	-	0.03	0.16	Down

	70815			59657	1.006768 657	1906	8485	n
NPW	36.839 85255	14.38777523	59.29192987	4.1209 93615	2.042992 228	0.03 1534	0.16 696	Up
NPY1R	1474.9 65542	2721.603261	228.3278237	0.0838 94603	- 3.575278 194	0.00 5019	0.04 4736	Dow n
NPY5R	155.20 48891	284.4520089	25.95776928	0.0912 55356	- 3.453946 957	0.02 6909	0.14 9538	Dow n
NR3C2	583.16 72527	365.2133949	801.1211105	2.1935 69901	1.133280 68	0.00 2515	0.02 6563	Up
NR4A1	4089.8 82031	7759.12203	420.6420324	0.0542 12581	- 4.205228 493	0.02 9398	0.15 922	Dow n
NRG1	217.69 08492	92.2170144	343.164684	3.7212 7298	1.895796 226	5.63 E-06	0.00 0183	Up
NRG3	14.052 23721	3.618832617	24.4856418	6.7661 71414	2.758339 727	0.00 9763	0.07 2702	Up
NRIP2	109.94 46692	72.05105168	147.8382866	2.0518 54667	1.036928 548	0.02 7731	0.15 2747	Up
NRIP3	130.22 42189	230.7665649	29.68187288	0.1286 22935	- 2.958780 179	0.00 7501	0.06 0234	Dow n
NRK	23.160 40645	40.99875053	5.322062359	0.1298 10355	- 2.945522 623	0.00 0368	0.00 6055	Dow n
NRP2	3394.7 78274	4817.481164	1972.075383	0.4093 58193	- 1.288564 325	0.00 0168	0.00 3181	Dow n
NRTN	34.066 49999	13.15021422	54.98278576	4.1811 32324	2.063893 702	0.00 2919	0.02 9826	Up
NSUN7	120.44 31169	32.66999888	208.2162349	6.3733 16256	2.672044 252	4.16 E-08	2.30 E-06	Up
NTAN1	2289.7 57422	3097.234134	1482.280709	0.4785 82065	- 1.063161 761	0.02 3304	0.13 5601	Dow n
NTF4	121.46 70063	37.47720229	205.4568104	5.4821 81108	2.454749 989	3.49 E-07	1.58 E-05	Up
NTM	11.197 80821	21.06320781	1.332408614	0.0632 5763	- 3.982616 676	0.00 1209	0.01 53	Dow n
NTN1	617.86 33144	328.9351004	906.7915283	2.7567 49058	1.462967 947	7.55 E-05	0.00 1647	Up

NTNG1	101.43 64541	66.64826587	136.2246423	2.0439 33784	1.031348 459	0.02 6945	0.14 9599	Up
NUAK1	236.03 47499	323.4130201	148.6564798	0.4596 49026	- 1.121395 411	0.00 6154	0.05 177	Down
NUCB1	10111. 4625	13572.79423	6650.130765	0.4899 60332	- 1.029263 144	0.01 3048	0.08 95	Down
NUCB2	1628.8 48118	2382.26049	875.4357471	0.3674 81118	- 1.444257 974	6.17 E-05	0.00 1407	Down
NUGGC	131.97 52562	25.71959046	238.2309219	9.2626 25011	3.211421 109	6.33 E-06	0.00 0203	Up
NUP210	600.36 47131	297.3341815	903.3952447	3.0383 16147	1.603271 995	1.34 E-05	0.00 038	Up
NUP62CL	153.31 2839	96.87141888	209.7542591	2.1652 85298	1.114557 127	0.00 8043	0.06 3323	Up
NUPL2	100.99 56167	135.0990399	66.89219349	0.4951 34485	- 1.014107 663	0.02 8074	0.15 3937	Down
NWD1	9.7721 97857	2.540512439	17.00388327	6.6930 91917	2.742672 827	0.02 6669	0.14 8477	Up
NXPE4	253.13 67523	338.2555372	168.0179674	0.4967 19045	- 1.009498 032	0.01 0608	0.07 7162	Down
NXPH2	26.263 98663	5.648427507	46.87954575	8.2995 7465	3.053037 401	0.00 0177	0.00 3343	Up
NXPH4	35.887 43514	59.28422428	12.490646	0.2106 9089	- 2.246800 157	0.00 1759	0.02 0262	Down
OAF	1260.0 94871	1948.94412	571.2456226	0.2931 05183	- 1.770509 616	4.81 E-05	0.00 1131	Down
OBSL1	1638.1 23765	1026.873432	2249.374097	2.1905 07638	1.131265 245	0.00 1103	0.01 4281	Up
OCLN	1068.5 5363	651.8077328	1485.299528	2.2787 38734	1.188235 524	0.01 4357	0.09 6219	Up
ODF3B	29.643 64206	3.222495701	56.06478842	17.397 94049	4.120844 63	9.50 E-07	3.85 E-05	Up
OGN	18551. 63764	34368.96535	2734.309921	0.0795 57528	- 3.651857 741	0.01 1175	0.07 9908	Down
OLFML1	1640.8 88954	2562.680079	719.0978292	0.2806 03824	- 1.833393	0.00 5518	0.04 7732	Down

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OLFML2B	1816.1 12103	3205.0667	427.1575065	0.1332 757	- 2.907514 34	0.00 3073	0.03 1044	Dow n
OMD	181.08 62089	336.6954756	25.4769422	0.0756 67611	- 3.724180 297	0.02 5615	0.14 4555	Dow n
OPN1LW	45.474 52923	88.73384438	2.215214086	0.0249 64703	- 5.323966 437	0.03 758	0.18 7604	Dow n
OR2H1	40.330 24018	21.78355609	58.87692428	2.7028 15098	1.434462 819	0.02 5915	0.14 5798	Up
OR4D9	8.1539 12633	15.46381583	0.844009441	0.0545 79636	- 4.195493 414	0.02 8802	0.15 679	Dow n
OR51E1	822.67 38311	342.0227977	1303.324865	3.8106 374	1.930032 335	1.71 E-07	8.27 E-06	Up
ORM1	54.183 85272	2.910309217	105.4573962	36.235 80464	5.179344 026	0.00 3709	0.03 5537	Up
OSBPL3	614.08 61999	327.6756257	900.4967742	2.7481 34752	1.458452 747	6.21 E-05	0.00 1414	Up
OSBPL6	564.11 65182	755.2312432	373.0017932	0.4938 9084	- 1.017735 883	0.00 5547	0.04 7887	Dow n
OSR2	258.40 66816	374.9158644	141.8974988	0.3784 78246	- 1.401717 714	0.02 9283	0.15 9035	Dow n
OSTN	103.19 29929	202.8383631	3.5476227	0.0174 899	- 5.837334 143	7.74 E-08	4.06 E-06	Dow n
OVGP1	104.42 75213	68.16256789	140.6924746	2.0640 72393	1.045493 571	0.02 4323	0.13 9734	Up
OVOL2	246.89 3953	79.68214226	414.1057637	5.1969 70763	2.377670 943	1.92 E-08	1.19 E-06	Up
OXCT1	1067.9 74473	1503.746246	632.2027	0.4204 18473	- 1.250102 034	0.00 0401	0.00 646	Dow n
OXTR	179.80 28128	115.6354389	243.9701867	2.1098 21946	1.077121 251	0.01 1194	0.07 9982	Up
P2RX3	170.67 86995	58.34088439	283.0165147	4.8510 83724	2.278307 079	2.54 E-07	1.19 E-05	Up
P2RX6	20.539 09276	37.10461151	3.973574005	0.1070 91109	- 3.223089 383	0.01 5592	0.10 1558	Dow n

P2RY1	40.683 01124	59.54394129	21.82208119	0.3664 87013	- 1.448166 019	0.02 1263	0.12 7149	Dow n
P2RY10	53.037 70148	26.00812719	80.06727576	3.0785 483	1.622250 204	0.00 3944	0.03 6966	Up
P2RY11	18.971 12671	7.022579275	30.91967415	4.4028 94284	2.138452 205	0.01 5311	0.10 0497	Up
P2RY13	82.015 95343	50.41294135	113.6189655	2.2537 65848	1.172337 636	0.01 6856	0.10 7564	Up
P2RY2	167.18 2564	48.35960032	286.0055277	5.9141 41675	2.564168 804	1.39 E-08	8.90 E-07	Up
P2RY6	139.29 54733	49.64279206	228.9481546	4.6119 11318	2.205364 772	1.42 E-06	5.52 E-05	Up
P3H1	2298.1 03773	3393.473858	1202.733689	0.3544 25506	- 1.496445 665	0.00 0122	0.00 2436	Dow n
P3H4	1103.5 02886	1796.548101	410.4576713	0.2284 70182	- 2.129922 207	0.00 0166	0.00 3155	Dow n
P4HA1	1927.3 0043	3029.607133	824.9937278	0.2723 10465	- 1.876675 667	1.86 E-06	6.93 E-05	Dow n
P4HA2	3596.7 9812	5730.090055	1463.506185	0.2554 07188	- 1.969128 97	2.52 E-05	0.00 0656	Dow n
P4HA3	529.32 60055	1004.369555	54.2824556	0.0540 46297	- 4.209660 407	0.00 1335	0.01 6552	Dow n
PABPC1L2 A	91.412 90049	40.41678734	142.4090136	3.5235 11467	1.817013 909	0.00 0227	0.00 4072	Up
PABPC5	26.505 72402	45.17769091	7.83375712	0.1733 98794	- 2.527834 23	0.00 0881	0.01 1952	Dow n
PACSIN1	69.346 88947	22.80475123	115.8890277	5.0817 93111	2.345337 642	2.04 E-05	0.00 0547	Up
PACSIN3	865.80 14639	562.5829169	1169.020011	2.0779 51491	1.055161 975	0.00 3364	0.03 3085	Up
PADI2	514.85 6959	174.9603582	854.7535597	4.8854 12723	2.288480 447	2.52 E-09	1.98 E-07	Up
PAG1	43.756 43137	62.87439187	24.63847087	0.3918 68138	- 1.351559 82	0.02 5093	0.14 2677	Dow n
PAK4	1751.5 41823	960.0370246	2543.046622	2.6489 04737	1.405395 961	8.03 E-05	0.00 1735	Up

PAK6	345.73 05965	152.7610228	538.7001702	3.5264 24216	1.818206 036	7.89 E-05	0.00 1711	Up
PALD1	370.46 25716	526.496012	214.4291312	0.4072 75889	- 1.295921 688	0.00 0592	0.00 877	Down
PALLD	6613.4 67179	10126.58695	3100.347404	0.3061 59165	- 1.707646 225	0.01 4405	0.09 629	Down
PALM2	137.89 04053	209.9138176	65.86699303	0.3137 81121	- 1.672169 541	0.04 2026	0.20 2006	Down
PALM3	203.28 98636	110.3275536	296.2521737	2.6852 05682	1.425032 601	0.00 0709	0.01 0093	Up
PANX2	52.718 66045	9.447871128	95.98944977	10.159 90253	3.344814 656	1.24 E-07	6.21 E-06	Up
PAPLN	6011.9 52977	1576.499283	10447.40667	6.6269 65696	2.728348 451	7.69 E-09	5.39 E-07	Up
PAPPA	199.23 6486	345.3040087	53.16896326	0.1539 77255	- 2.699210 842	0.00 0216	0.00 3933	Down
PAPPA2	584.14 30125	858.2534732	310.0325518	0.3612 36583	- 1.468984 092	6.11 E-05	0.00 1398	Down
PAQR7	526.12 18192	905.1004925	147.1431458	0.1625 71059	- 2.620857 641	0.00 5924	0.05 047	Down
PARD6B	85.705 06244	33.6691839	137.740941	4.0910 09197	2.032456 781	7.84 E-05	0.00 1704	Up
PARP10	1128.5 98652	695.7962512	1561.401052	2.2440 49244	1.166104 335	0.00 1036	0.01 3639	Up
PARVA	1789.2 18017	2460.665278	1117.770757	0.4542 55508	- 1.138424 086	0.00 4748	0.04 2844	Down
PARVB	414.88 08264	638.028635	191.7330179	0.3005 08484	- 1.734522 373	0.00 011	0.00 2214	Down
PARVG	119.05 45058	74.41107866	163.6979329	2.1999 13452	1.137446 767	0.01 0664	0.07 7539	Up
PATZ1	1289.2 93113	668.6620977	1909.924129	2.8563 36759	1.514166 082	2.74 E-05	0.00 0705	Up
PAX1	21.955 292	6.035704392	37.87487962	6.2751 3827	2.649647 249	0.00 2091	0.02 3114	Up
PBK	145.82 76572	199.719865	91.9354494	0.4603 22009	- 1.119284	0.00 8296	0.06 4807	Down

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PBX4	91.781 40892	36.80524958	146.7575683	3.9874 08588	1.995451 445	6.65 E-05	0.00 1496	Up
PCDH10	9.9270 53067	17.06439317	2.789712965	0.1634 81522	- 2.612800 516	0.02 3737	0.13 7376	Down
PCDH11X	32.455 09248	63.81606298	1.094121987	0.0171 44931	- 5.866074 105	0.01 548	0.10 1133	Down
PCDH17	202.69 92645	369.7395333	35.65899572	0.0964 43557	- 3.374171 33	9.21 E-09	6.36 E-07	Down
PCDH18	1060.2 35171	1730.045187	390.4251541	0.2256 73385	- 2.147691 81	0.00 9222	0.06 9789	Down
PCDH19	79.627 70596	107.9336121	51.32179984	0.4754 94138	- 1.072500 54	0.03 0428	0.16 2762	Down
PCDH7	1377.9 05917	1937.543724	818.2681108	0.4223 22398	- 1.243583 333	0.00 2376	0.02 5502	Down
PCDHB11	90.778 85425	126.5485394	55.00916907	0.4346 88297	- 1.201946 841	0.04 0428	0.19 7152	Down
PCDHB15	80.420 16613	114.7508557	46.08947653	0.4016 48216	- 1.315995 625	0.00 8454	0.06 556	Down
PCLO	57.000 84453	6.427511293	107.5741778	16.736 52101	4.064927 763	4.72 E-10	4.33 E-08	Up
PCOLCE	13634. 61379	23950.15274	3319.074833	0.1385 82617	- 2.851181 794	0.02 761	0.15 2403	Down
PCOLCE2	1469.9 46759	2678.491597	261.4019217	0.0975 92959	- 3.357079 118	1.56 E-19	7.08 E-17	Down
PCP4L1	246.68 15797	430.2201685	63.14299087	0.1467 69016	- 2.768380 656	0.02 7304	0.15 0901	Down
PCSK6	943.78 26997	1427.408763	460.1566363	0.3223 72013	- 1.633201 594	0.00 2428	0.02 5889	Down
PDCD4	10055. 80934	6392.588687	13719.03	2.1460 8364	1.101706 304	0.00 4069	0.03 7867	Up
PDCL2	3.9853	0	7.970799848	Inf	Inf	0.02	0.15	Up

	99924					7835	3134	
PDE10A	340.77 67549	523.1184298	158.43508	0.3028 66561	- 1.723245 792	0.00 1406	0.01 7231	Dow n
PDE11A	12.538 77631	22.37393936	2.70361326	0.1208 37606	- 3.048858 593	0.00 5135	0.04 5495	Dow n
PDE1A	372.54 47035	661.8257574	83.26364957	0.1258 09019	- 2.990692 74	6.41 E-09	4.56 E-07	Dow n
PDE1B	228.28 06401	349.9452279	106.6160523	0.3046 6497	- 1.714704 466	0.00 2427	0.02 5884	Dow n
PDE4B	1004.8 88946	1428.640724	581.1371684	0.4067 76286	- 1.297692 517	0.02 6553	0.14 8058	Dow n
PDE5A	172.08 11064	295.1981802	48.96403258	0.1658 68342	- 2.591889 542	0.01 2632	0.08 7263	Dow n
PDE7A	1078.9 95366	511.8589471	1646.131784	3.2159 87126	1.685261 631	2.67 E-06	9.53 E-05	Up
PDE7B	713.39 26018	979.8213638	446.9638397	0.4561 68702	- 1.132360 629	0.00 1627	0.01 9081	Dow n
PDE8A	636.35 14548	869.5788226	403.1240871	0.4635 85447	- 1.109092 818	0.00 249	0.02 6363	Dow n
PDGFD	592.22 9833	1012.273074	172.1865923	0.1700 98955	- 2.555553 814	7.07 E-05	0.00 1571	Dow n
PDGFRA	6036.6 27347	9988.131316	2085.123378	0.2087 60109	- 2.260082 037	0.02 5545	0.14 4298	Dow n
PDGFRL	1633.0 05757	2734.422111	531.5894026	0.1944 06489	- 2.362851 719	0.02 9332	0.15 907	Dow n
PDK3	684.10 60356	964.2132576	403.9988135	0.4189 93216	- 1.255001 21	0.00 9298	0.07 019	Dow n
PDLIM7	7952.1 90045	12148.59838	3755.781708	0.3091 535	- 1.693604 757	0.00 5644	0.04 8633	Dow n
PDP1	1004.4 66843	1395.562282	613.3714032	0.4395 15607	- 1.186013	0.03 0601	0.16 3449	Dow n

					7			
PDPN	227.08 27438	322.5974408	131.5680468	0.4078 3971	- 1.293925 841	0.00 1189	0.01 5096	Dow n
PDZD4	93.644 39788	60.13386846	127.1549273	2.1145 30972	1.080337 692	0.02 8191	0.15 4289	Up
PDZK1	251.87 55436	54.36323488	449.3878523	8.2663 9278	3.047257 915	1.21 E-12	1.80 E-10	Up
PDZK1IP1	113.04 76402	54.13279371	171.9624867	3.1766 78588	1.667519 127	0.00 0483	0.00 7539	Up
PEA15	7442.5 38807	10540.74172	4344.335894	0.4121 47077	- 1.278768 83	0.00 4368	0.04 0135	Dow n
PEAK1	2751.3 77372	4117.716133	1385.03861	0.3363 60877	- 1.571918 182	0.00 0395	0.00 6391	Dow n
PECAM1	8866.7 13588	12629.55839	5103.868786	0.4041 20922	- 1.307141 049	0.00 01	0.00 2066	Dow n
PEG10	250.75 51895	374.4700438	127.0403351	0.3392 53666	- 1.559563 69	8.65 E-05	0.00 1854	Dow n
PERP	1722.5 16976	434.5817544	3010.452198	6.9272 40196	2.792280 699	4.92 E-14	9.03 E-12	Up
PEX5L	28.312 84357	9.429751066	47.19593608	5.0050 03393	2.323371 047	0.00 1975	0.02 2076	Up
PGAM1	4730.3 41217	6603.6243	2857.058134	0.4326 50012	- 1.208727 651	0.00 0411	0.00 6579	Dow n
PGBD5	78.879 35697	46.35006654	111.4086474	2.4036 35112	1.265217 902	0.01 5328	0.10 0537	Up
PGK1	5619.1 51477	7853.929189	3384.373764	0.4309 14729	- 1.214525 685	0.00 0919	0.01 2403	Dow n
PGLYRP1	175.91 44409	107.2097918	244.6190899	2.2816 86083	1.190100 318	0.02 704	0.14 9896	Up
PGLYRP2	31.889 16223	15.15050413	48.62782033	3.2096 50314	1.682416 127	0.01 3964	0.09 4349	Up
PGM2L1	181.26 39383	244.7289165	117.7989601	0.4813 44672	- 1.054857 773	0.01 1646	0.08 2269	Dow n
PGM3	690.12 18512	988.0387887	392.2049137	0.3969 52952	- 1.332960 07	0.00 0232	0.00 413	Dow n

PHACTR2	225.32 09575	326.1708266	124.4710885	0.3816 13187	- 1.389817 071	0.00 051	0.00 7838	Dow n
PHEX	3.5993 30132	7.198660263	0	0	#NAME?	0.02 2653	0.13 2925	Dow n
PHLDB2	3695.3 51677	5325.943771	2064.759584	0.3876 79569	- 1.367063 39	0.00 785	0.06 2071	Dow n
PHLPP1	843.76 68493	561.575395	1125.958304	2.0049 99353	1.003601 771	0.00 5424	0.04 7181	Up
PHTF2	482.69 08105	696.5277191	268.8539019	0.3859 91676	- 1.373358 358	0.01 7404	0.11 0171	Dow n
PHYHIP	170.16 44286	72.77964416	267.5492131	3.6761 54454	1.878197 383	2.27 E-05	0.00 0603	Up
PHYHIPL	4.8145 61043	9.629122085	0	0	#NAME?	0.00 5683	0.04 8854	Dow n
PI16	25744. 7194	44935.24873	6554.190069	0.1458 58547	- 2.777358 172	2.98 E-05	0.00 0755	Dow n
PIANP	8.4419 62909	1.637787989	15.24613783	9.3089 81339	3.218623 305	0.02 2802	0.13 3673	Up
PID1	698.80 7894	1003.632632	393.9831556	0.3925 5714	- 1.349025 43	0.02 1459	0.12 8061	Dow n
PIEZO2	772.38 80324	1263.680745	281.0953202	0.2224 41721	- 2.168500 687	0.03 698	0.18 6039	Dow n
PIGA	404.19 72746	573.0339801	235.3605691	0.4107 27072	- 1.283748 051	0.00 6783	0.05 5596	Dow n
PIH1D2	40.200 70125	23.15430305	57.24709945	2.4724 173	1.305922 265	0.03 6777	0.18 5468	Up
PIK3AP1	2010.9 76232	679.2315898	3342.720873	4.9213 27164	2.299047 428	7.07 E-08	3.75 E-06	Up
PIK3C2G	73.932 5154	37.1203556	110.7446752	2.9833 94781	1.576954 897	0.00 3309	0.03 2723	Up
PIK3IP1	919.27 8334	593.8831059	1244.673562	2.0958 22477	1.067516 521	0.00 274	0.02 8372	Up
PIK3R2	1641.8 91931	1069.133527	2214.650334	2.0714 44097	1.050636 886	0.00 2522	0.02 6622	Up
PIM1	874.26 15231	1326.749329	421.7737167	0.3179 00079	- 1.653354 72	0.00 2615	0.02 7381	Dow n

PIP5K1B	607.52 56084	339.8048949	875.246322	2.5757 31943	1.364982 459	0.00 0432	0.00 6867	Up
PITPNC1	1285.7 85797	1802.058895	769.5126988	0.4270 18618	- 1.227629 122	0.00 0538	0.00 8144	Down
PITPNM3	119.56 8506	64.99299777	174.1440142	2.6794 27326	1.421924 686	0.00 1542	0.01 8368	Up
PITX2	8.3011 12041	15.82066251	0.781561572	0.0494 01318	- 4.339306 671	0.03 3457	0.17 3994	Down
PKD1	7652.2 25162	11309.29518	3995.155143	0.3532 62965	- 1.501185 587	0.00 0302	0.00 5102	Down
PKD2	2394.3 58922	3328.157621	1460.560224	0.4388 49475	- 1.188201 914	0.02 8685	0.15 6389	Down
PKHD1L1	376.06 61043	661.0773677	91.05484081	0.1377 37041	- 2.860011 501	0.03 1915	0.16 8485	Down
PKIG	740.26 93943	1106.718033	373.8207559	0.3377 74162	- 1.565869 122	2.03 E-05	0.00 0547	Down
PKLR	48.898 40316	71.88901685	25.90778947	0.3603 8592	- 1.472385 448	0.02 9817	0.16 0681	Down
PKNOX2	587.23 59476	1082.421342	92.0505532	0.0850 41332	- 3.555691 988	0.02 2831	0.13 3673	Down
PKP1	819.65 56632	299.3452205	1339.966106	4.4763 23703	2.162314 368	9.69 E-09	6.59 E-07	Up
PKP2	306.67 96742	130.0441282	483.3152202	3.7165 47812	1.893963 168	2.57 E-06	9.28 E-05	Up
PKP3	576.35 0676	205.8174454	946.8839066	4.6006 00814	2.201822 282	7.07 E-08	3.75 E-06	Up
PLA1A	69.307 50663	100.5124163	38.10259694	0.3790 83484	- 1.399412 493	0.00 7939	0.06 2664	Down
PLA2G2F	5.7102 86829	0.391806901	11.02876676	28.148 47501	4.814984 859	0.02 8225	0.15 4296	Up
PLA2R1	430.48 69053	589.7560119	271.2177988	0.4598 81363	- 1.120666 361	0.00 264	0.02 7548	Down
PLAC8	307.54 80001	174.6054191	440.4905811	2.5227 77262	1.335012 835	0.04 4306	0.20 9908	Up

PLAC9	1159.0 37	1967.903435	350.1705652	0.1779 40929	- 2.490529 706	0.00 0107	0.00 217	Dow n
PLAU	1620.4 86191	2469.834005	771.1383773	0.3122 22755	- 1.679352 409	4.31 E-05	0.00 1028	Dow n
PLAUR	577.62 55139	801.4776968	353.773331	0.4414 01342	- 1.179837 079	0.01 7863	0.11 2374	Dow n
PLB1	239.52 94187	78.24679155	400.8120458	5.1224 087	2.356822 365	1.88 E-08	1.18 E-06	Up
PLCB2	308.86 6899	195.743437	421.990361	2.1558 34021	1.108246 108	0.00 3402	0.03 3354	Up
PLCB4	1292.5 11814	1975.306306	609.7173212	0.3086 69759	- 1.695863 95	0.01 9207	0.11 8163	Dow n
PLCE1	464.65 50319	639.326596	289.9834678	0.4535 76419	- 1.140582 458	0.00 2066	0.02 288	Dow n
PLCG2	868.44 32023	481.6640703	1255.222334	2.6060 11974	1.381843 712	0.00 1482	0.01 7895	Up
PLCH1	72.034 24862	26.15882241	117.9096748	4.5074 53469	2.172312 599	6.13 E-05	0.00 14	Up
PLCH2	701.58 11019	234.3620694	1168.800134	4.9871 55718	2.318217 25	1.23 E-09	1.07 E-07	Up
PLCL1	239.26 01739	378.8317581	99.68858958	0.2631 47393	- 1.926056 992	2.94 E-05	0.00 075	Dow n
PLCXD1	113.61 07563	35.13946567	192.0820469	5.4662 76828	2.450558 524	6.81 E-07	2.85 E-05	Up
PLCXD3	9.0628 57483	16.80513227	1.320582696	0.0785 82107	- 3.669655 346	0.02 2241	0.13 1056	Dow n
PLD1	1356.2 86343	2105.58841	606.9842752	0.2882 72994	- 1.794492 406	0.02 3349	0.13 5667	Dow n
PLD4	469.75 3898	272.1105512	667.3972449	2.4526 69483	1.294352 832	0.00 0373	0.00 61	Up
PLEK2	123.42 52373	38.36697665	208.483498	5.4339 30849	2.441996 206	3.82 E-07	1.72 E-05	Up
PLEKHA3	537.15 74345	717.2002284	357.1146407	0.4979 28788	- 1.005988 666	0.01 0117	0.07 4426	Dow n
PLEKHA7	1053.5	623.1220356	1483.924433	2.3814	1.251830	0.00	0.00	Up

	23234			34693	985	0468	7354	
PLEKHG6	138.50 02753	42.91427921	234.0862715	5.4547 40842	2.447510 655	1.53 E-07	7.49 E-06	Up
PLEKHN1	249.54 04634	147.7009792	351.3799476	2.3789 95383	1.250352 472	0.00 5909	0.05 0418	Up
PLEKHS1	366.97 18585	97.49439437	636.4493226	6.5280 60682	2.706654 468	0.00 0331	0.00 5538	Up
PLIN1	841.98 03389	1591.005087	92.955591	0.0584 25703	- 4.097252 997	0.03 9288	0.19 3574	Down
PLIN4	2471.1 07301	4580.974874	361.2397287	0.0788 56518	- 3.664626 178	0.00 0397	0.00 6407	Down
PLK3	323.88 15495	452.0678261	195.6952729	0.4328 89185	- 1.207930 337	0.00 5191	0.04 575	Down
PLK5	133.36 49499	56.77721628	209.9526836	3.6978 33345	1.886680 207	4.76 E-05	0.00 112	Up
PLLP	357.87 63914	70.00124099	645.7515418	9.2248 58483	3.205526 779	1.00 E-14	2.16 E-12	Up
PLOD1	3914.7 01157	5744.040081	2085.362232	0.3630 47995	- 1.461767 811	0.00 0127	0.00 2498	Down
PLOD2	2773.6 24809	4810.67191	736.5777068	0.1531 1327	- 2.707328 772	3.87 E-05	0.00 0941	Down
PLOD3	2009.8 99038	2736.89906	1282.899016	0.4687 41809	- 1.093134 615	0.00 1607	0.01 895	Down
PLS1	14.912 43044	5.353721131	24.47113975	4.5708 65601	2.192467 399	0.02 595	0.14 5902	Up
PLSCR4	1529.2 49448	2638.20284	420.2960559	0.1593 11502	- 2.650077 668	0.01 8497	0.11 5239	Down
PLVAP	3157.0 83403	4707.14738	1607.019426	0.3413 99853	- 1.550465 656	0.01 438	0.09 6272	Down
PLXDC2	2526.7 62643	3780.571689	1272.953598	0.3367 09287	- 1.570424 581	0.00 0294	0.00 4996	Down
PLXNA4	783.56 99058	1355.046941	212.0928711	0.1565 20682	- 2.675574 795	0.01 0756	0.07 8014	Down
PLXNB1	2147.4	940.8966545	3353.976958	3.5646	1.833764	1.86	8.98	Up

	36806			60308	603	E-07	E-06	
PMEPA1	4130.3 02798	6148.075911	2112.529685	0.3436 08263	- 1.541163 364	0.00 4247	0.03 9276	Dow n
PML	1452.9 59669	957.9227498	1947.996588	2.0335 63341	1.024009 929	0.00 3181	0.03 1802	Up
PMP22	3328.8 72784	5626.896292	1030.849277	0.1832 00333	- 2.448505 966	0.00 0135	0.00 2643	Dow n
PNMT	192.39 80637	6.577052142	378.2190752	57.505 86539	5.845637 208	2.86 E-27	5.19 E-24	Up
PNP	5116.3 70643	6997.79365	3234.947635	0.4622 81084	- 1.113157 764	0.00 1146	0.01 4698	Dow n
POF1B	23.267 99669	2.438881899	44.09711148	18.080 87202	4.176392 354	9.95 E-05	0.00 2064	Up
POPDC2	27.266 36437	44.21331142	10.31941731	0.2334 00688	- 2.099119 28	0.00 7811	0.06 187	Dow n
POR	3717.9 67074	2469.759668	4966.17448	2.0107 92607	1.007764 29	0.00 3774	0.03 5911	Up
PORCN	1864.3 32285	495.4569623	3233.207607	6.5257 08292	2.706134 498	5.71 E-07	2.47 E-05	Up
POU2AF1	118.40 27581	69.89678729	166.9087289	2.3879 31339	1.255761 355	0.01 0419	0.07 621	Up
PPA1	1041.6 23957	1459.445325	623.8025878	0.4274 24431	- 1.226258 722	0.03 7506	0.18 7409	Dow n
PPAP2A	2251.6 17221	3388.634991	1114.599451	0.3289 22842	- 1.604178 896	0.00 1502	0.01 8079	Dow n
PPAP2C	1002.1 84669	659.9599032	1344.409434	2.0371 07751	1.026522 292	0.00 3598	0.03 4727	Up
PPAPDC1A	16.763 00608	4.623187608	28.90282454	6.2517 0921	2.644250 675	0.00 524	0.04 605	Up
PPARGC1A	83.206 13363	132.9859849	33.42628238	0.2513 51918	- 1.992219 397	0.00 0943	0.01 2658	Dow n
PPEF1	27.655 67472	44.0118155	11.29953394	0.2567 38646	- 1.961627 617	0.01 4264	0.09 5789	Dow n
PPFIA3	372.89 63212	222.9387426	522.8538999	2.3452 80564	1.229760 521	0.00 1423	0.01 7375	Up
PPIC	1867.7	2959.85961	775.7058728	0.2620	-	0.00	0.00	Dow

	82742			75225	1.931947 119	041	6576	n
PPIL6	40.354 83955	13.57762129	67.13205781	4.9443 1656	2.305771 115	0.00 0421	0.00 6697	Up
PPIP5K1	754.11 74762	389.4075948	1118.827358	2.8731 52379	1.522634 509	2.95 E-05	0.00 075	Up
PPM1H	194.01 56984	127.025195	261.0062018	2.0547 59308	1.038969 408	0.01 2546	0.08 6868	Up
PPM1J	73.325 47112	36.69018369	109.9607586	2.9970 07578	1.583522 732	0.00 283	0.02 913	Up
PPP1R12A	1487.4 75057	2382.99004	591.9600738	0.2484 10637	- 2.009201 144	0.01 9517	0.11 9343	Dow n
PPP1R14C	181.84 68073	86.03442965	277.659185	3.2273 0314	1.690329 096	0.00 0213	0.00 3895	Up
PPP1R14D	237.45 05543	76.85129877	398.0498099	5.1794 80584	2.372807 427	2.32 E-08	1.40 E-06	Up
PPP1R15A	1479.7 37829	2201.577199	757.8984597	0.3442 52502	- 1.538460 954	0.04 8181	0.22 3289	Dow n
PPP1R2	679.56 78245	1020.693894	338.4417554	0.3315 80073	- 1.592570 789	0.00 0609	0.00 8941	Dow n
PPP1R3C	1049.7 38524	1604.654941	494.8221071	0.3083 66674	- 1.697281 237	0.01 0875	0.07 8534	Dow n
PPP1R3G	120.80 04288	185.3657409	56.23511674	0.3033 73841	- 1.720831 404	0.00 015	0.00 2893	Dow n
PPP2R2C	455.87 96014	869.9880479	41.77115496	0.0480 13481	- 4.380416 642	0.00 4764	0.04 2913	Dow n
PPP4R4	71.897 39343	21.51587511	122.2789118	5.6831 94902	2.506702 193	3.72 E-06	0.00 0127	Up
PPTC7	123.12 19215	189.2801417	56.96370131	0.3009 49169	- 1.732408 263	0.03 0117	0.16 1767	Dow n
PQLC3	311.07 2347	427.7008917	194.4438023	0.4546 25665	- 1.137248 964	0.00 8701	0.06 6966	Dow n
PRADC1	342.07 16717	460.2063791	223.9369642	0.4866 01174	- 1.039188 295	0.00 591	0.05 0418	Dow n
PRAF2	1011.8	1402.53706	621.2423202	0.4429	-	0.00	0.02	Dow

	8969			41822	1.174810 875	2585	7175	n
PRAM1	57.344 7752	35.96238585	78.72716455	2.1891 52991	1.130372 782	0.03 6642	0.18 4991	Up
PRDM6	82.675 60713	134.4378833	30.913331	0.2299 45089	- 2.120638 71	0.02 6629	0.14 8343	Dow n
PRDM8	262.26 21927	441.8976826	82.62670283	0.1869 81526	- 2.419032 361	0.00 0751	0.01 0606	Dow n
PRELP	7570.4 14475	11383.50052	3757.328425	0.3300 67927	- 1.599165 136	0.01 8691	0.11 6032	Dow n
PREX2	324.53 87172	446.125524	202.9519103	0.4549 21091	- 1.136311 771	0.00 322	0.03 2084	Dow n
PRF1	199.24 08967	93.08523474	305.3965587	3.2808 27078	1.714059 556	3.30 E-05	0.00 0824	Up
PRG4	5854.9 70186	11525.54522	184.3951537	0.0159 98823	- 5.965890 45	9.90 E-08	5.06 E-06	Dow n
PRICKLE2	710.84 02368	1105.198801	316.481673	0.2863 57235	- 1.804112 039	0.00 9417	0.07 0907	Dow n
PRKAR2A	581.33 3157	820.6779743	341.9883397	0.4167 14412	- 1.262869 098	0.00 0543	0.00 8221	Dow n
PRKCDBP	4137.0 94873	6689.034688	1585.155058	0.2369 78149	- 2.077174 057	0.00 0118	0.00 236	Dow n
PRKCZ	647.91 08878	415.3173416	880.5044339	2.1200 76255	1.084116 156	0.00 3136	0.03 1538	Up
PRKRA	356.08 0336	519.800444	192.360228	0.3700 65532	- 1.434147 325	0.01 1974	0.08 4274	Dow n
PROC	24.749 79588	4.231380707	45.26821105	10.698 21276	3.419297 895	0.00 3891	0.03 6674	Up
PROCR	852.25 20782	1543.042464	161.4616925	0.1046 38528	- 3.256513 94	3.47 E-08	1.99 E-06	Dow n
PROKR1	63.092 02987	29.35137317	96.83268657	3.2990 85395	1.722066 122	0.00 1917	0.02 1594	Up
PROM2	737.81 0678	120.2060898	1355.415266	11.275 76205	3.495153 034	9.33 E-19	3.85 E-16	Up

PROS1	2991.3 70151	4923.327323	1059.412979	0.2151 82317	- 2.216368 57	0.00 1142	0.01 4679	Dow n
PROSER2	211.32 05129	135.0752646	287.5657612	2.1289 29837	1.090128 404	0.00 7593	0.06 0779	Up
PROX1	636.22 47225	1099.391231	173.058214	0.1574 12765	- 2.667375 553	5.39 E-11	5.79 E-09	Dow n
PRR15L	788.11 94686	138.8712362	1437.367701	10.350 36297	3.371609 456	6.35 E-18	2.18 E-15	Up
PRR16	195.99 22347	277.0094712	114.9749983	0.4150 58004	- 1.268615 128	0.03 2058	0.16 8945	Dow n
PRR36	297.99 32881	97.85138778	498.1351885	5.0907 31974	2.347873 11	6.27 E-09	4.50 E-07	Up
PRRC1	1750.7 60282	2446.357254	1055.163311	0.4313 20204	- 1.213168 797	0.00 0456	0.00 7181	Dow n
PRRG2	206.80 62781	115.4049978	298.2075585	2.5840 09049	1.369611 122	0.00 0996	0.01 3191	Up
PRRT4	59.921 29407	32.05890657	87.78368157	2.7381 99488	1.453227 556	0.00 8446	0.06 5559	Up
PRRX1	1056.2 76786	1820.288057	292.2655141	0.1605 60035	- 2.638815 259	0.00 1516	0.01 8144	Dow n
PRRX2	1287.8 56297	2045.346058	530.3665352	0.2593 04059	- 1.947283 305	0.00 0846	0.01 1625	Dow n
PRSS22	339.90 97234	15.08675334	664.7326934	44.060 68545	5.461420 034	2.61 E-30	6.78 E-27	Up
PRSS23	4558.1 72371	7323.438516	1792.906225	0.2448 17543	- 2.030221 152	0.00 8853	0.06 7902	Dow n
PRSS48	21.522 76563	42.76419478	0.28133648	0.0065 78786	- 7.247962 93	0.01 0098	0.07 437	Dow n
PRSS8	2392.0 9668	1159.800593	3624.392768	3.1250 13721	1.643862 524	0.00 1435	0.01 7488	Up
PRUNE2	4637.2 55601	8123.057577	1151.453625	0.1417 51257	- 2.818566 563	0.03 658	0.18 4834	Dow n
PRX	149.29 92819	77.42757758	221.1709861	2.8564 88515	1.514242 729	0.00 0632	0.00 9175	Up
PSD	160.87	60.5664455	261.1836183	4.3123	2.108473	1.83	6.89	Up

	50319			48465	762	E-06	E-05	
PSD3	1110.2 36448	1540.677975	679.7949213	0.4412 31024	- 1.180393 86	0.00 0892	0.01 207	Dow n
PSD4	759.08 78858	426.8323737	1091.343398	2.5568 43073	1.354363 617	0.00 0162	0.00 309	Up
PSRC1	235.85 02077	154.5858637	317.1145517	2.0513 81311	1.036595 685	0.01 1625	0.08 2228	Up
PTGDR	162.33 97324	238.3000829	86.3793819	0.3624 81544	- 1.464020 555	0.00 0544	0.00 8227	Dow n
PTGDS	7726.7 88163	4101.663657	11351.91267	2.7676 36164	1.468654 297	0.00 1418	0.01 7341	Up
PTGER2	27.228 98246	13.07123376	41.38673116	3.1662 45201	1.662772 985	0.02 4989	0.14 2215	Up
PTGER3	235.08 21739	425.6326421	44.53170565	0.1046 24743	- 3.256704 02	0.00 1093	0.01 4182	Dow n
PTGFRN	5701.4 49368	8983.53724	2419.361495	0.2693 10566	- 1.892657 264	0.03 9057	0.19 2738	Dow n
PTGIR	150.33 0273	242.5595099	58.10103604	0.2395 33119	- 2.061702 949	2.36 E-06	8.58 E-05	Dow n
PTGIS	2162.7 13888	3767.610851	557.8169253	0.1480 55876	- 2.755786 345	0.00 6874	0.05 6141	Dow n
PTGS2	442.22 30755	819.8928108	64.55334029	0.0787 33878	- 3.666871 656	0.02 7289	0.15 0862	Dow n
PTHLH	180.58 48994	316.1845573	44.98524154	0.1422 75265	- 2.813243 233	0.00 0178	0.00 336	Dow n
PTK7	1646.3 23214	836.5014467	2456.144981	2.9362 11277	1.553955 782	1.14 E-05	0.00 0333	Up
PTPDC1	162.90 85612	251.1320294	74.68509293	0.2973 93738	- 1.749553 825	0.01 5585	0.10 1558	Dow n
PTPLA	282.57 45577	430.5205884	134.6285269	0.3127 11007	- 1.677098 092	0.03 6022	0.18 2625	Dow n
PTPN11	1333.4 22709	1979.870706	686.9747117	0.3469 79583	- 1.527077 321	1.90 E-05	0.00 0514	Dow n

PTPN22	57.015 812	27.73170525	86.29991875	3.1119 58604	1.637822 869	0.00 3869	0.03 6527	Up
PTPN6	1038.0 77569	647.1775324	1428.977605	2.2080 14854	1.142749 877	0.00 1041	0.01 3685	Up
PTPN7	180.30 72373	87.40236143	273.2121132	3.1259 12261	1.644277 285	0.00 0103	0.00 2107	Up
PTPRB	1944.2 747	2715.714803	1172.834597	0.4318 69575	- 1.211332 412	0.00 0376	0.00 6154	Down
PTPRC	1803.3 28261	1200.67544	2405.981081	2.0038 5633	1.002779 076	0.02 4547	0.14 0432	Up
PTPRG	655.57 91641	912.3315593	398.8267689	0.4371 51126	- 1.193795 978	0.00 0868	0.01 1816	Down
PTPRK	1974.1 10308	1166.35207	2781.868547	2.3851 01908	1.254050 91	0.00 0404	0.00 6494	Up
PTPRM	1985.1 85222	2862.137122	1108.233322	0.3872 04831	- 1.368831 141	6.87 E-05	0.00 1534	Down
PTPRO	50.966 16945	25.03371714	76.89862177	3.0718 01975	1.619085 215	0.03 3548	0.17 4215	Up
PTPRQ	161.56 60567	318.4321746	4.699938734	0.0147 59623	- 6.082200 353	0.00 1836	0.02 0936	Down
PTPRR	32.773 70048	58.46398148	7.083419482	0.1211 58691	- 3.045030 195	0.02 0027	0.12 1481	Down
PTPRS	3069.1 57433	4529.024658	1609.290209	0.3553 28206	- 1.492775 878	0.00 0124	0.00 2459	Down
PTPRZ1	297.13 11925	96.41963369	497.8427512	5.1632 9229	2.368291 27	1.92 E-08	1.19 E-06	Up
PTRF	24340. 2311	33414.12439	15266.33782	0.4568 82773	- 1.130104 048	0.00 0832	0.01 1483	Down
PTX3	1367.2 83707	2619.169782	115.3976313	0.0440 58859	- 4.504424 066	0.02 5533	0.14 4298	Down
PVRIG	134.04 84325	68.45289894	199.6439661	2.9165 1587	1.544245 924	0.00 059	0.00 875	Up
PVRL1	333.64 76355	196.6411081	470.6541629	2.3934 67812	1.259102 404	0.00 1471	0.01 785	Up
PVRL3	185.55 9387	314.4971442	56.62162987	0.1800 38614	- 2.473621	0.00 0227	0.00 407	Down

					733			
PVRL4	946.38 75921	303.6072073	1589.167977	5.2342 89368	2.387993 683	1.81 E-10	1.83 E-08	Up
PXDN	5777.0 12748	8042.793838	3511.231658	0.4365 68651	- 1.195719 557	0.00 0369	0.00 6055	Down
PYCARD	213.02 14751	140.6644422	285.3785081	2.0287 89249	1.020619 006	0.01 1175	0.07 9908	Up
PYCR1	1536.6 91576	2538.558176	534.824975	0.2106 80606	- 2.246870 58	2.79 E-10	2.71 E-08	Down
PYGB	3104.7 59103	1895.454827	4314.063379	2.2760 04322	1.186503 297	0.00 0471	0.00 7386	Up
PYGL	8556.4 10907	5626.132885	11486.68893	2.0416 66836	1.029747 463	0.00 2342	0.02 5215	Up
PYROXD2	317.81 39568	132.3758711	503.2520425	3.8016 9013	1.926640 945	0.00 2524	0.02 6622	Up
QKI	631.86 9074	856.2957441	407.4424039	0.4758 19723	- 1.071513 021	0.00 3291	0.03 2576	Down
QPCT	732.77 7771	1354.426411	111.1291314	0.0820 48851	- 3.607373 051	0.03 3476	0.17 3994	Down
RAB11FIP4	115.04 17428	44.13436011	185.9491255	4.2132 50742	2.074933 777	1.34 E-05	0.00 038	Up
RAB15	1004.7 03606	336.0864019	1673.320811	4.9788 41158	2.315809 989	4.22 E-10	3.91 E-08	Up
RAB17	82.946 36302	25.34866847	140.5440576	5.5444 35508	2.471040 584	4.30 E-06	0.00 0145	Up
RAB19	71.220 57003	22.5236349	119.9175052	5.3240 74274	2.412530 698	9.44 E-06	0.00 0285	Up
RAB23	245.10 1335	386.4047955	103.7978745	0.2686 24706	- 1.896336 097	0.00 0388	0.00 6297	Down
RAB25	646.61 8543	230.0701589	1063.166927	4.6210 55301	2.208222 354	7.74 E-09	5.41 E-07	Up
RAB30	639.01 71425	1002.226914	275.8073715	0.2751 94537	- 1.861476 264	0.00 0354	0.00 5857	Down
RAB31	2324.3 49823	3638.431065	1010.268582	0.2776 65995	- 1.848577 589	0.04 1442	0.19 9942	Down
RAB36	106.82 02439	55.27775506	158.3627327	2.8648 54633	1.518461 936	0.00 1144	0.01 4692	Up

RAB37	153.29 59091	91.78668779	214.8051303	2.3402 64536	1.226671 617	0.00 4853	0.04 3551	Up
RAB3B	18.431 58866	32.42092322	4.442254091	0.1370 18124	- 2.867561 353	0.00 1172	0.01 4937	Down
RAB3C	145.68 31285	215.1596713	76.20658573	0.3541 86197	- 1.497420 105	0.00 0518	0.00 7931	Down
RAB3IL1	643.18 39432	923.5109362	362.8569502	0.3929 1029	- 1.347728 142	0.00 0204	0.00 3768	Down
RAB6B	35.125 29185	61.40912537	8.841458329	0.1439 76295	- 2.796096 8	0.00 0558	0.00 837	Down
RABAC1	3547.7 86812	5020.241029	2075.332594	0.4133 93019	- 1.274414 07	0.00 0226	0.00 4058	Down
RABGEF1	476.67 49292	646.1450152	307.2048431	0.4754 42565	- 1.072657 027	0.00 4324	0.03 983	Down
RAC2	715.11 40083	378.5792353	1051.648781	2.7778 82893	1.473985 781	3.74 E-05	0.00 0915	Up
RAET1G	12.142 66353	4.076669888	20.20865717	4.9571 48292	2.309510 417	0.03 5739	0.18 1902	Up
RAI14	1778.2 92488	2527.621138	1028.963838	0.4070 87843	- 1.296587 955	0.00 0172	0.00 3256	Down
RAI2	430.52 56853	617.1381442	243.9132264	0.3952 32783	- 1.339225 476	0.00 0296	0.00 5031	Down
RALGPS1	94.660 07839	59.98934288	129.3308139	2.1558 96492	1.108287 914	0.02 0471	0.12 3635	Up
RAMP1	320.17 11874	146.1265283	494.2158465	3.3821 09	1.757923 156	0.00 3021	0.03 0671	Up
RAMP2	2042.7 38145	2727.181391	1358.294899	0.4980 58143	- 1.005613 923	0.00 2983	0.03 0387	Down
RAMP3	101.15 02147	145.2210098	57.07941959	0.3930 52077	- 1.347207 62	0.03 011	0.16 1767	Down
RAP1GAP	405.19 59088	100.5326904	709.8591271	7.0609 78117	2.819868 046	1.42 E-12	2.04 E-10	Up
RAP1GAP2	314.64 37251	108.9656033	520.321847	4.7751 01788	2.255531 486	8.91 E-09	6.20 E-07	Up

RAPGEFL1	502.68 49917	254.8099563	750.560027	2.9455 67897	1.558545 808	4.27 E-05	0.00 1021	Up
RARRES1	10256. 47094	19710.39009	802.5517919	0.0407 17195	- 4.618218 021	0.02 6422	0.14 7734	Down
RASA4B	820.62 42504	1112.465369	528.7831322	0.4753 25477	- 1.073012 363	0.02 6401	0.14 7734	Down
RASAL3	191.33 66698	94.42041069	288.2529289	3.0528 66714	1.610164 604	0.00 0122	0.00 2436	Up
RASGEF1C	75.389 32053	10.56568154	140.2129595	13.270 60247	3.730161 964	0.00 0143	0.00 2772	Up
RASGRF2	485.35 69979	747.4957689	223.218227	0.2986 21392	- 1.743610 577	4.16 E-06	0.00 014	Down
RASGRP1	332.77 69099	178.270639	487.2831809	2.7333 89995	1.450691 315	0.00 0217	0.00 3938	Up
RASGRP2	367.74 17902	505.9556853	229.527895	0.4536 52171	- 1.140341 532	0.01 5006	0.09 9214	Down
RASL11B	354.43 29298	576.2390334	132.6268262	0.2301 59393	- 2.119294 773	0.00 0249	0.00 4373	Down
RASSF10	234.32 81664	86.76219832	381.8941345	4.4016 18929	2.138034 249	3.00 E-07	1.37 E-05	Up
RASSF3	664.90 09043	1013.548146	316.2536622	0.3120 26284	- 1.680260 531	0.00 7651	0.06 1113	Down
RASSF6	255.70 00817	61.0645968	450.3355667	7.3747 40689	2.882592 322	1.08 E-08	7.25 E-07	Up
RASSF7	229.77 29065	111.4571677	348.0886454	3.1230 70976	1.642965 357	8.01 E-05	0.00 1733	Up
RASSF9	398.19 14312	596.8457812	199.5370813	0.3343 19329	- 1.580701 325	0.01 0801	0.07 819	Down
RAVER2	186.91 4227	287.4022476	86.42620633	0.3007 15137	- 1.733530 603	0.03 9139	0.19 2986	Down
RBBP8NL	647.42 16671	180.7418037	1114.10153	6.1640 50085	2.623878 584	1.26 E-08	8.22 E-07	Up
RBMS3	810.99 22667	1154.698706	467.2858277	0.4046 8204	- 1.305139 272	0.00 0299	0.00 5072	Down
RBP4	1469.2	2365.407873	573.0226925	0.2422	-	5.60	4.07	Down

	15283			51114	2.045424 795	E-09	E-07	n
RBPMS	2236.5 77808	3352.935503	1120.220113	0.3341 01301	- 1.581642 496	0.01 1577	0.08 2067	Dow n
RCAN2	316.49 49598	463.1450148	169.8449048	0.3667 20788	- 1.447246 046	0.00 0199	0.00 3674	Dow n
RCN1	11054. 35334	18846.71095	3261.995735	0.1730 80372	- 2.530485 971	0.00 1924	0.02 165	Dow n
RCN3	3761.5 36661	6258.793694	1264.279627	0.2020 00527	- 2.307569 035	0.00 0327	0.00 5489	Dow n
RDX	3067.3 57928	4186.344624	1948.371231	0.4654 11094	- 1.103422 495	0.00 1221	0.01 5421	Dow n
RECK	1152.2 00547	1726.516616	577.884478	0.3347 11217	- 1.579011 194	1.33 E-05	0.00 0378	Dow n
RELB	950.93 49992	551.0100238	1350.859975	2.4516 06897	1.293727 669	0.00 0233	0.00 4145	Up
RELN	864.07 64956	1513.628368	214.5246234	0.1417 28728	- 2.818795 876	2.49 E-05	0.00 0651	Dow n
REPS2	157.77 03093	48.80269318	266.7379254	5.4656 39455	2.450390 295	4.40 E-08	2.42 E-06	Up
RET	282.08 24835	482.0365905	82.1283765	0.1703 77889	- 2.553189 978	6.29 E-05	0.00 1427	Dow n
REV3L	2454.7 04768	3640.245918	1269.163619	0.3486 47769	- 1.520157 844	0.03 4742	0.17 9111	Dow n
REXO2	1228.8 07798	1794.581728	663.0338688	0.3694 64293	- 1.436493 155	3.96 E-05	0.00 0962	Dow n
RFX3	250.86 8634	154.5412999	347.1959681	2.2466 22542	1.167757 756	0.00 2942	0.03 0036	Up
RGL1	1113.1 58206	1708.374354	517.9420578	0.3031 78315	- 1.721761 528	3.01 E-05	0.00 076	Dow n
RGS10	251.17 18361	114.6064848	387.7371873	3.3832 04605	1.758390 429	1.20 E-05	0.00 0348	Up
RGS11	114.27	70.19845796	158.3483935	2.2557	1.173590	0.01	0.07	Up

	34257			24671	986	0133	4478	
RGS20	46.228 89927	17.66447643	74.79332212	4.2341 09198	2.082058 477	0.00 0579	0.00 8639	Up
RGS6	87.683 50637	119.810636	55.55637676	0.4637 01543	- 1.108731 568	0.02 4813	0.14 1671	Down
RGS7	263.57 60911	374.6289381	152.5232441	0.4071 31507	- 1.296433 223	0.02 9108	0.15 8218	Down
RHBDD2	1183.3 0901	739.7266017	1626.891419	2.1993 14471	1.137053 904	0.00 124	0.01 5602	Up
RHBDL2	410.07 87523	229.6398323	590.5176724	2.5714 94965	1.362607 329	0.00 8994	0.06 8807	Up
RHBDL3	53.305 90356	24.14783285	82.46397427	3.4149 63769	1.771870 272	0.00 2412	0.02 5789	Up
RHBG	709.42 98984	354.660378	1064.199419	3.0006 15476	1.585258 452	0.00 9716	0.07 2439	Up
RHOB	6360.4 60792	8757.761001	3963.160583	0.4525 31256	- 1.143910 654	0.00 4031	0.03 7627	Down
RHOBTB3	2670.3 38217	4151.061186	1189.615249	0.2865 80996	- 1.802985 151	2.96 E-07	1.36 E-05	Down
RHOQ	684.73 29483	920.4709757	448.9949209	0.4877 88244	- 1.035673 106	0.00 4472	0.04 0857	Down
RHOV	725.54 74317	108.6142191	1342.480644	12.360 08191	3.627616 399	7.09 E-20	3.48 E-17	Up
RIC3	515.98 46119	147.7311292	884.2380946	5.9854 55465	2.581461 034	6.88 E-08	3.67 E-06	Up
RIIAD1	18.370 93136	7.418276237	29.32358648	3.9528 8414	1.982905 67	0.02 4501	0.14 0318	Up
RILP	147.25 66516	204.8052148	89.70808832	0.4380 16622	- 1.190942 477	0.00 5093	0.04 5237	Down
RIMKLA	17.084 70305	27.88237131	6.287034788	0.2254 84221	- 2.148901 612	0.01 8692	0.11 6032	Down
RIN2	2150.5 11539	1318.547575	2982.475504	2.2619 40002	1.177560 663	0.00 0653	0.00 943	Up
RINL	128.20 79907	78.56022879	177.8557526	2.2639 41377	1.178836 601	0.00 7381	0.05 9441	Up
RIPK4	1006.4 94305	233.8649178	1779.123692	7.6074 84305	2.927419 452	1.27 E-14	2.64 E-12	Up

RIPPLY3	91.772 67411	8.315985411	175.2293628	21.071 38892	4.397213 507	3.85 E-06	0.00 013	Up
RNF128	862.32 6854	362.8943511	1361.759357	3.7524 95328	1.907850 276	1.27 E-05	0.00 0364	Up
RNF149	1879.6 04539	1172.109501	2587.099577	2.2072 16625	1.142228 229	0.00 079	0.01 1031	Up
RNF150	1037.4 90492	1482.921719	592.0592655	0.3992 51867	- 1.324628 939	0.00 3727	0.03 5635	Down
RNF217	58.471 20864	82.47750315	34.46491412	0.4178 70483	- 1.258872 238	0.02 1568	0.12 8423	Down
RNF39	240.12 06164	101.869301	378.3719319	3.7142 88095	1.893085 721	5.49 E-06	0.00 018	Up
RNPEP	1709.4 83012	824.8776979	2594.088327	3.1448 1569	1.652975 467	3.39 E-06	0.00 0118	Up
ROBO3	91.749 34696	174.3046225	9.194071393	0.0527 47146	- 4.244763 151	1.74 E-14	3.39 E-12	Down
ROCK2	1779.1 1921	2648.858956	909.3794635	0.3433 09885	- 1.542416 697	0.00 2302	0.02 4862	Down
ROGDI	2817.4 58983	1745.05332	3889.864647	2.2290 80683	1.156448 837	0.00 1042	0.01 3692	Up
ROM1	696.56 87444	463.659742	929.4777468	2.0046 54842	1.003353 857	0.00 6066	0.05 1249	Up
ROR2	287.19 84517	402.2749788	172.1219246	0.4278 71316	- 1.224751 129	0.03 2009	0.16 8786	Down
RORA	138.33 7835	218.4757452	58.19992488	0.2663 90783	- 1.908383 927	0.00 7804	0.06 1868	Down
RORC	1015.1 945	123.5164713	1906.872528	15.438 20438	3.948433 057	1.82 E-23	1.65 E-20	Up
RPH3AL	504.45 01806	279.4364239	729.4639373	2.6104 82654	1.384316 572	0.00 0194	0.00 3603	Up
RPP40	299.28 48071	415.2965451	183.2730692	0.4413 06511	- 1.180147 063	0.00 2426	0.02 5884	Down
RPS6KA1	710.42 83247	370.9702715	1049.886378	2.8301 09199	1.500857 72	3.45 E-05	0.00 0859	Up
RPS6KA6	804.99 73453	480.1386337	1129.856057	2.3531 87137	1.234616 056	0.00 0581	0.00 8646	Up
RPS6KL1	308.88	464.6072946	153.1628622	0.3296	-	3.68	0.00	Down

	50784			60907	1.600945 279	E-05	0906	n
RRAS	1635.2 14144	2615.223358	655.2049293	0.2505 34979	- 1.996916 052	0.01 3936	0.09 4231	Dow n
RSG1	437.94 32713	198.7991751	677.0873675	3.4058 86202	1.768030 232	3.81 E-06	0.00 013	Up
RSPH3	214.59 93844	139.030904	290.1678648	2.0870 74574	1.061482 151	0.00 895	0.06 8592	Up
RSPO2	31.824 31946	59.7690578	3.879581131	0.0649 09525	- 3.945425 999	0.00 3751	0.03 5784	Dow n
RSPO3	182.88 70393	359.2296803	6.544398359	0.0182 17867	- 5.778502 175	0.01 3125	0.08 9851	Dow n
RSU1	2032.0 76721	2766.729954	1297.423489	0.4689 37522	- 1.092532 374	0.03 1516	0.16 6909	Dow n
RTKN	698.73 6785	304.0750088	1093.398561	3.5958 18563	1.846320 227	5.86 E-07	2.52 E-05	Up
RTP3	41.325 00672	5.137509957	77.51250348	15.087 56268	3.915287 859	7.31 E-08	3.86 E-06	Up
RUFY4	14.455 62775	3.667382879	25.24387261	6.8833 48001	2.783110 45	0.00 7655	0.06 1113	Up
RUNDC3B	132.16 10493	79.52496801	184.7971305	2.3237 624	1.216462 564	0.00 6483	0.05 3744	Up
RUNX1	1550.2 52653	990.7252788	2109.780026	2.1295 30831	1.090535 617	0.00 1506	0.01 8109	Up
RUNX1T1	48.241 09861	71.82590601	24.6562912	0.3432 78527	- 1.542548 48	0.00 815	0.06 3912	Dow n
RUNX3	80.431 01871	46.30860611	114.5534313	2.4736 96381	1.306668 436	0.00 9154	0.06 9418	Up
RUSC2	1795.5 39048	3068.375336	522.7027608	0.1703 51637	- 2.553412 286	9.93 E-05	0.00 2064	Dow n
RXFP2	9.9182 68208	19.56702585	0.269510562	0.0137 73711	- 6.181938 865	0.00 0313	0.00 528	Dow n
RXRG	23.024 25509	43.69625338	2.352256814	0.0538 32002	- 4.215392 101	2.83 E-06	0.00 01	Dow n
RYR3	1859.1 73584	928.2636573	2790.083511	3.0057 01547	1.587701 763	0.00 1508	0.01 8109	Up

S100A10	4530.2 69172	6300.713405	2759.824939	0.4380 1785	- 1.190938 431	0.00 0482	0.00 7527	Dow n
S100A2	1415.0 91304	335.0711554	2495.111452	7.4465 12216	2.896564 857	5.11 E-15	1.15 E-12	Up
S100A4	8763.9 25007	14240.75031	3287.099702	0.2308 23491	- 2.115138 04	0.00 3452	0.03 3731	Dow n
S100A6	150.99 02961	228.5995183	73.38107394	0.3210 0275	- 1.639342 44	0.00 2584	0.02 7175	Dow n
S100B	2664.8 74431	1776.290593	3553.45827	2.0004 93773	1.000356 138	0.00 4423	0.04 0496	Up
S100G	144.39 59608	287.9715639	0.820357604	0.0028 48745	- 8.455457 708	0.02 4892	0.14 1891	Dow n
S1PR1	1704.2 47296	2425.739681	982.7549101	0.4051 36181	- 1.303521 164	0.00 0144	0.00 2782	Dow n
S1PR3	269.50 58374	369.025664	169.9860108	0.4606 34659	- 1.118305 13	0.00 4429	0.04 0529	Dow n
S1PR5	180.46 00441	68.8601114	292.0599768	4.2413 52082	2.084524 249	1.20 E-06	4.72 E-05	Up
SAA3	7835.0 62635	695.5670749	14974.55819	21.528 56099	4.428179 985	2.60 E-07	1.22 E-05	Up
SACS	874.02 55646	1368.217611	379.8335177	0.2776 1192	- 1.848858 581	0.01 6366	0.10 5513	Dow n
SALL2	347.05 2302	180.623957	513.4806469	2.8428 15844	1.507320 645	8.94 E-05	0.00 1903	Up
SAMD10	120.59 17072	58.32112469	182.8622897	3.1354 38328	1.648667 143	0.00 0344	0.00 5729	Up
SAMD14	215.82 57103	330.0620761	101.5893445	0.3077 886	- 1.699988 295	0.02 6522	0.14 7928	Dow n
SAMD4A	1947.4 56381	3296.212271	598.700491	0.1816 32869	- 2.460902 794	0.00 3674	0.03 5257	Dow n
SAMHD1	431.47 84715	280.2725452	582.6843977	2.0789 92066	1.055884 252	0.00 3768	0.03 5882	Up
SAMSN1	199.13 2203	118.1019279	280.162478	2.3722 09185	1.246231 234	0.01 7063	0.10 8541	Up
SAP25	267.94	170.1079006	365.7791341	2.1502	1.104522	0.00	0.04	Up

	35174			77164	631	5029	4798	
SAPCD2	723.08 13567	249.9544077	1196.208306	4.7857 05989	2.258731 767	2.01 E-09	1.64 E-07	Up
SAR1A	4308.0 27555	5824.640446	2791.414663	0.4792 42399	- 1.061172 543	0.00 1913	0.02 1594	Down
SAR1B	317.20 10332	467.7360362	166.6660302	0.3563 24972	- 1.488734 499	0.00 0138	0.00 2702	Down
SASH3	372.95 41618	231.7037272	514.2045965	2.2192 33168	1.150061 255	0.00 2014	0.02 239	Up
SATB1	1275.1 75994	677.435436	1872.916553	2.7647 15946	1.467131 262	3.52 E-05	0.00 0874	Up
SBK1	37.624 88741	17.00225286	58.24752196	3.4258 70821	1.776470 753	0.00 7787	0.06 1814	Up
SBK2	32.927 62449	4.76771318	61.0875358	12.812 75393	3.679508 692	2.64 E-06	9.50 E-05	Up
SCARA3	2742.8 77453	1562.556313	3923.198594	2.5107 56612	1.328122 183	0.00 0147	0.00 2841	Up
SCARA5	5331.0 09999	9053.038524	1608.981475	0.1777 28336	- 2.492254 378	0.03 0577	0.16 3371	Down
SCARF2	1202.4 12445	1751.108454	653.716436	0.3733 1579	- 1.421531 563	4.47 E-05	0.00 1058	Down
SCEL	11.626 1441	1.197430826	22.05485738	18.418 48139	4.203082 21	0.00 1329	0.01 6501	Up
SCG3	51.585 28071	85.89780974	17.27275169	0.2010 84891	- 2.314123 411	0.03 1508	0.16 6909	Down
SCGB1D	1047.7 27534	176.4453632	1919.009706	10.875 94296	3.443068 585	6.02 E-19	2.54 E-16	Up
SCGB2A2	338.88 90902	34.3296423	643.448538	18.743 23456	4.228298 039	2.24 E-21	1.43 E-18	Up
SCHIP1	492.14 13819	819.0223729	165.2603909	0.2017 77627	- 2.309161 876	0.00 6062	0.05 1236	Down
SCML1	152.88 4732	227.5853086	78.18415533	0.3435 37796	- 1.541459 262	0.00 311	0.03 1347	Down
SCML4	87.621 51145	53.04814919	122.1948737	2.3034 71008	1.203809 44	0.01 309	0.08 9746	Up
SCN10A	11.414 54222	0.854174188	21.97491026	25.726 49768	4.685183 162	0.00 5328	0.04 6688	Up

SCN3A	432.16 06107	770.8087612	93.51246012	0.1213 17329	- 3.043142 454	1.39 E-05	0.00 039	Dow n
SCN5A	19.424 11951	3.592292478	35.25594655	9.8143 30756	3.294889 893	0.00 0567	0.00 8484	Up
SCN7A	37.461 61019	74.09103685	0.832183522	0.0112 31905	- 6.476253 491	0.02 7807	0.15 3117	Dow n
SCNN1D	161.11 59395	64.99026208	257.241617	3.9581 56325	1.984828 592	6.28 E-06	0.00 0201	Up
SCNN1G	41.751 68265	11.82023739	71.6831279	6.0644 40629	2.600374 58	0.00 0107	0.00 2179	Up
SCRG1	36.329 05145	18.35779931	54.30030359	2.9578 87418	1.564567 142	0.02 1733	0.12 9068	Up
SCRN1	435.52 76983	757.2647662	113.7906303	0.1502 65317	- 2.734416 036	9.96 E-05	0.00 2065	Dow n
SCUBE2	1352.4 8277	2166.275775	538.6897654	0.2486 70909	- 2.007690 354	1.42 E-05	0.00 0398	Dow n
SCX	20.735 14953	37.40305325	4.067245808	0.1087 41011	- 3.201031 954	0.00 8957	0.06 8617	Dow n
SDC1	2033.4 18776	1311.149183	2755.68837	2.1017 35184	1.071580 903	0.00 2466	0.02 6152	Up
SDC2	3837.7 61709	6129.778331	1545.745088	0.2521 69818	- 1.987532 483	4.64 E-05	0.00 1096	Dow n
SDCBP2	27.416 62688	12.91716289	41.91609086	3.2449 92047	1.698214 942	0.02 4331	0.13 9734	Up
SDK1	826.10 6544	1314.129	338.0840882	0.2572 6857	- 1.958652 88	0.00 0666	0.00 9591	Dow n
SDPR	1319.0 41346	1782.5298	855.552891	0.4799 65547	- 1.058997 245	0.01 2313	0.08 5551	Dow n
SDR42E1	142.30 51721	78.15923632	206.451108	2.6414 16647	1.401311 885	0.00 1616	0.01 8989	Up
SDR9C7	373.57 11737	24.91284132	722.2295061	28.990 25032	4.857495 885	6.80 E-27	9.50 E-24	Up
SEC14L2	44.758 55711	13.06670374	76.45041047	5.8507 80117	2.548629	6.87 E-05	0.00 1534	Up
SEC14L4	39.330 07456	6.929368812	71.73078032	10.351 70479	3.371796 475	1.73 E-06	6.60 E-05	Up

SEC22B	2443.1 47628	3343.509322	1542.785934	0.4614 27137	- 1.115825 242	0.00 1191	0.01 5108	Dow n
SEC23A	2080.4 84939	3330.037495	830.9323836	0.2495 26435	- 2.002735 433	0.00 2628	0.02 7487	Dow n
SEC24A	1303.8 67395	1767.800305	839.9344842	0.4751 29732	- 1.073606 608	0.00 2215	0.02 4155	Dow n
SEC24D	3410.8 65165	5237.926468	1583.803862	0.3023 72298	- 1.725602 123	6.80 E-07	2.85 E-05	Dow n
SEC61A1	4323.9 32383	5798.912227	2848.952539	0.4912 90854	- 1.025350 714	0.00 6786	0.05 5599	Dow n
SEC61G	1391.7 14327	1893.952336	889.4763183	0.4696 40287	- 1.090371 923	0.00 1648	0.01 9249	Dow n
SECTM1A	4.5605 94767	8.839853053	0.28133648	0.0318 25923	- 4.973653 847	0.02 1073	0.12 6391	Dow n
SELM	962.83 41126	1493.716042	431.9521831	0.2891 79584	- 1.789962 395	4.92 E-07	2.17 E-05	Dow n
SEMA3A	281.80 03022	481.1809366	82.4196678	0.1712 86228	- 2.545518 933	0.00 8092	0.06 3599	Dow n
SEMA3B	1832.6 75232	2641.549156	1023.801307	0.3875 76095	- 1.367448 504	0.00 4396	0.04 0285	Dow n
SEMA3C	1475.5 80949	2829.238809	121.923088	0.0430 93954	- 4.536370 703	3.22 E-09	2.46 E-07	Dow n
SEMA3D	99.567 52846	193.9306393	5.204417648	0.0268 3649	- 5.219660 203	0.00 0862	0.01 177	Dow n
SEMA3E	121.47 26631	63.15855327	179.7867729	2.8465 94224	1.509236 854	0.00 3428	0.03 3527	Up
SEMA3G	2287.6 82715	1436.12778	3139.237651	2.1859 04134	1.128230 131	0.00 1115	0.01 4404	Up
SEMA4A	1381.7 23636	776.6334898	1986.813782	2.5582 38614	1.355150 835	0.00 0121	0.00 241	Up
SEMA4B	913.88 9231	363.1672692	1464.611193	4.0328 83238	2.011811 637	4.72 E-08	2.58 E-06	Up

SEMA4D	1457.1 17075	784.3205182	2129.913632	2.7156 16362	1.441279 683	4.40 E-05	0.00 1046	Up
SEMA4F	978.38 37444	640.2511166	1316.516372	2.0562 50021	1.040015 694	0.00 3289	0.03 2576	Up
SEMA4G	397.44 93338	261.8981691	533.0004986	2.0351 44042	1.025130 909	0.00 6311	0.05 2803	Up
SEMA5A	2652.7 53266	3825.955712	1479.55082	0.3867 14048	- 1.370660 922	0.02 5827	0.14 5391	Down
SEMA5B	183.32 80878	283.9689237	82.68725193	0.2911 84158	- 1.779996 228	2.55 E-05	0.00 0663	Down
SEMA6B	318.61 48609	490.412219	146.8175029	0.2993 75703	- 1.739970 956	6.06 E-06	0.00 0195	Down
1-Sep	223.56 83259	107.9324869	339.2041649	3.1427 43901	1.652024 713	5.25 E-05	0.00 1217	Up
3-Sep	38.155 15371	21.24658366	55.06372377	2.5916 50717	1.373871 296	0.03 4303	0.17 7341	Up
SERF1A	117.24 11661	177.0036103	57.47872185	0.3247 31918	- 1.622678 901	0.00 0381	0.00 6205	Down
SERP1	1002.5 52328	1401.107207	603.9974496	0.4310 8582	- 1.213952 986	0.00 1208	0.01 53	Down
SERPINA1	2265.6 51951	152.0473294	4379.256573	28.801 93022	4.848093 595	1.55 E-33	7.04 E-30	Up
SERPINA11	714.79 00925	94.17870939	1335.401476	14.179 44124	3.825728 777	1.36 E-17	4.32 E-15	Up
SERPINA3-1	653.87 40186	11.40642037	1296.341617	113.65 01702	6.828456 035	3.90 E-08	2.18 E-06	Up
SERPINA5	1624.2 63628	248.2870053	3000.24025	12.083 75866	3.594997 37	3.64 E-21	2.20 E-18	Up
SERPINB5	463.06 97409	183.6826978	742.4567839	4.0420 61624	2.015091 317	3.54 E-05	0.00 0876	Up
SERPIND1	12.893 1279	3.715933142	22.07032265	5.9393 75604	2.570311 271	0.01 7559	0.11 0997	Up
SERPINF1	6133.3 00157	10459.42873	1807.171586	0.1727 79186	- 2.532998 659	0.00 1747	0.02 0169	Down
SERPINF2	23.238 52509	5.833568526	40.64348165	6.9671 7309	2.800573 405	0.02 3464	0.13 621	Up
SERPINH1	16022. 0249	25430.57174	6613.478057	0.2600 6014	- 1.943082	1.84 E-06	6.90 E-05	Down

					801			
SERTAD4	3259.9 7991	2136.096107	4383.863713	2.0522 78312	1.037226 39	0.00 7773	0.06 1733	Up
SERTM1	594.23 61512	1075.760893	112.7114098	0.1047 73663	- 3.254651 977	0.00 5214	0.04 5884	Down
SETD7	4636.3 71177	6841.165425	2431.576928	0.3554 33143	- 1.492349 881	1.64 E-05	0.00 0451	Down
SEZ6L	264.96 93346	525.6137388	4.324930451	0.0082 28344	- 6.925182 243	0.04 6123	0.21 5981	Down
SFI1	675.54 20313	407.3462613	943.7378013	2.3167 95048	1.212130 424	0.00 0688	0.00 9856	Up
SFN	231.07 8082	129.57854	332.5776241	2.5666 10367	1.359864 299	0.03 9532	0.19 4193	Up
SFRP2	13148. 1287	23358.83813	2937.419278	0.1257 51943	- 2.991347 405	0.00 8666	0.06 677	Down
SFRP4	5710.5 61865	10004.14844	1416.975294	0.1416 38771	- 2.819711 86	0.00 0671	0.00 9645	Down
SFXN3	1801.7 29393	2658.767704	944.6910815	0.3553 11628	- 1.492843 191	8.18 E-05	0.00 1763	Down
SFXN5	520.46 42625	292.8714898	748.0570352	2.5542 15966	1.352880 514	0.00 0279	0.00 4802	Up
SGCE	706.98 93899	1012.973875	401.0049046	0.3958 6895	- 1.336905 18	0.00 1586	0.01 8771	Down
SGIP1	149.82 57657	244.1840887	55.46744275	0.2271 54206	- 2.138256 077	0.04 5857	0.21 5125	Down
SGPP2	253.09 33588	75.6849381	430.5017795	5.6880 77314	2.507941 075	3.03 E-09	2.34 E-07	Up
SGTB	114.01 53501	180.985401	47.04529917	0.2599 39746	- 1.943750 849	0.00 4751	0.04 2847	Down
SH2D2A	54.569 99658	30.66013452	78.47985864	2.5596 71047	1.355958 416	0.01 7197	0.10 9206	Up
SH2D3A	109.82 99589	54.39463561	165.2652822	3.0382 6435	1.603247 4	0.00 0597	0.00 8827	Up
SH2D4A	264.04 3813	62.93607607	465.15155	7.3908 57185	2.885741 697	0.00 025	0.00 4385	Up

SH3BGR	1163.7 8439	1909.769816	417.7989629	0.2187 69277	- 2.192517 945	0.04 219	0.20 2634	Down
SH3BP1	754.20 52095	389.7090233	1118.701396	2.8706 0686	1.521355 762	2.48 E-05	0.00 065	Up
SH3BP5	1907.7 49406	2623.322506	1192.176306	0.4544 52818	- 1.137797 575	0.00 0852	0.01 168	Down
SH3D21	544.90 03257	347.9245712	741.8760802	2.1322 89989	1.092403 656	0.00 351	0.03 4165	Up
SH3GL2	56.341 78852	97.39800103	15.285576	0.1569 3932	- 2.671721 245	0.00 9455	0.07 1019	Down
SH3PXD2B	3324.2 05392	4695.254689	1953.156096	0.4159 85122	- 1.265396 164	0.00 9444	0.07 0969	Down
SH3RF2	155.15 39757	48.5664209	261.7415305	5.3893 51854	2.430111 779	2.65 E-06	9.50 E-05	Up
SH3TC2	516.83 86627	324.1963113	709.4810141	2.1884 30248	1.129896 402	0.01 4738	0.09 8048	Up
SHANK1	61.511 36096	98.58770207	24.43501986	0.2478 50587	- 2.012457 418	0.00 0256	0.00 447	Down
SHANK2	3338.2 13602	672.4861526	6003.941052	8.9279 7722	3.158333 346	7.18 E-16	1.92 E-13	Up
SHANK3	1443.1 29492	1967.676775	918.5822096	0.4668 35926	- 1.099012 504	0.00 1269	0.01 5914	Down
SHE	186.44 40757	291.9412255	80.94692586	0.2772 71309	- 1.850629 754	9.90 E-06	0.00 0295	Down
SHISA2	369.95 1393	172.2193372	567.6834488	3.2962 81695	1.720839 538	5.50 E-06	0.00 018	Up
SHISA3	14.423 83648	24.24897812	4.598694834	0.1896 44892	- 2.398627 582	0.02 2009	0.13 0195	Down
SHISA6	64.376 96497	121.2133352	7.540594722	0.0622 09283	- 4.006726 302	0.00 5844	0.04 9979	Down
SHOX2	320.90 71507	538.26202	103.5522815	0.1923 82664	- 2.377949 291	0.00 2675	0.02 7833	Down
SHROOM1	451.82 02845	274.3113787	629.3291902	2.2942 14673	1.198000 393	0.00 1441	0.01 7529	Up

SHROOM2	128.92 97715	81.9248741	175.9346688	2.1475 12227	1.102666 346	0.01 6849	0.10 7564	Up
SHROOM3	2483.3 24739	1030.506706	3936.142773	3.8196 18785	1.933428 658	5.69 E-08	3.06 E-06	Up
SIDT1	122.02 91283	44.65835329	199.3999033	4.4650 07969	2.158662 75	2.91 E-06	0.00 0102	Up
SIGLEC15	56.439 07426	17.31215976	95.56598875	5.5201 656	2.464711 547	0.01 3233	0.09 0388	Up
SIK1	480.70 06906	694.0185684	267.3828128	0.3852 6752	- 1.376067 53	0.00 0191	0.00 3563	Down
SIM1	19.755 07183	39.51014367	0	0	#NAME?	0.00 3042	0.03 0804	Down
SIT1	107.18 8956	58.06667404	156.311238	2.6919 26834	1.428639 198	0.00 1799	0.02 0603	Up
SIX1	50.268 75723	91.57841143	8.959103041	0.0978 29859	- 3.353581 333	0.00 0223	0.00 4025	Down
SIX2	13.814 4258	23.83111635	3.797735246	0.1593 60359	- 2.649635 296	0.00 8378	0.06 5219	Down
SIX4	272.44 2558	174.8869826	369.9981335	2.1156 41359	1.081095 084	0.03 5545	0.18 1378	Up
SKIL	1407.8 55697	1885.938714	929.7726806	0.4930 02595	- 1.020332 854	0.04 2941	0.20 5321	Down
SLA	280.89 16804	169.9607357	391.8226251	2.3053 71434	1.204999 212	0.01 7743	0.11 1886	Up
SLAIN1	106.53 68352	29.59299927	183.4806712	6.2001 37724	2.632300 263	1.14 E-07	5.76 E-06	Up
SLAIN2	437.51 10847	618.938537	256.0836323	0.4137 46466	- 1.273181 106	0.00 4072	0.03 7871	Down
SLAMF1	30.670 24615	12.71502703	48.62546527	3.8242 51821	1.935177 526	0.00 6469	0.05 3693	Up
SLAMF7	198.12 65411	115.44279	280.8102922	2.4324 62799	1.282417 741	0.00 1375	0.01 6911	Up
SLAMF8	84.702 25012	48.5458374	120.8586628	2.4895 7829	1.315901 384	0.00 6472	0.05 3693	Up
SLAMF9	50.822 10463	97.36990075	4.274308501	0.0438 97636	- 4.509712 927	2.39 E-11	2.82 E-09	Down
SLC12A3	22.564 89783	5.27863073	39.85116493	7.5495 26946	2.916386 248	0.00 0754	0.01 0621	Up

SLC12A4	2718.3 17112	4174.570903	1262.063321	0.3023 21688	- 1.725843 617	1.21 E-05	0.00 0349	Dow n
SLC13A2	470.62 43772	83.11570035	858.1330541	10.324 56023	3.368008 427	8.22 E-17	2.41 E-14	Up
SLC15A2	196.37 43706	47.05275883	345.6959824	7.3469 86468	2.877152 617	1.03 E-10	1.08 E-08	Up
SLC16A11	726.12 96313	341.3988474	1110.860415	3.2538 49343	1.702147 454	2.83 E-06	0.00 01	Up
SLC16A2	306.59 19582	414.2901527	198.8937637	0.4800 83252	- 1.058643 488	0.00 5082	0.04 5161	Dow n
SLC16A3	344.56 8567	535.2253212	153.9118128	0.2875 6452	- 1.798042 408	3.39 E-06	0.00 0118	Dow n
SLC16A5	326.75 2307	437.2308928	216.2737213	0.4946 44191	- 1.015536 96	0.00 8493	0.06 5785	Dow n
SLC17A1	10.332 54587	3.222495701	17.44259604	5.4127 60067	2.436364 439	0.04 3178	0.20 6182	Up
SLC17A7	100.92 44206	21.21955826	180.629283	8.5123 96006	3.089565 268	2.26 E-09	1.81 E-07	Up
SLC17A9	510.96 06193	754.6816212	267.2396175	0.3541 09084	- 1.497734 242	4.92 E-05	0.00 1153	Dow n
SLC19A3	23.836 96494	12.01945372	35.65447616	2.9663 97391	1.568711 88	0.04 3332	0.20 6588	Up
SLC1A1	691.99 69635	174.7735855	1209.220342	6.9187 82024	2.790518 09	2.93 E-11	3.41 E-09	Up
SLC1A4	563.13 18219	933.2385633	193.0250804	0.2068 33588	- 2.273457 609	1.21 E-09	1.07 E-07	Dow n
SLC1A5	1642.7 75257	2544.97773	740.5727832	0.2909 93817	- 1.780939 597	2.59 E-06	9.35 E-05	Dow n
SLC22A3	432.27 91281	253.991521	610.5667351	2.4038 8629	1.265368 654	0.04 8853	0.22 5223	Up
SLC22A31	107.95 46132	23.218083	192.6911434	8.2991 8402	3.052969 497	1.88 E-09	1.56 E-07	Up
SLC23A1	34.682 28527	13.20733926	56.15723128	4.2519 71589	2.088131 957	0.00 2693	0.02 7999	Up
SLC24A3	769.84 7263	264.3999691	1275.294557	4.8233 53654	2.270036 594	1.26 E-09	1.09 E-07	Up
SLC25A10	1389.5	482.7636642	2296.300114	4.7565	2.249922	5.65	5.15	Up

	31889			71971	208	E-10	E-08	
SLC25A13	207.24 37603	136.6201515	277.867369	2.0338 68107	1.024226 126	0.01 2821	0.08 8338	Up
SLC25A15	182.96 90803	258.5687182	107.3694425	0.4152 4529	- 1.267964 289	0.00 21	0.02 3201	Down
SLC25A21	44.969 97001	66.05608827	23.88385174	0.3615 69272	- 1.467656 02	0.01 4392	0.09 6273	Down
SLC25A27	420.45 198	276.5700305	564.3339295	2.0404 73903	1.028904 259	0.00 601	0.05 0889	Up
SLC25A29	4083.3 20622	2698.059712	5468.581531	2.0268 57117	1.019244 39	0.02 7991	0.15 3621	Up
SLC25A4	1316.7 69052	1893.016775	740.5213286	0.3911 85825	- 1.354074 002	0.01 7957	0.11 2847	Down
SLC25A48	101.94 39336	2.02959489	201.8582723	99.457 42044	6.636007 108	1.74 E-22	1.31 E-19	Up
SLC26A10	208.90 63929	311.6453734	106.1674124	0.3406 67378	- 1.553564 29	0.00 1266	0.01 59	Down
SLC26A2	1448.9 12104	731.955177	2165.869032	2.9590 18667	1.565118 798	7.29 E-06	0.00 0228	Up
SLC26A6	1604.7 92803	794.4980398	2415.087566	3.0397 65293	1.603959 934	6.24 E-06	0.00 02	Up
SLC26A9	6.6894 66213	0.880714327	12.4982181	14.191 00124	3.826904 476	0.02 1843	0.12 9595	Up
SLC27A1	2529.1 43212	1550.750939	3507.535485	2.2618 30314	1.177490 7	0.00 0598	0.00 8838	Up
SLC27A5	240.39 76828	130.3726325	350.4227331	2.6878 55008	1.426455 316	0.00 0341	0.00 569	Up
SLC28A3	6791.2 31982	3885.395626	9697.068337	2.4957 73731	1.319487 144	0.02 7622	0.15 2409	Up
SLC2A10	225.41 70231	324.7008382	126.133208	0.3884 59755	- 1.364162 954	0.00 259	0.02 7215	Down
SLC2A11	32.797 65316	12.62586132	52.969445	4.1953 13385	2.068778 582	0.00 4221	0.03 9075	Up
SLC2A13	57.611 65763	89.34974693	25.87356833	0.2895 76291	- 1.787984 607	0.00 1511	0.01 8119	Down
SLC2A3	2518.0 11464	4315.888553	720.1343748	0.1668 56573	- 2.583319 572	7.07 E-13	1.08 E-10	Down

SLC2A5	312.30 33018	89.5216656	535.0849379	5.9771 55746	2.579459 135	3.46 E-10	3.27 E-08	Up
SLC2A9	69.774 43717	101.5790663	37.96980804	0.3737 956	- 1.419678 508	0.01 6475	0.10 5912	Down
SLC30A4	982.72 47816	1337.367882	628.0816816	0.4696 40172	- 1.090372 277	0.04 0624	0.19 7729	Down
SLC34A3	64.849 06019	27.82944573	101.8686747	3.6604 63656	1.872026 401	0.00 0642	0.00 9303	Up
SLC35D1	87.570 99762	128.4974178	46.64457739	0.3630 00115	- 1.461958 091	0.00 2862	0.02 9374	Down
SLC35E4	109.40 52767	155.6502262	63.16032723	0.4057 83716	- 1.301217 122	0.00 53	0.04 6487	Down
SLC35F1	240.36 24806	158.0247756	322.7001856	2.0420 86023	1.030043 641	0.01 51	0.09 9614	Up
SLC35G2	26.367 83708	48.12183513	4.613839029	0.0958 78285	- 3.382652 085	2.11 E-05	0.00 0564	Down
SLC37A1	1631.9 98859	969.0995828	2294.898135	2.3680 72566	1.243713 291	0.04 5131	0.21 2818	Up
SLC37A2	402.11 49878	170.9785261	633.2514495	3.7036 89954	1.888963 332	6.92 E-07	2.88 E-05	Up
SLC38A2	7998.4 57494	11361.67995	4635.235038	0.4079 70921	- 1.293461 769	0.02 2531	0.13 2463	Down
SLC38A5	140.69 33099	266.7968267	14.58979307	0.0546 85032	- 4.192710 181	0.00 0613	0.00 8971	Down
SLC38A7	824.07 11064	548.6538568	1099.488356	2.0039 74532	1.002864 174	0.00 5284	0.04 6369	Up
SLC39A11	1496.2 56639	803.3312379	2189.182041	2.7251 29981	1.446325 044	4.70 E-05	0.00 1108	Up
SLC39A12	62.972 32995	124.8623638	1.082296068	0.0086 67913	- 6.850099 663	7.92 E-05	0.00 1717	Down
SLC39A13	1429.1 15403	1921.698654	936.5321512	0.4873 46	- 1.036981 693	0.00 3137	0.03 1538	Down
SLC39A2	14.758 82315	5.785018264	23.73262804	4.1024 29233	2.036478 447	0.03 7816	0.18 8197	Up
SLC39A5	35.667	17.28060434	54.05508701	3.1280	1.645276	0.01	0.09	Up

	84568			78506	721	3212	0312	
SLC3A2	3018.1 55283	1812.452191	4223.858375	2.3304 66092	1.220618 522	0.00 04	0.00 644	Up
SLC41A2	681.64 08446	1127.633496	235.6481933	0.2089 75872	- 2.258591 713	0.00 5664	0.04 8736	Down
SLC44A1	2220.3 08143	1459.619682	2980.996605	2.0423 10502	1.030202 223	0.00 2659	0.02 7715	Up
SLC44A3	221.94 90397	63.77650552	380.1215738	5.9602 13259	2.575363 952	2.07 E-09	1.68 E-07	Up
SLC44A4	136.18 40843	11.76311236	260.6050561	22.154 43057	4.469523 341	1.58 E-17	4.88 E-15	Up
SLC46A1	178.48 06721	78.72888938	278.2324549	3.5340 57918	1.821325 684	2.10 E-05	0.00 0562	Up
SLC46A2	149.99 23091	80.71671445	219.2679038	2.7165 11757	1.441755 291	0.00 0782	0.01 0942	Up
SLC4A11	870.53 15007	1405.354661	335.7083408	0.2388 78022	- 2.065653 973	0.00 3759	0.03 5821	Down
SLC4A4	735.55 34424	1287.671059	183.4358254	0.1424 55501	- 2.811416 766	0.00 8668	0.06 677	Down
SLC4A5	49.511 64292	23.16548798	75.85779786	3.2746 03925	1.711320 418	0.00 5157	0.04 5561	Up
SLC5A1	862.30 95295	385.1373841	1339.481675	3.4779 3211	1.798229 771	8.51 E-06	0.00 026	Up
SLC6A12	17.700 72195	3.421226766	31.98021714	9.3475 87671	3.224594 097	0.00 6094	0.05 1408	Up
SLC6A14	475.93 93341	281.606328	670.2723403	2.3801 74995	1.251067 647	0.00 2387	0.02 5601	Up
SLC6A15	15.754 19503	6.917543934	24.59084612	3.5548 52179	1.829789 57	0.04 4735	0.21 1389	Up
SLC6A17	594.67 74815	1105.430552	83.92441106	0.0759 20112	- 3.719374 074	0.04 323	0.20 6323	Down
SLC6A2	258.36 71978	468.9091402	47.82525538	0.1019 92585	- 3.293463 823	6.08 E-05	0.00 1393	Down
SLC6A4	89.774 29248	162.5710573	16.97752764	0.1044 31428	- 3.259372 15	0.00 0808	0.01 1243	Down
SLC6A9	329.17 89216	463.1312781	195.2265651	0.4215 36127	- 1.246271 816	0.00 1152	0.01 4733	Down

SLC7A10	49.911 75247	81.81555981	18.00794514	0.2201 04161	- 2.183741 677	0.01 4002	0.09 4498	Dow n
SLC7A2	1456.8 40469	2267.293034	646.3879033	0.2850 92352	- 1.810498 758	0.03 8063	0.18 9095	Dow n
SLC7A8	416.39 27777	199.6688964	633.116659	3.1708 32666	1.664861 744	0.00 1523	0.01 819	Up
SLC8A2	46.610 71066	83.37587346	9.845547861	0.1180 86293	- 3.082086 577	0.04 0852	0.19 82	Dow n
SLC9A4	3.3640 65144	0	6.728130287	Inf	Inf	0.04 9447	0.22 6508	Up
SLC9A7	423.07 09803	221.2029799	624.9389807	2.8251 83372	1.498344 51	6.71 E-05	0.00 1506	Up
SLC9C2	10.355 36548	2.879239062	17.8314919	6.1931 26558	2.630667 928	0.03 0417	0.16 2752	Up
SLCO1A2	152.40 64706	74.40673249	230.4062086	3.0965 77432	1.630674 522	0.00 0261	0.00 4546	Up
SLCO2A1	433.86 7152	665.9359694	201.7983345	0.3030 29636	- 1.722469 199	0.02 5351	0.14 3647	Dow n
SLCO4A1	262.05 12142	459.0015316	65.10089673	0.1418 31546	- 2.817749 647	0.00 3939	0.03 6943	Dow n
SLCO4C1	110.77 42285	27.17336265	194.3750943	7.1531 48353	2.838578 363	1.42 E-06	5.52 E-05	Up
SLIT1	96.167 56215	21.08749752	171.2476268	8.1208 13133	3.021624 191	9.07 E-09	6.29 E-07	Up
SLIT3	4111.7 15264	6522.070306	1701.360223	0.2608 61988	- 1.938641 363	0.00 6024	0.05 099	Dow n
SLITRK2	513.57 9284	195.4783742	831.6801938	4.2545 89272	2.089019 864	3.01 E-08	1.76 E-06	Up
SLITRK4	42.632 72039	79.68569379	5.579747003	0.0700 21942	- 3.836049 122	2.00 E-06	7.40 E-05	Dow n
SLITRK6	91.766 05891	40.73675394	142.7953639	3.5053 20136	1.809546 21	0.00 0234	0.00 4153	Up
SLMAP	4243.4 41265	6914.147054	1572.735476	0.2274 66304	- 2.136275 249	0.04 6515	0.21 7375	Dow n
SMAD7	590.70 24697	827.9784959	353.4264434	0.4268 54617	- 1.228183	0.00 5408	0.04 7156	Dow n

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SMAD9	357.66 39675	587.0129843	128.3149507	0.2185 89629	- 2.193703 139	0.03 0378	0.16 2715	Dow n
SMARCD3	1832.0 3539	2712.85213	951.2186504	0.3506 34168	- 1.511961 506	0.03 7483	0.18 7364	Dow n
SMCO3	67.172 10738	24.30190371	110.042311	4.5281 35423	2.178917 106	6.39 E-05	0.00 1449	Up
SMIM10	157.55 50724	212.9714755	102.1386692	0.4795 88494	- 1.060131 048	0.01 2166	0.08 5015	Dow n
SMIM14	3355.2 94156	4838.028644	1872.559668	0.3870 50141	- 1.369407 621	8.26 E-05	0.00 178	Dow n
SMKR1	197.78 3913	50.87113835	344.6966876	6.7758 79189	2.760408 152	5.57 E-05	0.00 1285	Up
SMOC1	1286.4 77559	2056.736505	516.2186134	0.2509 89182	- 1.994302 911	1.98 E-08	1.22 E-06	Dow n
SMPD2	585.74 44151	370.4857685	801.0030617	2.1620 34631	1.112389 632	0.00 2492	0.02 6366	Up
SMPD3	73.546 59209	36.71623856	110.3769456	3.0062 16048	1.587948 695	0.00 3036	0.03 0788	Up
SMPDL3B	38.203 86952	63.3813902	13.02634885	0.2055 23243	- 2.282626 536	0.01 1294	0.08 0472	Dow n
SMYD2	367.35 76876	490.9492215	243.7661536	0.4965 20094	- 1.010075 99	0.00 9183	0.06 9537	Dow n
SNAI1	278.93 10452	406.6568328	151.2052576	0.3718 25199	- 1.427303 55	0.00 5812	0.04 982	Dow n
SNAI2	1468.5 46267	1996.281484	940.8110503	0.4712 8176	- 1.085338 25	0.03 0869	0.16 4437	Dow n
SNRK	685.74 20273	984.3988784	387.0851762	0.3932 19847	- 1.346591 955	0.00 0187	0.00 3493	Dow n
SNTB2	173.11 44853	253.4376581	92.79131243	0.3661 30721	- 1.449569 265	0.00 06	0.00 8838	Dow n
SNX7	437.88 72173	598.705372	277.0690626	0.4627 80318	- 1.111600	0.00 2819	0.02 9059	Dow n

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SOD2	4818.7 84932	2707.403786	6930.166079	2.5597 0909	1.355979 858	0.02 0994	0.12 6245	Up
SOD3	923.60 22148	1419.156014	428.0484156	0.3016 21817	- 1.729187 309	0.00 6862	0.05 6114	Down
SORBS1	5991.4 90757	10597.27851	1385.703008	0.1307 60271	- 2.935003 824	0.01 0933	0.07 8801	Down
SORL1	2313.4 98234	1124.567227	3502.429242	3.1144 68533	1.638985 996	0.00 0673	0.00 9667	Up
SORT1	2031.9 27888	949.239436	3114.61634	3.2811 704	1.714210 519	1.09 E-06	4.35 E-05	Up
SOWAHA	85.922 28862	43.84983898	127.9947383	2.9189 32914	1.545441 054	0.00 199	0.02 2195	Up
SOX10	5206.7 11609	2622.339771	7791.083446	2.9710 42704	1.570969 342	0.00 4312	0.03 9803	Up
SOX18	765.94 52383	1036.924537	494.9659398	0.4773 40368	- 1.066909 747	0.00 8986	0.06 8777	Down
SOX9	277.59 45473	115.0109696	440.1781251	3.8272 70796	1.936315 982	2.45 E-06	8.90 E-05	Up
SPAG6	15.699 15146	1.981044628	29.41725829	14.849 36678	3.892329 507	0.00 0379	0.00 6182	Up
SPARC	208129 .9539	361449.9616	54809.94618	0.1516 39098	- 2.721286 314	0.00 2451	0.02 6042	Down
SPATA20	809.02 47825	1183.847412	434.2021529	0.3667 72059	- 1.447044 357	0.00 856	0.06 6106	Down
SPDEF	246.34 6589	39.83679434	452.8563836	11.367 79179	3.506880 131	1.44 E-15	3.48 E-13	Up
SPEF2	31.919 8941	17.25859422	46.58119398	2.6990 1438	1.432432 663	0.03 7629	0.18 768	Up
SPHK1	904.89 76545	576.0544608	1233.740848	2.1417 08696	1.098762 266	0.00 2259	0.02 4541	Up
SPHKAP	109.39 40964	24.03228169	194.7559111	8.1039 29274	3.018621 583	3.14 E-09	2.41 E-07	Up
SPINT1	2175.5 70381	430.252148	3920.888614	9.1130 01835	3.187926 358	1.57 E-17	4.88 E-15	Up
SPINT2	9017.5 02098	3211.569536	14823.43466	4.6156 35593	2.206529 327	4.54 E-10	4.18 E-08	Up
SPIRE2	167.80 84114	102.3437654	233.2730573	2.2793 0892	1.188596 469	0.00 4411	0.04 0407	Up

SPN	393.14 4198	219.3029824	566.9854136	2.5853 97643	1.370386 189	0.00 0227	0.00 4068	Up
SPON1	5741.3 55728	10844.63292	638.0785331	0.0588 38186	- 4.087103 412	0.00 26	0.02 7269	Down
SPON2	1768.9 71001	2522.988105	1014.953897	0.4022 82474	- 1.313719 208	0.00 0135	0.00 2649	Down
SPP1	26363. 30548	2127.398793	50599.21216	23.784 54493	4.571952 517	2.58 E-10	2.52 E-08	Up
SPP2	106.61 52226	171.6166941	41.613751	0.2424 80787	- 2.044057 657	1.22 E-05	0.00 0352	Down
SPRY3	19.573 16803	30.58163932	8.564696743	0.2800 60093	- 1.836191 675	0.02 7693	0.15 2632	Down
SPSB1	1536.0 10223	2190.970847	881.0495998	0.4021 27487	- 1.314275 143	0.04 6602	0.21 7602	Down
SPSB2	230.78 9461	146.2856896	315.2932323	2.1553 25194	1.107905 558	0.00 5709	0.04 901	Up
SPSB4	77.471 55259	131.488523	23.45458216	0.1783 7741	- 2.486995 175	0.02 4551	0.14 0432	Down
SPTA1	7.2176 43055	13.35299004	1.082296068	0.0810 52713	- 3.624995 715	0.01 4284	0.09 582	Down
SPTBN1	16665. 49433	23277.96567	10053.02299	0.4318 68624	- 1.211335 59	0.00 0339	0.00 5667	Down
SPTBN5	245.08 68594	364.3244956	125.8492231	0.3454 31681	- 1.533527 689	0.00 0134	0.00 2624	Down
SPTSSA	1401.3 03155	1957.875309	844.7310011	0.4314 52911	- 1.212724 984	0.04 9456	0.22 6508	Down
SPTSSB	6.9514 11032	1.294531351	12.60829071	9.7396 5652	3.283870 895	0.03 4757	0.17 9111	Up
SRCIN1	290.47 94412	60.82831655	520.1305659	8.5507 96659	3.096058 839	8.66 E-08	4.49 E-06	Up
SRD5A1	1010.2 28758	526.8600642	1493.597452	2.8349 03523	1.503299 638	0.00 0531	0.00 8069	Up
SRL	318.18 69456	525.997643	110.3762481	0.2098 41716	- 2.252626	0.00 1473	0.01 785	Down

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SRPX	823.82 18644	1349.665544	297.9781852	0.2207 79279	- 2.179323 321	2.46 E-09	1.95 E-07	Dow n
SRPX2	392.22 73612	678.3152434	106.139479	0.1564 75149	- 2.675994 541	1.67 E-10	1.69 E-08	Dow n
SSC5D	1190.1 92157	1731.991616	648.3926978	0.3743 62492	- 1.417492 198	0.02 5212	0.14 3124	Dow n
SSPN	182.64 51013	299.1806691	66.10953348	0.2209 686	- 2.178086 723	0.01 0813	0.07 8243	Dow n
SSR3	2424.3 84204	3359.20856	1489.559848	0.4434 25831	- 1.173235 28	0.00 0624	0.00 9095	Dow n
SSTR1	46.126 11681	69.84176597	22.41046765	0.3208 74871	- 1.639917 284	0.00 6842	0.05 5977	Dow n
ST14	1748.6 33071	693.7991884	2803.466953	4.0407 46948	2.014622 005	6.47 E-07	2.73 E-05	Up
ST18	36.598 46185	8.941483594	64.2554401	7.1862 16854	2.845232 471	4.82 E-05	0.00 1133	Up
ST3GAL2	1345.8 67972	1835.200023	856.5359218	0.4667 26194	- 1.099351 657	0.00 1481	0.01 7892	Dow n
ST3GAL3	593.80 85316	836.4712314	351.1458318	0.4197 94272	- 1.252245 613	0.00 1245	0.01 5646	Dow n
ST8SIA4	163.55 94145	218.829819	108.28901	0.4948 54908	- 1.014922 507	0.01 6497	0.10 5979	Dow n
ST8SIA5	45.041 43787	65.3119647	24.77091103	0.3792 70646	- 1.398700 378	0.04 3272	0.20 6362	Dow n
STAB1	4302.7 83398	6758.843172	1846.723623	0.2732 30725	- 1.871808 368	0.00 1812	0.02 0726	Dow n
STAC	449.37 90246	636.8592452	261.898804	0.4112 34988	- 1.281965 081	0.00 049	0.00 7617	Dow n
STAG3	213.95 67255	127.5893767	300.3240743	2.3538 32914	1.235011 915	0.00 3151	0.03 1606	Up
STAM	446.10	608.114635	284.1031397	0.4671	-	0.00	0.03	Dow

	88874			86815	1.097928 535	3064	0974	n
STAP2	682.66 26554	270.1186052	1095.206706	4.0545 40059	2.019538 267	8.08 E-08	4.22 E-06	Up
STARD10	255.97 91057	149.676883	362.2813283	2.4204 2272	1.275259 032	0.02 2213	0.13 0933	Up
STARD13	806.17 25159	1215.337571	397.0074605	0.3266 64352	- 1.614119 068	6.70 E-06	0.00 0212	Down
STARD9	2301.4 23489	3261.322213	1341.524765	0.4113 43828	- 1.281583 297	0.00 0225	0.00 4046	Down
STC1	256.70 16942	410.0871736	103.3162147	0.2519 37201	- 1.988863 928	8.03 E-07	3.31 E-05	Down
STC2	230.88 47596	34.69615981	427.0733593	12.308 95182	3.621636 008	2.20 E-16	6.05 E-14	Up
STEAP1	150.33 47942	237.4423412	63.22724715	0.2662 84635	- 1.908958 91	1.44 E-05	0.00 0402	Down
STK17B	3327.9 7769	1539.358822	5116.596559	3.3238 49181	1.732854 921	1.79 E-06	6.78 E-05	Up
STK31	71.807 68176	39.4847579	104.1306056	2.6372 35509	1.399026 412	0.00 6396	0.05 3272	Up
STK33	29.734 73676	14.81065229	44.65882122	3.0153 17648	1.592309 99	0.02 5596	0.14 4542	Up
STK36	472.84 61476	304.6641582	641.0281371	2.1040 48408	1.073167 897	0.00 3528	0.03 4287	Up
STK38	2877.8 24283	4015.380685	1740.267881	0.4334 00471	- 1.206227 373	0.00 1999	0.02 2252	Down
STMND1	17.763 63069	6.727872899	28.79938848	4.2806 08286	2.097815 822	0.01 8782	0.11 6441	Up
STOM	3028.0 94092	4122.732984	1933.4552	0.4689 74151	- 1.092419 689	0.00 1425	0.01 7383	Down
STRA6	1017.5 15947	446.2142787	1588.817615	3.5606 60629	1.832144 937	6.05 E-07	2.59 E-05	Up
STRC	12.747 70907	3.44323689	22.05218125	6.4044 91459	2.679084 02	0.01 2327	0.08 5616	Up
STX19	139.48 76981	63.61805933	215.3573368	3.3851 60426	1.759224 206	0.00 0281	0.00 483	Up
STX2	735.84 80672	1040.772891	430.9232436	0.4140 41572	- 1.272152	0.00 0913	0.01 2332	Down

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STXBP1	1100.4 99721	1543.674335	657.3251059	0.4258 1851	- 1.231689 43	0.00 0581	0.00 8652	Dow n
STXBP2	693.38 45238	454.9655901	931.8034574	2.0480 74575	1.034268 248	0.00 4631	0.04 2021	Up
STXBP6	420.97 48731	655.8930889	186.0566572	0.2836 69184	- 1.817718 662	0.00 0674	0.00 9667	Dow n
SUCNR1	70.726 88119	129.2875027	12.16625967	0.0941 02364	- 3.409625 22	0.00 0249	0.00 4373	Dow n
SULF1	1648.4 00681	3049.477932	247.3234299	0.0811 03532	- 3.624091 452	9.00 E-05	0.00 1913	Dow n
SULT1A1	4999.9 09154	6887.405055	3112.413254	0.4518 99261	- 1.145926 897	0.00 0779	0.01 0916	Dow n
SULT1B1	150.15 05628	219.7871087	80.51401693	0.3663 27295	- 1.448794 896	0.00 0753	0.01 0621	Dow n
SULT1C4	237.20 26277	105.6241808	368.7810746	3.4914 45537	1.803824 468	0.00 1004	0.01 3273	Up
SULT2B1	27.416 71584	4.125220151	50.70821153	12.292 24373	3.619676 373	1.16 E-05	0.00 0338	Up
SUOX	950.28 17955	1383.983247	516.5803438	0.3732 56212	- 1.421761 825	6.58 E-05	0.00 1482	Dow n
SUSD1	153.61 80711	215.0156893	92.2204529	0.4289 01041	- 1.221283 278	0.00 4063	0.03 7847	Dow n
SUSD3	214.45 43815	94.60780214	334.300961	3.5335 45367	1.821116 432	1.91 E-05	0.00 0518	Up
SVEP1	7064.7 18005	12840.04026	1289.395747	0.1004 19915	- 3.315882 691	0.03 9301	0.19 3574	Dow n
SYBU	265.17 27081	135.9177686	394.4276476	2.9019 57938	1.537026 609	0.00 0106	0.00 2162	Up
SYDE1	832.99 60309	1186.162825	479.8292372	0.4045 22235	- 1.305709 09	0.00 0262	0.00 4554	Dow n
SYN1	53.557 67253	86.30947271	20.80587234	0.2410 61284	- 2.052528 129	0.03 5114	0.18 0337	Dow n

SYNC	1970.3 47446	3667.389079	273.3058143	0.0745 23267	- 3.746165 275	0.01 3734	0.09 3145	Down
SYNDIG1L	22.479 59293	8.598226955	36.36095891	4.2288 9034	2.080279 15	0.01 0518	0.07 6752	Up
SYNGR1	629.83 51609	301.1137733	958.5565485	3.1833 69986	1.670554 843	7.15 E-06	0.00 0225	Up
SYNGR2	1718.3 53987	1057.551862	2379.156112	2.2496 82685	1.169721 525	0.00 0842	0.01 1602	Up
SYNGR3	88.200 0801	57.00166368	119.3984965	2.0946 49328	1.066708 738	0.02 6957	0.14 962	Up
SYNM	10510. 61305	18316.15564	2705.070466	0.1476 87676	- 2.759378 648	0.03 7056	0.18 62	Down
SYNPO2	6211.5 77445	11352.87219	1070.282705	0.0942 74179	- 3.406993 508	0.00 9586	0.07 1823	Down
SYT1	1024.8 54367	183.1123677	1866.596366	10.193 72088	3.349608 85	0.00 0178	0.00 3364	Up
SYT15	90.137 22	125.6270338	54.64740622	0.4349 97186	- 1.200922 026	0.01 5158	0.09 9836	Down
SYT2	41.204 06744	19.93569742	62.47243746	3.1336 97114	1.647865 744	0.01 2812	0.08 831	Up
SYT3	111.83 8676	70.25931837	153.4180336	2.1835 96955	1.126706 59	0.01 4057	0.09 48	Up
SYT5	59.410 09792	32.26104244	86.55915341	2.6830 86065	1.423893 333	0.01 0603	0.07 7156	Up
SYT7	391.54 12541	559.1720301	223.9104781	0.4004 32186	- 1.320370 157	0.00 4351	0.04 0039	Down
SYT8	798.38 67273	154.3238751	1442.44958	9.3468 98389	3.224487 71	1.52 E-16	4.25 E-14	Up
SYT9	98.672 77248	171.9658862	25.37965872	0.1475 85427	- 2.760377 824	0.00 0113	0.00 2276	Down
SYTL1	418.20 36594	153.2958704	683.1114484	4.4561 6341	2.155802 138	4.86 E-08	2.65 E-06	Up
SYTL2	1652.4 10793	2351.130974	953.690612	0.4056 30576	- 1.301761 689	0.00 2366	0.02 5414	Down
SYTL4	783.94 77761	1073.040184	494.8553681	0.4611 71329	- 1.116625 27	0.01 3147	0.08 9934	Down

TACC1	4756.8 60624	6704.506379	2809.214868	0.4190 03982	- 1.254964 141	0.00 0277	0.00 477	Down
TACR2	67.319 94474	31.85416055	102.7857289	3.2267 59932	1.690086 247	0.00 1513	0.01 8129	Up
TACSTD2	827.56 98911	124.3133446	1530.826438	12.314 25671	3.622257 644	5.69 E-20	2.95 E-17	Up
TAGAP	192.37 89227	110.1433036	274.6145418	2.4932 47732	1.318026 238	0.00 1151	0.01 4733	Up
TAGLN	63200. 42653	106018.628	20382.22508	0.1922 51357	- 2.378934 315	0.03 6017	0.18 2625	Down
TAL1	604.11 10988	918.4522431	289.7699544	0.3154 98118	- 1.664296 695	5.72 E-06	0.00 0186	Down
TAP	11.236 26296	0.440357163	22.03216876	50.032 4977	5.644793 571	0.00 3584	0.03 4632	Up
TAP1	3205.3 06644	2101.860555	4308.752734	2.0499 70786	1.035603 35	0.00 912	0.06 9303	Up
TARP	72.185 30975	26.14538706	118.2252324	4.5218 3906	2.176909 645	7.12 E-05	0.00 1581	Up
TARSL2	157.06 03513	55.10057801	259.0201246	4.7008 60389	2.232924 835	8.65 E-07	3.54 E-05	Up
TAT	135.78 64512	17.09418342	254.4787191	14.886 86022	3.895967 603	0.00 0817	0.01 1314	Up
TBC1D4	1239.6 78702	1858.23307	621.1243346	0.3342 55344	- 1.580977 468	7.80 E-06	0.00 024	Down
TBC1D8B	622.99 42088	929.4716678	316.5167498	0.3405 34048	- 1.554129 042	0.00 1375	0.01 6911	Down
TBX1	66.772 24662	117.1108827	16.43361055	0.1403 25221	- 2.833153 759	2.96 E-07	1.36 E-05	Down
TBX15	640.45 85401	997.0360351	283.8810451	0.2847 2496	- 1.812359 125	0.00 5067	0.04 5051	Down
TBX18	155.90 0412	281.6999574	30.10086656	0.1068 54353	- 3.226282 42	0.00 944	0.07 0967	Down
TBX19	65.846 71021	33.17410683	98.5193136	2.9697 65369	1.570348 953	0.00 3519	0.03 4216	Up
TBX20	19.177 31645	37.00282628	1.35180663	0.0365 32524	- 4.774674	0.00 0632	0.00 9175	Down

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TBX21	78.420 59542	42.65529854	114.1858923	2.6769 45097	1.420587 55	0.00 4437	0.04 0578	Up
TCAIM	129.12 58723	81.86367516	176.3880695	2.1546 5613	1.107457 642	0.01 1474	0.08 1434	Up
TCF4	3829.8 21941	5215.973893	2443.669988	0.4684 97358	- 1.093887 183	0.00 1427	0.01 74	Down
TCN2	6590.1 60063	9450.518236	3729.801889	0.3946 66387	- 1.341294 441	9.17 E-05	0.00 1945	Down
TCOF1	1681.9 14676	1117.470917	2246.358435	2.0102 16464	1.007350 862	0.00 3908	0.03 6765	Up
TDRD9	41.153 08528	22.77432103	59.53184953	2.6139 90092	1.386253 673	0.02 7244	0.15 0705	Up
TDRKH	67.863 39445	28.21447218	107.5123167	3.8105 3794	1.929994 68	0.00 0499	0.00 7709	Up
TEAD2	1285.9 46827	809.944439	1761.949216	2.1753 95164	1.121277 493	0.00 151	0.01 8119	Up
TEAD4	170.05 81041	245.3243442	94.79186405	0.3863 94038	- 1.371855 26	0.01 6423	0.10 573	Down
TEK	1074.4 25256	1520.450407	628.4001059	0.4132 98654	- 1.274743 431	0.00 4305	0.03 9759	Down
TENM2	154.26 68603	90.45366588	218.0800547	2.4109 58722	1.269606 951	0.00 3912	0.03 678	Up
TENM4	289.43 28037	407.8649378	171.0006696	0.4192 58077	- 1.254089 516	0.00 1284	0.01 6052	Down
TERT	96.107 51867	19.45423954	172.7607978	8.8803 67562	3.150619 392	2.51 E-09	1.98 E-07	Up
TEX101	11.750 99512	0.391806901	23.11018334	58.983 60466	5.882242 087	0.00 014	0.00 273	Up
TEX26	49.949 57015	98.55158748	1.347552809	0.0136 73578	- 6.192465 394	2.29 E-07	1.08 E-05	Down
TF	124.76 76396	213.5227071	36.012572	0.1686 59214	- 2.567816 957	3.23 E-08	1.88 E-06	Down
TFAP2A	1761.2 90012	631.5394827	2891.040541	4.5777 66901	2.194644 003	1.79 E-09	1.50 E-07	Up
TFAP2B	321.95 79092	48.98898857	594.9268299	12.144 09293	3.602182 831	8.69 E-16	2.25 E-13	Up

TFAP2C	1206.7 5435	504.4358889	1909.07281	3.7845 69759	1.920129 3	6.37 E-07	2.70 E-05	Up
TFAP4	159.91 42196	82.95333495	236.8751042	2.8555 22378	1.513754 69	0.00 0494	0.00 7658	Up
TFCP2L1	56.210 82027	8.227944917	104.1936956	12.663 39246	3.662592 042	9.86 E-07	3.98 E-05	Up
TFPI	169.42 89343	286.7212216	52.136647	0.1818 37419	- 2.459278 981	2.15 E-05	0.00 0571	Down
TFR2	18.096 36881	29.12446234	7.068275288	0.2426 92044	- 2.042801 282	0.01 8614	0.11 5853	Down
TGFA	822.95 5949	152.1572926	1493.754605	9.8171 73924	3.295307 775	1.21 E-17	3.91 E-15	Up
TGFB1I1	3174.8 59851	4842.771446	1506.948256	0.3111 74763	- 1.684203 037	0.00 5834	0.04 9979	Down
TGFBR2	5667.8 22104	7825.258621	3510.385587	0.4485 9675	- 1.156508 926	0.00 0704	0.01 005	Down
TGFBR3	11589. 08309	16951.20341	6226.96278	0.3673 46355	- 1.444787 136	0.00 3143	0.03 1558	Down
TGIF1	1130.5 87612	741.6610503	1519.514175	2.0487 98671	1.034778 223	0.00 2785	0.02 8745	Up
TGIF2	738.76 54809	423.0764985	1054.454463	2.4923 49415	1.317506 341	0.00 0314	0.00 5281	Up
THBD	2489.4 94637	4489.211828	489.7774453	0.1091 00988	- 3.196263 93	0.00 0211	0.00 3868	Down
THBS2	3330.1 14634	6161.774829	498.4544392	0.0808 94621	- 3.627812 415	2.13 E-10	2.12 E-08	Down
THBS3	2340.0 43267	4255.789569	424.2969654	0.0996 98765	- 3.326280 552	2.51 E-05	0.00 0653	Down
THBS4	5333.0 68326	10109.59078	556.5458692	0.0550 51276	- 4.183080 195	0.04 8501	0.22 4282	Down
THEM4	235.22 20782	133.732823	336.7113335	2.5177 91265	1.332158 683	0.00 0971	0.01 2949	Up
THEM6	107.11 6874	35.97697558	178.2567725	4.9547 45907	2.308811 074	2.31 E-06	8.43 E-05	Up
THPO	189.47	303.9367078	75.01309094	0.2468	-	0.02	0.14	Down

	48994			04973	2.018556 631	5375	3738	n
THRB	731.26 55132	1114.95518	347.5758463	0.3117 39747	- 1.681585 982	3.28 E-06	0.00 0114	Dow n
THRSP	204.94 83093	382.9541578	26.94246079	0.0703 54272	- 3.829218 172	0.01 3009	0.08 9361	Dow n
THSD1	492.58 09727	812.4061267	172.7558188	0.2126 47115	- 2.233466 815	1.33 E-08	8.52 E-07	Dow n
THSD4	91.024 10267	154.1098693	27.93833609	0.1812 88429	- 2.463641 249	0.00 8452	0.06 556	Dow n
THSD7A	60.522 36326	90.61612767	30.42859884	0.3357 96724	- 1.574339 938	0.00 4151	0.03 8512	Dow n
THY1	13319. 61053	19605.10001	7034.121039	0.3587 90368	- 1.478786 936	0.00 0189	0.00 3535	Dow n
TIAM1	319.82 89197	164.5351743	475.122665	2.8876 66221	1.529903 994	6.77 E-05	0.00 1518	Up
TIE1	1612.5 86565	2268.098193	957.074936	0.4219 72443	- 1.244779 308	0.00 0284	0.00 4867	Dow n
TIMD4	233.41 37876	118.7207331	348.1068421	2.9321 48691	1.551958 265	0.00 0372	0.00 6097	Up
TIMP1	6650.4 64468	11476.18498	1824.74395	0.1590 02661	- 2.652877 185	1.16 E-07	5.84 E-06	Dow n
TIMP2	6060.6 11153	10588.3441	1532.878208	0.1447 70343	- 2.788162 005	1.39 E-05	0.00 0391	Dow n
TIMP3	6428.2 72819	9463.304505	3393.241132	0.3585 68313	- 1.479680 093	1.31 E-05	0.00 0374	Dow n
TJP3	1601.4 76537	871.4064945	2331.54658	2.6756 13041	1.419869 482	0.02 8426	0.15 5303	Up
TLDC2	6.9938 548	0	13.9877096	Inf	Inf	0.00 2225	0.02 4231	Up
TLL1	217.74 56092	364.1357951	71.35542329	0.1959 58278	- 2.351381 577	2.21 E-08	1.34 E-06	Dow n
TLL2	137.78	269.5596325	6.017203154	0.0223	-	0.01	0.10	Dow

	84178			22345	5.485367 588	6853	7564	n
TLR10	51.822 16469	32.69021468	70.95411471	2.1705 00115	1.118027 499	0.04 6781	0.21 8163	Up
TLR7	204.00 18356	106.6853514	301.3183197	2.8243 64505	1.497926 291	0.00 0309	0.00 5213	Up
TLR9	32.070 20836	18.08735348	46.05306323	2.5461 47134	1.348315 79	0.04 377	0.20 7969	Up
TM4SF5	41.748 36648	19.84653171	63.65020126	3.2071 19622	1.681278 166	0.00 8381	0.06 5219	Up
TMC4	1217.3 52194	566.0919951	1868.612392	3.3008 98809	1.722858 912	1.69 E-06	6.46 E-05	Up
TMC6	879.31 53284	560.7017085	1197.928948	2.1364 81716	1.095236 97	0.00 2122	0.02 341	Up
TMC8	279.73 86969	175.1633851	384.3140087	2.1940 31639	1.133584 33	0.00 3919	0.03 683	Up
TMCC3	316.02 03125	163.7317336	468.3088913	2.8602 20686	1.516126 465	0.00 012	0.00 239	Up
TMED3	1760.1 35699	2607.051532	913.2198659	0.3502 88383	- 1.513384 951	0.00 4045	0.03 7714	Dow n
TMEM100	400.86 77797	612.7366566	188.9989027	0.3084 50459	- 1.696889 304	0.00 5157	0.04 5561	Dow n
TMEM102	127.48 51718	37.64033318	217.3300105	5.7738 59902	2.529536 102	1.16 E-07	5.83 E-06	Up
TMEM108	42.809 33225	21.23752363	64.38114088	3.0314 806	1.600022 59	0.01 0538	0.07 6806	Up
TMEM116	80.310 31391	25.47683915	135.1437887	5.3045 74396	2.407237 004	9.71 E-05	0.00 2033	Up
TMEM119	1428.1 96396	2017.562398	838.8303949	0.4157 64289	- 1.266162 249	0.03 0743	0.16 3968	Dow n
TMEM132C	81.131 65357	10.04293911	152.220368	15.156 95419	3.921907 966	6.71 E-12	8.58 E-10	Up
TMEM132E	123.99 21374	199.2670641	48.71721064	0.2444 82001	- 2.032199 836	0.01 4125	0.09 5117	Dow n
TMEM135	481.08 36697	642.2509001	319.9164394	0.4981 17541	- 1.005441 878	0.00 5842	0.04 9979	Dow n
TMEM136	203.34 96875	335.8547739	70.84460123	0.2109 38199	- 2.245107 715	0.01 8801	0.11 6497	Dow n

TMEM139	114.39 3866	32.04887602	196.7388559	6.1387 13127	2.617936 252	4.62 E-06	0.00 0154	Up
TMEM144	198.10 31005	70.52815371	325.6780472	4.6177 0272	2.207175 298	2.82 E-07	1.31 E-05	Up
TMEM165	1512.5 85383	2035.300274	989.8704906	0.4863 51082	- 1.039929 968	0.00 2439	0.02 594	Down
TMEM173	762.81 8589	461.9939925	1063.643186	2.3022 87915	1.203068 262	0.00 0712	0.01 0117	Up
TMEM176A	795.19 44659	239.9394141	1350.449518	5.6282 93803	2.492697 641	1.59 E-06	6.13 E-05	Up
TMEM176B	987.98 30503	485.537441	1490.42866	3.0696 47227	1.618072 866	0.00 0129	0.00 2542	Up
TMEM184A	125.72 60501	39.09346542	212.3586347	5.4320 74964	2.441503 389	3.00 E-07	1.37 E-05	Up
TMEM184B	1573.1 28088	2171.456472	974.7997044	0.4489 15148	- 1.155485 315	0.00 0986	0.01 3115	Down
TMEM190	111.89 19313	52.56395563	171.219907	3.2573 63433	1.703704 694	0.00 0408	0.00 6545	Up
TMEM200B	539.30 46222	748.0124804	330.5967639	0.4419 66909	- 1.177989 739	0.02 4983	0.14 2215	Down
TMEM213	17.645 52637	1.589237727	33.70181502	21.206 27673	4.406419 438	5.07 E-05	0.00 1183	Up
TMEM229B	313.30 87344	162.4342032	464.1832656	2.8576 69484	1.514839 065	0.00 0101	0.00 2089	Up
TMEM255A	95.141 0273	179.1234961	11.15855846	0.0622 95336	- 4.004732 025	5.06 E-12	6.65 E-10	Down
TMEM257	31.303 13091	10.80454279	51.80171904	4.7944 38789	2.261361 951	0.00 1595	0.01 8867	Up
TMEM263	2707.5 99281	4007.254002	1407.944561	0.3513 48969	- 1.509023 431	1.50 E-05	0.00 0415	Down
TMEM30B	852.00 58558	460.5394284	1243.472283	2.7000 34365	1.432977 77	9.33 E-05	0.00 197	Up
TMEM44	528.84 872	709.4145764	348.2828636	0.4909 44048	- 1.026369 483	0.00 4973	0.04 4455	Down
TMEM45B	152.84 48093	11.62652161	294.063097	25.292 43974	4.660634 302	2.55 E-19	1.13 E-16	Up
TMEM47	399.92 81246	667.5995075	132.2567416	0.1981 07908	- 2.335641	0.00 0953	0.01 2775	Down

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TMEM54	101.97 96893	33.22979726	170.7295814	5.1378 46013	2.361163 652	1.77 E-06	6.72 E-05	Up
TMEM55A	52.978 09108	82.60439392	23.35178824	0.2826 94263	- 1.822685 491	0.00 1457	0.01 7691	Down
TMEM63C	41.748 24253	7.418276237	76.07820882	10.255 51036	3.358327 384	1.05 E-06	4.21 E-05	Up
TMEM65	414.94 48578	648.2759269	181.6137886	0.2801 48901	- 1.835734 261	0.00 0836	0.01 152	Down
TMEM74B	20.444 58353	4.054659765	36.83450729	9.0844 8783	3.183405 18	0.00 0496	0.00 7673	Up
TMEM79	259.06 02106	88.34591433	429.7745069	4.8646 78917	2.282344 586	5.39 E-08	2.91 E-06	Up
TMEM89	40.600 39368	15.97199768	65.22878967	4.0839 46852	2.029964 091	0.00 1973	0.02 2073	Up
TMEM9	1010.4 89967	622.4918193	1398.488114	2.2465 96776	1.167741 21	0.00 1052	0.01 3771	Up
TMF1	865.07 87435	1193.186106	536.9713813	0.4500 31541	- 1.151901 978	0.00 1353	0.01 6719	Down
TMIGD2	15.567 66883	5.847158572	25.28817908	4.3248 66304	2.112655 535	0.02 6586	0.14 815	Up
TMOD1	479.87 42245	800.2438297	159.5046193	0.1993 20024	- 2.326841 442	0.02 5898	0.14 5746	Down
TMOD2	491.57 99306	832.0313107	151.1285505	0.1816 38057	- 2.460861 587	0.00 0643	0.00 9315	Down
TMPRSS2	1553.6 05466	281.2728217	2825.938111	10.046 9647	3.328687 808	4.12 E-18	1.50 E-15	Up
TMPRSS4	50.165 93903	1.981044628	98.35083342	49.645 94541	5.633603 992	7.49 E-06	0.00 0232	Up
TMPRSS5	6.1192 14871	12.23842974	0	0	#NAME?	0.02 5408	0.14 3807	Down
TMPRSS6	182.54 78405	81.3529123	283.7427687	3.4878 00998	1.802317 727	2.36 E-05	0.00 0622	Up
TMTC1	251.54 16777	402.4507415	100.632614	0.2500 49518	- 1.999714 27	0.00 3165	0.03 168	Down
TMX4	1851.2 01016	2552.929235	1149.472797	0.4502 56428	- 1.151181 223	0.00 0996	0.01 3191	Down

TNF	119.28 9261	31.25343734	207.3250847	6.6336 73041	2.729807 907	1.94 E-08	1.20 E-06	Up
TNFAIP2	726.13 79156	425.9461429	1026.329688	2.4095 29246	1.268751 312	0.03 7098	0.18 626	Up
TNFAIP6	447.62 14369	819.6929539	75.5499199	0.0921 68561	- 3.439581 466	0.00 0514	0.00 7886	Down
TNFAIP8L3	644.33 00423	1108.366505	180.2935792	0.1626 6603	- 2.620015 094	0.00 3484	0.03 3988	Down
TNFRSF12 A	1303.1 37079	2123.0528	483.2213578	0.2276 06849	- 2.135384 125	0.03 7474	0.18 7364	Down
TNFRSF18	63.216 75565	28.66501459	97.76849672	3.4107 25517	1.770078 657	0.00 1583	0.01 8766	Up
TNFRSF19	501.73 40483	282.0952523	721.3728442	2.5571 95977	1.354562 729	0.00 0252	0.00 4408	Up
TNFRSF21	4152.2 91963	1954.19588	6350.388045	3.2496 16945	1.700269 668	9.51 E-05	0.00 2002	Up
TNFSF11	293.95 76191	6.577052142	581.3381861	88.388 86685	6.465792 759	5.55 E-35	3.36 E-31	Up
TNFSF13B	127.27 60887	43.81764361	210.7345339	4.8093 53413	2.265842 946	1.24 E-06	4.88 E-05	Up
TNFSF14	41.070 22357	24.59561041	57.54483674	2.3396 38488	1.226285 627	0.04 0358	0.19 6961	Up
TNFSF18	88.833 87325	167.9980374	9.669709102	0.0575 58465	- 4.118828 08	0.00 0141	0.00 2739	Down
TNK1	409.94 67433	158.8253631	661.0681235	4.1622 32723	2.057357 633	1.63 E-07	7.94 E-06	Up
TNMD	14.917 76551	26.26093821	3.574592813	0.1361 18245	- 2.877067 643	0.00 353	0.03 4287	Down
TNNI2	51.521 98867	15.03479828	88.00917907	5.8536 98695	2.549348 488	3.13 E-05	0.00 0785	Up
TNS1	10113. 90214	17089.56939	3138.234895	0.1836 34521	- 2.445090 8	2.79 E-07	1.30 E-05	Down
TNXB	10070. 94336	14627.97488	5513.911835	0.3769 42938	- 1.407581 95	2.43 E-05	0.00 0638	Down
TOP1MT	46.827 33858	15.52711051	78.12756665	5.0316 87423	2.331042 302	0.00 0216	0.00 3935	Up
TOX3	42.368	25.49155441	59.24529601	2.3241	1.216681	0.04	0.22	Up

	42521			14687	263	8932	5472	
TP53I11	401.00 64367	534.866178	267.1466954	0.4994 64551	- 1.001545 808	0.00 6707	0.05 5073	Dow n
TP53INP2	788.66 31878	1239.562769	337.7636069	0.2724 86086	- 1.875745 533	0.01 7131	0.10 8857	Dow n
TP63	994.08 21716	352.9308777	1635.233465	4.6332 96684	2.212039 066	2.65 E-09	2.06 E-07	Up
TP73	252.06 18075	78.11588518	426.0077298	5.4535 35204	2.447191 747	5.70 E-09	4.12 E-07	Up
TPD52L1	238.00 27276	117.5815817	358.4238736	3.0482 99474	1.608004 645	0.01 2371	0.08 5885	Up
TPM1	21136. 23728	33946.20318	8326.271369	0.2452 78428	- 2.027507 736	0.03 4813	0.17 9297	Dow n
TPM2	39563. 04087	69850.19744	9275.884306	0.1327 96823	- 2.912707 463	0.04 1013	0.19 8559	Dow n
TPM4	15688. 69341	20921.2997	10456.08712	0.4997 8191	- 1.000629 412	0.00 3258	0.03 241	Dow n
TPO	47.728 16073	5.529316858	89.9270046	16.263 6736	4.023581 261	7.44 E-09	5.24 E-07	Up
TRAF2	1522.7 49045	891.0974325	2154.400657	2.4176 9371	1.273631 486	0.00 0276	0.00 4759	Up
TRAF4	1258.2 31173	833.7377447	1682.7246	2.0182 90057	1.013133 525	0.03 2006	0.16 8786	Up
TRAF5	409.28 76448	640.0310004	178.5442892	0.2789 6194	- 1.841859 795	0.04 9789	0.22 774	Dow n
TRAK2	474.20 70031	662.0256047	286.3884015	0.4325 94147	- 1.208913 951	0.00 1145	0.01 4692	Dow n
TRAM2	2500.8 82493	3907.217701	1094.547285	0.2801 34707	- 1.835807 36	0.00 5991	0.05 0794	Dow n
TRAPPC6A	516.33 35132	264.2477094	768.419317	2.9079 50721	1.540002 821	3.66 E-05	0.00 0903	Up
TRAT1	89.287 59857	46.03979992	132.5353972	2.8787 1358	1.525424 254	0.00 1682	0.01 9595	Up
TREM2	131.11 10442	25.59658975	236.6254986	9.2444 15013	3.208582 029	4.16 E-11	4.60 E-09	Up
TRERF1	428.31	580.2015374	276.4186047	0.4764	-	0.00	0.04	Dow

	0071			18256	1.069699 397	4488	0932	n
TRIM14	191.72 38727	75.11458678	308.3331586	4.1048 37313	2.037325 045	1.64 E-06	6.29 E-05	Up
TRIM15	6.3710 4595	0.391806901	12.350285	31.521 3565	4.978257 716	0.01 1999	0.08 4274	Up
TRIM16	447.99 53455	626.8419138	269.1487772	0.4293 72656	- 1.219697 778	0.00 1096	0.01 4211	Down
TRIM29	1324.9 38744	388.1306973	2261.746791	5.8272 81395	2.542822 979	9.13 E-12	1.15 E-09	Up
TRIM34	453.00 55007	291.3004977	614.7105037	2.1102 28128	1.077398 971	0.00 3565	0.03 4499	Up
TRIM36	316.00 46704	164.8929535	467.1163874	2.8328 46265	1.502252 311	0.00 0156	0.00 2998	Up
TRIM6	23.215 11973	10.71537708	35.71486237	3.3330 47649	1.736841 942	0.03 3466	0.17 3994	Up
TRIM9	349.30 22636	96.87943319	601.725094	6.2110 71579	2.634842 194	1.84 E-06	6.90 E-05	Up
TRMT2B	41.593 88056	58.27822966	24.90953145	0.4274 24299	- 1.226259 168	0.04 4969	0.21 2329	Down
TRNP1	136.93 54354	192.7232531	81.14761773	0.4210 57742	- 1.247910 004	0.02 0576	0.12 4092	Down
TRPC1	280.53 89574	389.51238	171.5655347	0.4404 62341	- 1.182909 419	0.00 2737	0.02 837	Down
TRPM2	867.80 98099	461.6039243	1274.015696	2.7599 75876	1.464655 657	0.00 0481	0.00 7523	Up
TRPM3	120.46 50002	168.1433073	72.78669307	0.4328 84866	- 1.207944 731	0.01 6582	0.10 6302	Down
TRPM6	135.02 01986	196.7898924	73.25050487	0.3722 26967	- 1.425745 514	0.00 1376	0.01 6912	Down
TRPS1	4838.4 33921	2398.371201	7278.49664	3.0347 66527	1.601585 53	0.00 0136	0.00 2656	Up
TRPV3	48.299 90659	20.2242633	76.37554988	3.7764 31742	1.917023 711	0.01 9396	0.11 8765	Up
TRPV4	126.20 88839	65.93989716	186.4778707	2.8279 97597	1.499780 894	0.00 085	0.01 1659	Up
TRPV6	464.74 81014	26.10136681	903.3948359	34.611 01644	5.113159 406	4.78 E-30	1.08 E-26	Up

TSC22D2	1110.6 84657	1496.000039	725.3692745	0.4848 72497	- 1.044322 672	0.02 4485	0.14 0273	Dow n
TSHZ3	358.14 46848	532.1319127	184.157457	0.3460 74822	- 1.530844 109	0.00 6982	0.05 6844	Dow n
TSLP	48.598 00488	72.80436082	24.39164893	0.3350 30054	- 1.577637 576	0.00 6397	0.05 3272	Dow n
TSPAN1	94.804 81811	7.580921872	182.0287143	24.011 42202	4.585648 941	3.12 E-15	7.08 E-13	Up
TSPAN19	100.37 48897	30.08984151	170.6599378	5.6716 79518	2.503776 014	6.51 E-07	2.74 E-05	Up
TSPAN33	159.86 85721	97.91580767	221.8213365	2.2654 29268	1.179784 447	0.00 6633	0.05 4711	Up
TSPYL4	1489.3 05319	985.0946478	1993.51599	2.0236 79648	1.016980 927	0.00 3828	0.03 6271	Up
TST	1418.0 12096	592.6996663	2243.324525	3.7849 2625	1.920265 189	9.84 E-08	5.05 E-06	Up
TTC12	75.560 9529	16.49699054	134.6249153	8.1605 74192	3.028670 666	4.28 E-08	2.36 E-06	Up
TTC21A	279.85 98973	171.4830521	388.2367426	2.2639 94825	1.178870 661	0.00 2741	0.02 8372	Up
TTC22	21.967 91855	7.554381733	36.38145537	4.8159 40821	2.267817 664	0.00 8005	0.06 308	Up
TTC25	32.125 34253	14.6954317	49.55525335	3.3721 53629	1.753670 264	0.01 207	0.08 4511	Up
TTC28	1275.0 98281	1846.494123	703.70244	0.3811 01912	- 1.391751 25	8.93 E-05	0.00 1902	Dow n
TTC31	136.38 6957	90.16963001	182.604284	2.0251 19588	1.018007 105	0.02 2331	0.13 1504	Up
TTC39B	164.02 03947	252.0235812	76.01720814	0.3016 27363	- 1.729160 783	0.00 0356	0.00 5875	Dow n
TTC39C	247.22 76172	152.4744944	341.9807399	2.2428 71776	1.165347 144	0.00 3543	0.03 4383	Up
TTC6	30.210 92753	3.680332972	56.74152209	15.417 49687	3.946496 649	0.00 0547	0.00 8247	Up
TTLL10	52.594 77003	18.6570357	86.53250437	4.6380 62862	2.213522 374	0.00 0252	0.00 4405	Up
TTLL7	365.71 81817	616.2876434	115.1487201	0.1868 42494	- 2.420105 49	5.11 E-08	2.78 E-06	Dow n

TUBA1D	82.343 32723	9.703087272	154.9835672	15.972 60365	3.997527 597	4.91 E-12	6.50 E-10	Up
TUBA4A	544.45 28027	319.5683966	769.3372087	2.4074 25818	1.267491 344	0.00 1406	0.01 7231	Up
TUBA8	65.394 58197	37.01805595	93.77110798	2.5331 18111	1.340914 347	0.01 1257	0.08 0304	Up
TUBB6	3519.4 79769	5413.341529	1625.618008	0.3002 98438	- 1.735531 122	0.02 8735	0.15 6565	Down
TUBD1	172.08 46618	101.013663	243.1556607	2.4071 56154	1.267329 734	0.00 2856	0.02 9336	Up
TULP2	375.73 31976	248.3241073	503.1422879	2.0261 51602	1.018742 125	0.00 7088	0.05 7393	Up
TUSC5	946.76 51523	1886.868583	6.661721999	0.0035 3057	- 8.145883 08	0.00 8721	0.06 7091	Down
TWIST1	433.48 58081	626.5090272	240.462589	0.3838 13447	- 1.381522 839	0.03 7513	0.18 7409	Down
TXK	129.99 25384	45.94561893	214.0394579	4.6585 39006	2.219877 573	1.81 E-06	6.82 E-05	Up
TXNDC5	2385.1 4017	3204.668301	1565.612039	0.4885 41057	- 1.033448 284	0.00 2269	0.02 4626	Down
TYR	10.819 35536	0.413817024	21.22489369	51.290 52805	5.680620 519	0.02 9864	0.16 0789	Up
TYRO3	374.06 33984	223.3897994	524.7369973	2.3489 74746	1.232031 203	0.00 1496	0.01 8034	Up
UAP1L1	811.96 57538	526.9617549	1096.969753	2.0816 87603	1.057753 581	0.00 2886	0.02 9604	Up
UBD	576.78 32027	304.0591057	849.5072998	2.7938 88701	1.482274 55	0.00 908	0.06 9214	Up
UBL4B	41.917 43683	62.00222316	21.8326505	0.3521 26898	- 1.505832 661	0.01 713	0.10 8857	Down
UCN2	10.555 71396	2.786668553	18.32475937	6.5758 66137	2.717180 931	0.02 767	0.15 2597	Up
UFM1	565.72 2583	759.6481035	371.7970624	0.4894 33279	- 1.030815 893	0.00 5434	0.04 7206	Down
UGGT2	330.46 25054	586.2624437	74.6625672	0.1273 53488	- 2.973089 619	2.30 E-06	8.41 E-05	Down
UGP2	4991.6	7323.699972	2659.588668	0.3631	-	0.04	0.20	Down

	4432			48228	1.461369 554	2308	3095	n
UGT8	217.94 10107	51.89914309	383.9828783	7.3986 3619	2.887259 359	1.93 E-08	1.19 E-06	Up
UHK1	99.828 8325	134.1062296	65.55143541	0.4888 02315	- 1.032676 978	0.03 2844	0.17 1841	Down
UMODL1	21.846 38013	43.44264771	0.250112546	0.0057 57304	- 7.440390 797	1.01 E-05	0.00 03	Down
UNC13B	2610.2 47329	3864.810923	1355.683735	0.3507 76212	- 1.511377 181	1.05 E-05	0.00 0309	Down
UNC13D	295.85 29554	197.0843938	394.6215171	2.0022 97136	1.001656 082	0.00 8437	0.06 5512	Up
UNC93B1	1670.0 96623	1071.454557	2268.738689	2.1174 38088	1.082319 787	0.00 1898	0.02 1472	Up
UPP1	99.516 26759	146.4357157	52.59681945	0.3591 80267	- 1.477220 004	0.00 1756	0.02 0241	Down
USH1C	77.318 36363	14.52777079	140.1089565	9.6442 15791	3.269663 932	5.44 E-09	4.00 E-07	Up
USP13	315.02 46023	426.2102855	203.838919	0.4782 59033	- 1.064135 878	0.02 4133	0.13 8958	Down
USP2	263.04 80025	131.9796889	394.1163162	2.9861 8916	1.578305 556	8.60 E-05	0.00 1845	Up
USP43	223.44 46667	104.6095442	342.2797892	3.2719 7477	1.710161 624	0.00 0125	0.00 2477	Up
USP44	117.06 84918	28.99808598	205.1388977	7.0742 21996	2.822571 493	1.07 E-08	7.22 E-07	Up
UST	585.93 89916	865.1356628	306.7423203	0.3545 59792	- 1.495899 156	0.02 9037	0.15 7963	Down
VANGL2	138.17 57843	71.16785274	205.1837158	2.8830 95497	1.527618 624	0.00 0485	0.00 756	Up
VASN	1214.7 35777	1734.7663	694.7052551	0.4004 60428	- 1.320268 406	0.00 0168	0.00 3196	Down
VAV1	229.57 13488	135.2064512	323.9362463	2.3958 63831	1.260545 915	0.00 1349	0.01 6681	Up
VAV3	944.13 93118	452.9452099	1435.333414	3.1688 89707	1.663977 448	9.68 E-05	0.00 2033	Up
VCAN	8116.9	14532.58714	1701.243999	0.1170	-	0.00	0.02	Down

	15568			64084	3.094629 581	1838	0947	n
VCL	13920. 18162	22297.00533	5543.357907	0.2486 14459	- 2.008017 894	0.00 6003	0.05 0857	Dow n
VCPKMT	420.45 57683	187.1918988	653.7196378	3.4922 43212	1.804154 037	2.31 E-06	8.43 E-05	Up
VEPH1	99.011 53051	52.90930801	145.113753	2.7426 88545	1.455590 802	0.00 2671	0.02 7809	Up
VGLL1	29.790 46166	3.178475453	56.40244786	17.745 12614	4.149350 925	8.79 E-07	3.58 E-05	Up
VGLL3	3356.0 14119	6261.645817	450.3824204	0.0719 27163	- 3.797319 485	0.00 1893	0.02 1443	Dow n
VIM	56257. 33786	83559.44781	28955.2279	0.3465 2249	- 1.528979 106	9.58 E-06	0.00 0288	Dow n
VKORC1	1082.0 71346	1503.737391	660.405302	0.4391 75953	- 1.187129 032	0.00 4453	0.04 0704	Dow n
VNN1	484.91 84732	189.1397653	780.697181	4.1276 20545	2.045310 349	0.03 702	0.18 6169	Up
VPS37D	108.30 83562	70.38459866	146.2321136	2.0776 15223	1.054928 49	0.02 4426	0.14 011	Up
VSIG1	9.9914 96037	0.783613802	19.19937827	24.501 07213	4.614772 976	0.00 1745	0.02 0164	Up
VSNL1	139.89 07716	37.98796515	241.7935781	6.3650 04738	2.670161 588	1.18 E-08	7.79 E-07	Up
VSTM2L	82.373 33426	54.38521585	110.3614527	2.0292 54659	1.020949 926	0.03 7237	0.18 6751	Up
VTCN1	10.544 39531	2.350841405	18.73794921	7.9707 41529	2.994713 946	0.01 7451	0.11 0391	Up
VWA7	167.98 10736	39.30238173	296.6597654	7.5481 37094	2.916120 626	1.21 E-10	1.26 E-08	Up
VWC2	8.7697 83332	0.832164064	16.7074026	20.077 0537	4.327475 665	0.00 4224	0.03 9084	Up
WBP1	1847.1 003	958.9625503	2735.23805	2.8522 88705	1.512120 017	1.40 E-05	0.00 0392	Up
WBP5	115.90 85887	191.730723	40.08645436	0.2090 76843	- 2.257894 811	6.49 E-06	0.00 0207	Dow n
WDR6	3853.4 59097	2397.361547	5309.556647	2.2147 50067	1.147143 901	0.00 0817	0.01 1314	Up
WDR72	73.534	35.00287491	112.065579	3.2016	1.678797	0.01	0.10	Up

	22694			10703	895	6088	3979	
WDR90	870.69 48103	533.5529778	1207.836643	2.2637 61413	1.178721 915	0.00 11	0.01 4257	Up
WFDC1	1680.3 66562	2872.062324	488.6707999	0.1701 46308	- 2.555152 251	0.03 2379	0.16 988	Down
WFDC18	75.109 20866	11.10490439	139.1135129	12.527 21392	3.646993 687	0.02 3343	0.13 5667	Up
WFDC2	349.74 54089	29.08175115	670.4090667	23.052 56871	4.526855 612	6.49 E-24	6.93 E-21	Up
WFIKKN2	107.20 4295	205.0159635	9.392626443	0.0458 14122	- 4.448063 806	0.00 1412	0.01 7282	Down
WIPF1	1632.3 05735	2352.160696	912.450774	0.3879 20254	- 1.366167 992	0.01 0007	0.07 382	Down
WIPF3	815.68 62251	1202.923766	428.4486842	0.3561 72765	- 1.489350 89	0.02 9043	0.15 7963	Down
WIPI1	924.48 10362	1482.465643	366.496429	0.2472 20858	- 2.016127 624	0.00 4669	0.04 2302	Down
WISP2	1435.3 70713	2522.96807	347.7733551	0.1378 42947	- 2.858902 639	0.01 3132	0.08 9863	Down
WISP3	77.369 75781	8.861863177	145.8776524	16.461 28467	4.041005 026	3.77 E-08	2.13 E-06	Up
WNK2	1169.0 98752	419.1787168	1919.018787	4.5780 44425	2.194731 463	1.45 E-09	1.24 E-07	Up
WNK4	166.04 24794	81.9769547	250.1080041	3.0509 55053	1.609260 926	0.00 0219	0.00 3961	Up
WNT10A	78.464 536	25.03599673	131.8930753	5.2681 37582	2.397293 023	8.89 E-06	0.00 027	Up
WNT2	92.579 78558	124.4561934	60.70337773	0.4877 48951	- 1.035789 326	0.02 7035	0.14 9896	Down
WNT4	639.69 51496	178.9245643	1100.465735	6.1504 45239	2.620690 853	5.37 E-12	7.02 E-10	Up
WNT5B	191.06 93688	60.52357962	321.6151581	5.3138 81963	2.409766 182	3.92 E-08	2.18 E-06	Up
WNT6	168.23 98966	78.97054463	257.5092486	3.2608 2655	1.705237 703	0.00 1169	0.01 491	Up
WWC1	1630.3 70315	614.392859	2646.347772	4.3072 56722	2.106769 314	3.73 E-08	2.11 E-06	Up

WWC3	1642.2 8354	2203.338034	1081.229046	0.4907 2318	- 1.027018 675	0.00 3277	0.03 2495	Dow n
XCL2	72.654 50889	34.59002841	110.7189894	3.2008 93276	1.678474 576	0.00 1638	0.01 9189	Up
XCR1	28.709 49548	14.25230969	43.16668126	3.0287 49879	1.598722 442	0.02 3181	0.13 5145	Up
XG	1898.5 88005	2905.90611	891.2699013	0.3067 09807	- 1.705053 799	0.00 0551	0.00 8288	Dow n
XYLT1	1035.6 73865	1826.723795	244.6239353	0.1339 14025	- 2.900621 035	6.40 E-09	4.56 E-07	Dow n
YBX2	188.65 59862	113.3553629	263.9566094	2.3285 7628	1.219448 143	0.00 3965	0.03 7128	Up
YDJC	58.214 56448	23.19655813	93.23257082	4.0192 41574	2.006923 292	0.00 0477	0.00 7469	Up
YPEL1	308.27 67859	152.9750428	463.578529	3.0304 19345	1.599517 445	3.59 E-05	0.00 0889	Up
YWHAG	2040.6 86192	2922.97139	1158.400993	0.3963 09385	- 1.335300 964	0.00 2774	0.02 8678	Dow n
YWHAZ	331.76 74304	447.9762651	215.5585957	0.4811 83073	- 1.055342 204	0.00 6326	0.05 2856	Dow n
ZAP70	986.06 44674	453.9627741	1518.166161	3.3442 52541	1.741683 797	1.39 E-06	5.43 E-05	Up
ZBBX	3.5477 83236	0	7.095566473	Inf	Inf	0.04 1967	0.20 1862	Up
ZBED6CL	419.40 25488	235.3617026	603.443395	2.5638 97985	1.358338 86	0.00 0381	0.00 6207	Up
ZBP1	175.26 74833	95.24804474	255.2869218	2.6802 32676	1.422358 249	0.00 0776	0.01 0883	Up
ZBTB16	1138.2 10236	1519.155934	757.2645379	0.4984 77161	- 1.004400 688	0.01 8248	0.11 4195	Dow n
ZBTB20	82.983 80705	118.931921	47.03569309	0.3954 84179	- 1.338308 114	0.01 9829	0.12 0603	Dow n
ZBTB8B	21.030 32768	8.474586291	33.58606907	3.9631 51464	1.986648 105	0.01 8486	0.11 5215	Up
ZBTB9	260.71 4203	157.9616065	363.4667995	2.3009 81913	1.202249 643	0.00 2441	0.02 595	Up
ZCCHC18	144.52	81.74179966	207.3015911	2.5360	1.342585	0.00	0.02	Up

	16954			5367	278	1862	1156	
ZCCHC24	1458.5 35455	2223.359	693.7119104	0.3120 10751	- 1.680332 356	1.85 E-06	6.92 E-05	Dow n
ZCWPW1	202.40 90977	109.2168038	295.6013916	2.7065 55963	1.436458 219	0.00 0455	0.00 7177	Up
ZDBF2	15.686 68895	31.10386733	0.269510562	0.0086 64857	- 6.850608 349	0.00 2351	0.02 5288	Dow n
ZDHHC15	206.98 00938	135.1317789	278.8284087	2.0633 81472	1.045010 567	0.01 2057	0.08 4511	Up
ZDHHC2	1055.9 88876	1751.148803	360.8289492	0.2060 52706	- 2.278914 686	0.00 4478	0.04 0873	Dow n
ZEB1	1294.5 30834	1967.193122	621.8685473	0.3161 19724	- 1.661457 04	0.02 0156	0.12 2017	Dow n
ZEB2	166.04 08576	278.7460629	53.33565224	0.1913 41365	- 2.385779 297	0.00 1108	0.01 4333	Dow n
ZFP1	179.89 80595	116.5221391	243.2739799	2.0877 91915	1.061977 93	0.01 1079	0.07 9441	Up
ZFP36	3466.4 50745	5456.927232	1475.974259	0.2704 77174	- 1.886421 245	0.04 3528	0.20 7089	Dow n
ZFPM2	303.96 60578	519.1194313	88.81268428	0.1710 83336	- 2.547228 848	0.00 0964	0.01 2886	Dow n
ZFR2	73.578 29863	20.05255763	127.1040396	6.3385 45035	2.664151 719	1.42 E-06	5.52 E-05	Up
ZFYVE19	247.56 35139	125.1100261	370.0170017	2.9575 32767	1.564394 153	0.00 0101	0.00 2089	Up
ZHX1	1525.0 42513	2051.125901	998.9591243	0.4870 29647	- 1.037918 498	0.04 3938	0.20 8547	Dow n
ZHX3	1487.9 86831	2144.561883	831.4117801	0.3876 83744	- 1.367047 852	9.25 E-05	0.00 1959	Dow n
ZIC2	8.9109 76047	17.82195209	0	0	#NAME?	6.56 E-05	0.00 148	Dow n
ZMAT1	85.761 51771	47.81742877	123.7056066	2.5870 40119	1.371302 427	0.00 5064	0.04 5046	Up
ZMAT4	13.335 23285	2.025064875	24.64540082	12.170 17841	3.605278 413	0.00 1827	0.02 0864	Up

ZMIZ2	2160.8 05745	1198.890612	3122.720879	2.6046 75397	1.381103 59	7.44 E-05	0.00 1637	Up
ZMYND10	5.0435 76382	0	10.08715276	Inf	Inf	0.01 0137	0.07 4478	Up
ZNF114	16.104 66106	25.71554571	6.493776409	0.2525 23376	- 1.985511 153	0.03 7117	0.18 6303	Down
ZNF182	451.11 43357	261.0305596	641.1981119	2.4564 10135	1.296551 46	0.00 0499	0.00 7709	Up
ZNF232	11.455 24603	2.003054751	20.90743731	10.437 77625	3.383742 476	0.00 5604	0.04 8308	Up
ZNF235	538.23 98359	344.943957	731.5357149	2.1207 37876	1.084566 315	0.00 3847	0.03 6355	Up
ZNF274	315.51 51706	198.514654	432.5156872	2.1787 59494	1.123506 951	0.00 3755	0.03 5804	Up
ZNF286A	703.70 42367	363.0648069	1044.343667	2.8764 66258	1.524297 547	2.92 E-05	0.00 0744	Up
ZNF296	54.490 93198	28.74512027	80.2367437	2.7913 17029	1.480945 99	0.00 9609	0.07 1941	Up
ZNF32	431.03 80336	283.790952	578.2851152	2.0377 15125	1.026952 375	0.00 5503	0.04 7662	Up
ZNF346	265.83 73185	172.4698687	359.2047684	2.0827 1028	1.058462 164	0.00 584	0.04 9979	Up
ZNF362	957.84 65656	606.6020442	1309.091087	2.1580 7233	1.109743 219	0.00 165	0.01 9249	Up
ZNF367	198.93 9381	276.0231531	121.8556089	0.4414 68795	- 1.179616 628	0.00 3567	0.03 4503	Down
ZNF385D	231.60 82881	430.7798536	32.43672256	0.0752 97678	- 3.731250 82	0.00 0927	0.01 2497	Down
ZNF423	510.54 23366	767.7687626	253.3159105	0.3299 37766	- 1.599734 17	1.49 E-05	0.00 0413	Down
ZNF446	94.469 31035	62.27187433	126.6667464	2.0340 92401	1.024385 217	0.03 2194	0.16 9402	Up
ZNF469	361.88 10748	508.5713342	215.1908155	0.4231 28086	- 1.240833 643	0.04 2662	0.20 4198	Down
ZNF48	314.99 57936	199.8228046	430.1687826	2.1527 51202	1.106181 594	0.00 4892	0.04 3857	Up
ZNF683	85.362 05972	23.94132166	146.7827978	6.1309 39632	2.616108 199	6.37 E-07	2.70 E-05	Up
ZNF711	282.38	181.9673189	382.8068828	2.1037	1.072937	0.00	0.04	Up

	71008			12277	402	5551	7899	
ZNF750	471.96 62784	110.9605093	832.9720476	7.5069 23437	2.908221 769	3.84 E-13	6.16 E-11	Up
ZNF821	354.79 98807	205.0816464	504.5181149	2.4600 84184	1.298707 686	0.00 0682	0.00 9779	Up
ZNF84	526.45 02212	315.6995522	737.2008902	2.3351 34418	1.223505 599	0.00 0822	0.01 137	Up
ZNF853	166.34 19891	101.0871138	231.5968644	2.2910 62191	1.196016 621	0.00 4657	0.04 2231	Up
ZNF891	12.209 7846	3.781963513	20.63760568	5.4568 49494	2.448068 253	0.02 4906	0.14 1925	Up
ZBPB2	74.144 55097	31.88799555	116.4011064	3.6503 11171	1.868019 452	0.00 0388	0.00 6297	Up
ZSCAN12	216.48 61836	123.8200247	309.1523426	2.4967 87924	1.320073 285	0.00 115	0.01 4733	Up
ZSCAN23	55.252 44043	24.79096583	85.71391502	3.4574 6574	1.789714 956	0.00 1884	0.02 1376	Up
ZSWIM4	677.79 60653	425.5423475	930.0497831	2.1855 63408	1.128005 234	0.00 1859	0.02 1138	Up
ZSWIM5	102.92 49025	63.32076399	142.5290411	2.2509 05266	1.170505 339	0.01 3744	0.09 3175	Up
ZYX	11290. 68881	16357.57819	6223.799427	0.3804 84162	- 1.394091 694	0.04 7858	0.22 2045	Down

Table S7

id	description	Dbxref
ACOX3	acyl-CoA oxidase 3, pristanoyl	GeneID:510065
ACSBG1	acyl-CoA synthetase bubblegum family member 1	BGD:BT30385, GeneID:515577
ACSF2	acyl-CoA synthetase family member 2	BGD:BT26369, GeneID:768237
ACSL1	acyl-CoA synthetase long-chain family member 1	GeneID:537161
ACSL4		BGD:BT26375, GeneID:536628
ACSM1	acyl-CoA synthetase medium-chain family member 1	BGD:BT10990, GeneID:282576
ACSM3		BGD:BT30485, GeneID:533798
ADIPOQ		BGD:BT11980, GeneID:282865
AGMO	alkylglycerol monooxygenase	BGD:BT25389, GeneID:613658
ALDH2	aldehyde dehydrogenase 2 family (mitochondrial)	BGD:BT28617, GeneID:508629

APOA1	apolipoprotein A-I	BGD:BT22521, GeneID:281631
C1QTNF2		BGD:BT16754, GeneID:539842
C3	complement component 3	BGD:BT10361, GeneID:280677
CAV1	caveolin 1, caveolae protein, 22kDa	BGD:BT10178, GeneID:281040
CD36	CD36 molecule (thrombospondin receptor)	GeneID:518526
CPT1B	carnitine palmitoyltransferase 1B (muscle)	BGD:BT10800, GeneID:509459
CROT	carnitine O-octanoyltransferase	GeneID:281092
DGAT2	diacylglycerol O-acyltransferase 2	BGD:BT10217, GeneID:404129
ECHDC2	enoyl CoA hydratase domain containing 2	BGD:BT17041, GeneID:513795
ELOVL5	ELOVL fatty acid elongase 5	BGD:BT22270, GeneID:617293
ELOVL6	ELOVL fatty acid elongase 6	BGD:BT17431, GeneID:533333
FA2H	fatty acid 2-hydroxylase	BGD:BT15059, GeneID:516891
FABP4	fatty acid binding protein 4, adipocyte	BGD:BT10868, GeneID:281759
FADS1		BGD:BT12244, GeneID:533107
FAM132B		GeneID:101905782
FASN	fatty acid synthase	GeneID:281152
GPAM	glycerol-3-phosphate acyltransferase, mitochondrial	BGD:BT10533, GeneID:497202
INSIG1	insulin induced gene 1	BGD:BT10003, GeneID:511899
LIPE	lipase, hormone-sensitive	BGD:BT10797, GeneID:286879
LONP2	lon peptidase 2, peroxisomal	BGD:BT16284, GeneID:541085
LPIN1	lipin 1	GeneID:537224
LPL	lipoprotein lipase	BGD:BT11268, GeneID:280843
MECR	mitochondrial trans-2-enoyl-CoA reductase	BGD:BT28760, GeneID:353301
MID1IP1	MID1 interacting protein 1 (gastrulation specific G12 homolog (zebrafish))	BGD:BT26918, GeneID:615572
PDK3	pyruvate dehydrogenase kinase, isozyme 3	BGD:BT18648, GeneID:510841
PID1	phosphotyrosine interaction domain containing 1	BGD:BT29169, GeneID:510773
PLA2G15	phospholipase A2, group XV	BGD:BT10554, GeneID:282271
PPARGC1A	peroxisome proliferator-activated receptor gamma, coactivator 1 alpha	BGD:BT11222, GeneID:338446
PTGDS	prostaglandin D2 synthase 21kDa (brain)	BGD:BT10325, GeneID:286858
QKI	QKI, KH domain containing, RNA binding	GeneID:493722
SCD	stearoyl-CoA desaturase (delta-9-desaturase)	GeneID:280924
SLC27A1	solute carrier family 27 (fatty acid transporter), member 1	BGD:BT10588, GeneID:513787
SLC27A5	solute carrier family 27 (fatty acid transporter), member 5	BGD:BT27852, GeneID:533016
SLC27A6	solute carrier family 27 (fatty acid transporter), member 6	BGD:BT26280, GeneID:537062
TECR	trans-2,3-enoyl-CoA reductase	BGD:BT18971, GeneID:614105
THEM4	thioesterase superfamily member 4	GeneID:787270

TNXB		GeneID:282654
TWIST1	twist homolog 1 (Drosophila)	GeneID:782170

Table S8

miRNA_id	type	gene	type
AC_000168.1_13098	miRNA	DGAT2	gene
AC_000178.1_22528	miRNA	C3	gene
AC_000178.1_22528	miRNA	TNXB	gene
bta-miR-1247-3p	miRNA	FAM132B	gene
bta-miR-1247-3p	miRNA	PLA2G15	gene
bta-miR-133b	miRNA	LIPE	gene
bta-miR-1388-5p	miRNA	ACSBG1	gene
bta-miR-2474	miRNA	PPARGC1A	gene
bta-miR-365-5p	miRNA	TECR	gene
bta-miR-378	miRNA	FADS1	gene
bta-miR-6518	miRNA	AGMO	gene
bta-miR-6518	miRNA	GPAM	gene
bta-miR-218	miRNA	ELOVL5	gene
bta-miR-7860	miRNA	PTGDS	gene
SCD	gene	FASN	gene
LPIN1	gene	DGAT2	gene
CPT1B	gene	ACSL1	gene
FASN	gene	ACSL1	gene
CPT1B	gene	ACSL4	gene
CPT1B	gene	ACSBG1	gene
LPL	gene	LPIN1	gene
FASN	gene	ACSL4	gene
FASN	gene	ACSBG1	gene
LPL	gene	APOA1	gene
LPL	gene	ACSL1	gene
LPL	gene	ADIPOQ	gene
ACSL4	gene	ACSL1	gene
ACSL1	gene	ACOX3	gene
ACSL4	gene	ACSBG1	gene
ACSL1	gene	ACSBG1	gene
MECR	gene	ACOX3	gene
LPL	gene	ACSL4	gene
LPL	gene	ACSBG1	gene
ACSL4	gene	ACOX3	gene
ACSBG1	gene	ACOX3	gene
LPL	gene	LIPE	gene
ECHDC2	gene	ACOX3	gene

FABP4	gene	ADIPOQ	gene
LPL	gene	FASN	gene
ACSF2	gene	ACOX3	gene
FASN	gene	DGAT2	gene
ALDH2	gene	ACSM1	gene
SCD	gene	ACSL1	gene
PPARGC1A	gene	LPL	gene
ALDH2	gene	ACSM3	gene
LPL	gene	FABP4	gene
SCD	gene	ELOVL6	gene
SCD	gene	FADS1	gene
SLC27A1	gene	DGAT2	gene
ECHDC2	gene	ACSF2	gene
FA2H	gene	AGMO	gene
FASN	gene	ADIPOQ	gene
ALDH2	gene	ACOX3	gene
SLC27A6	gene	LPIN1	gene
CD36	gene	CAV1	gene
SLC27A1	gene	FASN	gene
PPARGC1A	gene	CPT1B	gene
LIPE	gene	ADIPOQ	gene
LIPE	gene	FABP4	gene
PDK3	gene	ECHDC2	gene
ECHDC2	gene	ACSM3	gene
ECHDC2	gene	ACSM1	gene
SCD	gene	ELOVL5	gene
LIPE	gene	FASN	gene
ECHDC2	gene	ALDH2	gene
SLC27A6	gene	ACSL1	gene
LPL	gene	ACOX3	gene
SLC27A1	gene	ACSL1	gene
SCD	gene	LPL	gene
PLA2G15	gene	DGAT2	gene
FASN	gene	FABP4	gene
ECHDC2	gene	ACSL4	gene
FASN	gene	ELOVL6	gene
SCD	gene	DGAT2	gene
MECR	gene	ALDH2	gene
ACSM1	gene	ACOX3	gene
FASN	gene	CAV1	gene
ACSM3	gene	ACOX3	gene
LPL	gene	CPT1B	gene
FASN	gene	ACSF2	gene

SCD	gene	ACSL4	gene
PPARGC1A	gene	APOA1	gene
ALDH2	gene	ACSF2	gene
SCD	gene	FABP4	gene
PPARGC1A	gene	FABP4	gene
LPIN1	gene	ACSL1	gene
ECHDC2	gene	ACSL1	gene
ECHDC2	gene	ACSBG1	gene
LPL	gene	CD36	gene
SCD	gene	FA2H	gene
SCD	gene	LIPE	gene
FADS1	gene	ELOVL5	gene
LIPE	gene	ACSF2	gene
DGAT2	gene	ACSL1	gene
SCD	gene	ADIPOQ	gene
MECR	gene	ECHDC2	gene
GPAM	gene	FASN	gene
APOA1	gene	ACOX3	gene
LIPE	gene	DGAT2	gene
PPARGC1A	gene	ADIPOQ	gene
TECR	gene	ELOVL5	gene
PPARGC1A	gene	FASN	gene
SLC27A5	gene	FASN	gene
LIPE	gene	ACSL1	gene
SLC27A1	gene	LPL	gene
LPL	gene	DGAT2	gene
SLC27A5	gene	DGAT2	gene
CD36	gene	ADIPOQ	gene
LONP2	gene	ACOX3	gene
SLC27A6	gene	DGAT2	gene
CPT1B	gene	ACOX3	gene
GPAM	gene	DGAT2	gene
FADS1	gene	ACSM3	gene
TECR	gene	ELOVL6	gene
PPARGC1A	gene	ACOX3	gene
APOA1	gene	CPT1B	gene
INSIG1	gene	FASN	gene
SCD	gene	INSIG1	gene
SCD	gene	ACSBG1	gene
SLC27A1	gene	LIPE	gene
LONP2	gene	CROT	gene
ALDH2	gene	ACSL4	gene
ALDH2	gene	ACSL1	gene

FASN	gene	CD36	gene
SLC27A1	gene	CD36	gene
FADS1	gene	ACSL1	gene
APOA1	gene	CD36	gene
FABP4	gene	ACSL1	gene
DGAT2	gene	ADIPOQ	gene
SCD	gene	PPARGC1A	gene
ALDH2	gene	ACSBG1	gene
SLC27A6	gene	FASN	gene
GPAM	gene	CPT1B	gene
LIPE	gene	CD36	gene
GPAM	gene	ELOVL6	gene
SLC27A5	gene	ACSL4	gene
PPARGC1A	gene	ACSL1	gene
FABP4	gene	DGAT2	gene
PLA2G15	gene	LPIN1	gene
APOA1	gene	C3	gene
ECHDC2	gene	CPT1B	gene
TECR	gene	SCD	gene
APOA1	gene	FASN	gene
APOA1	gene	ADIPOQ	gene
SLC27A5	gene	ACSL1	gene
TECR	gene	FA2H	gene
APOA1	gene	FABP4	gene
FABP4	gene	CD36	gene
LPIN1	gene	FABP4	gene
INSIG1	gene	FADS1	gene
ELOVL5	gene	ACSM3	gene
ELOVL6	gene	DGAT2	gene
LIPE	gene	CPT1B	gene
FADS1	gene	ACSL4	gene
SLC27A1	gene	ADIPOQ	gene
SCD	gene	CD36	gene
PPARGC1A	gene	LIPE	gene
FABP4	gene	ACOX3	gene
PPARGC1A	gene	LPIN1	gene
ELOVL6	gene	ACSL1	gene
DGAT2	gene	ACSL4	gene
ACSM3	gene	ACSL4	gene
ACSM3	gene	ACSBG1	gene
FASN	gene	ACOX3	gene
SLC27A1	gene	ACSL4	gene
LIPE	gene	ACOX3	gene

APOA1	gene	CAV1	gene
FASN	gene	CPT1B	gene
SCD	gene	GPAM	gene
GPAM	gene	ACSL1	gene
MID1IP1	gene	INSIG1	gene
LPIN1	gene	FASN	gene
LIPE	gene	ACSL4	gene
LPIN1	gene	INSIG1	gene
CAV1	gene	ADIPOQ	gene
SLC27A1	gene	SCD	gene
FABP4	gene	CPT1B	gene
FASN	gene	FADS1	gene
FADS1	gene	ACSBG1	gene
PDK3	gene	ALDH2	gene
SCD	gene	ACOX3	gene
LIPE	gene	ACSBG1	gene
FA2H	gene	ACSL1	gene
SLC27A1	gene	ACSF2	gene
APOA1	gene	LIPE	gene
TNXB	gene	ACSL1	gene
SLC27A6	gene	ACSF2	gene
SLC27A5	gene	ACSF2	gene
SCD	gene	CPT1B	gene
FADS1	gene	ELOVL6	gene
SLC27A1	gene	FABP4	gene
MECR	gene	ACSF2	gene
SCD	gene	LPIN1	gene
ELOVL6	gene	ELOVL5	gene
GPAM	gene	ACSL4	gene
CPT1B	gene	ACSM3	gene
CPT1B	gene	ACSM1	gene
LIPE	gene	CAV1	gene
CROT	gene	ACOX3	gene
ELOVL5	gene	DGAT2	gene
LPL	gene	CAV1	gene
DGAT2	gene	ACSM3	gene
ACSL4	gene	ACSF2	gene
TNXB	gene	ACSL4	gene
FASN	gene	ELOVL5	gene
DGAT2	gene	CD36	gene
SCD	gene	APOA1	gene
PLA2G15	gene	ACSL4	gene
PLA2G15	gene	ACSL1	gene

PLA2G15	gene	ACSBG1	gene
FADS1	gene	ACSM1	gene
PLA2G15	gene	ACSM1	gene
FA2H	gene	ACSL4	gene
FA2H	gene	ACSBG1	gene
TNXB	gene	ACSBG1	gene
PPARGC1A	gene	ECHDC2	gene
MID1IP1	gene	FASN	gene
PPARGC1A	gene	DGAT2	gene
LPIN1	gene	GPAM	gene
SLC27A1	gene	ACSBG1	gene
DGAT2	gene	CPT1B	gene
FADS1	gene	ACSF2	gene
SLC27A6	gene	ACSL4	gene
CD36	gene	ACSL1	gene
SLC27A1	gene	PPARGC1A	gene
PLA2G15	gene	ACSM3	gene
LPL	gene	INSIG1	gene
APOA1	gene	ECHDC2	gene
SLC27A1	gene	GPAM	gene
INSIG1	gene	ACSL1	gene
PPARGC1A	gene	ELOVL6	gene
LPL	gene	FADS1	gene
SLC27A1	gene	CAV1	gene
SLC27A1	gene	ACOX3	gene
LIPE	gene	GPAM	gene
ACSL1	gene	ACSF2	gene
ACSF2	gene	ACSBG1	gene
FABP4	gene	ECHDC2	gene
FABP4	gene	ELOVL6	gene
PPARGC1A	gene	CD36	gene
DGAT2	gene	ACOX3	gene
SLC27A6	gene	FABP4	gene
ADIPOQ	gene	ACSL1	gene
SLC27A1	gene	CPT1B	gene
LPIN1	gene	ELOVL6	gene
GPAM	gene	FABP4	gene
LPIN1	gene	FADS1	gene
INSIG1	gene	DGAT2	gene
FADS1	gene	DGAT2	gene
PLA2G15	gene	MECR	gene
INSIG1	gene	ELOVL6	gene
GPAM	gene	FADS1	gene

PLA2G15	gene	LPL	gene
GPAM	gene	ADIPOQ	gene
ELOVL6	gene	ACOX3	gene
ACSM1	gene	ACSL1	gene
MID1IP1	gene	ELOVL6	gene
ACSM3	gene	ACSF2	gene
LONP2	gene	ACSL4	gene
INSIG1	gene	FABP4	gene
CPT1B	gene	ADIPOQ	gene
GPAM	gene	ACOX3	gene
CROT	gene	CPT1B	gene
LPL	gene	GPAM	gene
LONP2	gene	ACSF2	gene
PDK3	gene	DGAT2	gene
PLA2G15	gene	APOA1	gene
ADIPOQ	gene	ACOX3	gene
TNXB	gene	ACSM3	gene
ACSM1	gene	ACSF2	gene
SLC27A5	gene	ACOX3	gene
SLC27A6	gene	ACSBG1	gene
SLC27A5	gene	ACSBG1	gene
FADS1	gene	AGMO	gene
LIPE	gene	ECHDC2	gene
ELOVL6	gene	ADIPOQ	gene
PDK3	gene	LIPE	gene
GPAM	gene	ECHDC2	gene
SLC27A1	gene	ELOVL5	gene
TECR	gene	MECR	gene
PDK3	gene	CPT1B	gene
SLC27A6	gene	SCD	gene
LONP2	gene	ACSM3	gene
LONP2	gene	ACSM1	gene
SLC27A6	gene	LPL	gene
LPL	gene	C3	gene
ELOVL5	gene	ACSL1	gene
MECR	gene	FASN	gene
PPARGC1A	gene	FADS1	gene
ACSM3	gene	ACSL1	gene
FA2H	gene	ELOVL6	gene
SLC27A5	gene	LPIN1	gene
PDK3	gene	ACSF2	gene
SLC27A5	gene	SLC27A1	gene
APOA1	gene	DGAT2	gene

SLC27A1	gene	LPIN1	gene
ELOVL6	gene	ACSM3	gene
SCD	gene	ACSF2	gene
PDK3	gene	ACSL4	gene
PDK3	gene	ACSL1	gene
SLC27A6	gene	INSIG1	gene
PDK3	gene	ACSM3	gene
PDK3	gene	ACSM1	gene
PDK3	gene	ACSBG1	gene
C3	gene	ADIPOQ	gene
FADS1	gene	FA2H	gene
LPL	gene	ELOVL6	gene
SLC27A5	gene	SCD	gene
SLC27A5	gene	LPL	gene
SLC27A6	gene	ACSM3	gene
MECR	gene	ACSM3	gene
MECR	gene	ACSM1	gene
PDK3	gene	FA2H	gene
LONP2	gene	ECHDC2	gene
FABP4	gene	ACSL4	gene
SLC27A6	gene	ELOVL5	gene
SLC27A6	gene	ACSM1	gene
TECR	gene	ACSL4	gene
TECR	gene	ACSL1	gene
TECR	gene	ACSBG1	gene
LIPE	gene	ALDH2	gene
LPIN1	gene	CD36	gene
INSIG1	gene	CD36	gene
CPT1B	gene	ALDH2	gene
SLC27A5	gene	FABP4	gene
SLC27A5	gene	ELOVL5	gene
PTGDS	gene	FADS1	gene
PPARGC1A	gene	INSIG1	gene
MID1IP1	gene	DGAT2	gene
GPAM	gene	CD36	gene
SCD	gene	CAV1	gene
PDK3	gene	LONP2	gene
LPIN1	gene	ELOVL5	gene
FA2H	gene	CPT1B	gene
LIPE	gene	ACSM1	gene
SLC27A6	gene	SLC27A1	gene
SCD	gene	ACSM3	gene
FASN	gene	ACSM3	gene

FABP4	gene	ELOVL5	gene
LPL	gene	ELOVL5	gene
FASN	gene	CROT	gene
SCD	gene	MID1IP1	gene
ELOVL6	gene	ACSL4	gene
ELOVL5	gene	ACSL4	gene
LPIN1	gene	ADIPOQ	gene
GPAM	gene	ACSF2	gene
ACSM1	gene	ACSL4	gene
ACSM1	gene	ACSBG1	gene
TNXB	gene	CAV1	gene
PTGDS	gene	APOA1	gene
FASN	gene	ACSM1	gene

Table S9

Name	Mature sequence	Mature sequence	sense (5'-3')	antisense (5'-3')
>bta-miR-218 MIMAT0003798	uugugcuugau cuaaccaugug	SiRNA - ELOV L5	GCAGUAGUGUCGAAU CAUATT	UAUGUCUA CAACACUUU GCTT

Table S10

Name	Sequence
circRNA_015 92 Chr11:505 26026_50533 893_+	tGCAACAGAATGGAATTCGGCATTGCTCTTATACAACTTCC AGGAAGCATCTCTATGTTGATAGAAATACGAAGATTATTT GCCAGGGTTTCACTGGTAAGCAGGGCACCTTTCATAGCC AGCAGGCACTGGAATATGGCACCAAAGTGTGGAGGAA CCACTCCAGGGAAAGGAGGCAAGACGCACCTGGGCTTA CCAGTCTTTAACTGTGAAGGAGGCCAAAGAACAGACT GGGGCGACAGCATCTGTCATTTATGTCCCTcctccctttgctgc tgctgccattgATGAAGCTATCGAGGCGGAAGTGTCCCTGGTGC TGTGCATCACCGAAGGTATCCCGCAGCAGGACATGGTGC GGGTCAAGCACAACTGCTGCGACAGGGAAAGACCAGG CTGGTCGGGCCGAAGTCCCTGGAGTCATCAATCCTGGA GAATGCAAATTTGGCATCATGCCTGGCCATATTCACAAGA AAGGAAGAGTCG