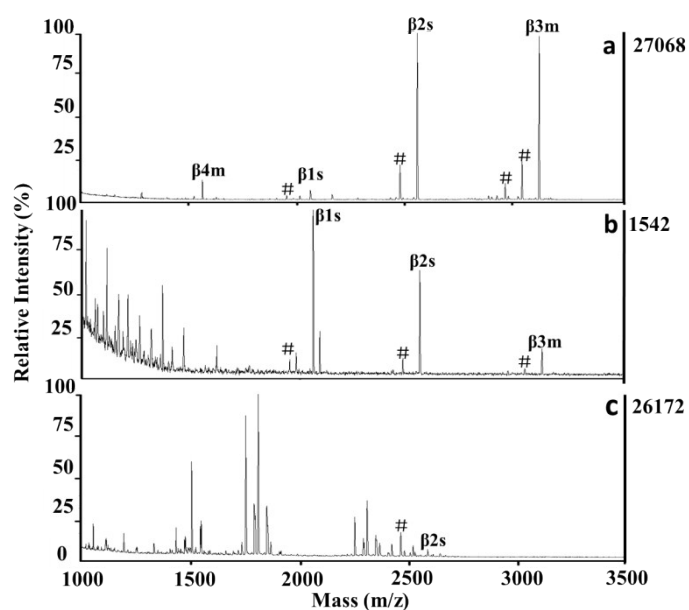


## Supplementary Information

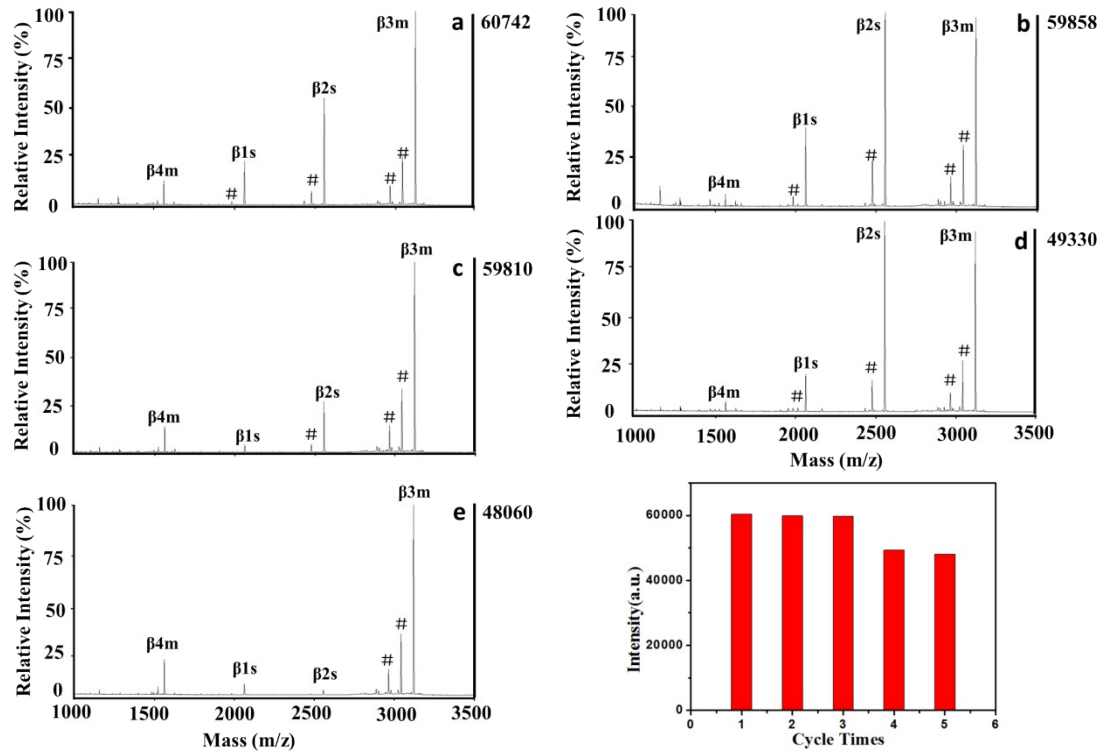
### PAMA-Arg Brushes Functionalized Magnetic Composite Nanospheres for Highly Effective Enrichment of the Phosphorylated Biomolecules

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**Fig. S1** MALDI-TOF mass spectra of the tryptic digest mixture of  $\beta$ -casein and BSA (molar ratio 1:10) after enrichment with (a) the  $\text{Fe}_3\text{O}_4$ /PDA/PAMA-Arg nanospheres, (b)  $\text{Fe}_3\text{O}_4$ /PEI/Arg nanospheres, and (c) the commercial  $\text{TiO}_2$  microspheres, respectively. (s, monophosphopeptide; m, multiphosphopeptide; #, dephosphorylated peptide).



**Fig. S2** MALDI mass spectra of  $\beta$ -casein digest ( $10^{-6}$  M) after enrichment with the  $\text{Fe}_3\text{O}_4$ @PDA@PAMA-Arg nanospheres in 50% ACN, 0.1 M HAC. Cycling 1st (a), cycling 2nd (b), cycling 3rd (c), cycling 4th (d), and cycling 5th (e). (s, monophosphopeptide; m, multiposphopeptide; #, dephosphorylated peptide).

**Table S1.** List of phosphopeptides from tryptic digests of proteins extracted from non-fat milk after enrichment by  $\text{Fe}_3\text{O}_4$ @PDA@PAMA-Arg nanospheres in MALDI-TOF MS analysis. S: phosphorylated site.

No.	Observed m/z	Theoretical m/z	Number of phosphoryl groups	Peptide sequence	Reported reference
1	1159.8	1162.5	1	RINKKIEKFQSEEQQTEDELQDKIHPPAQTQS	3
2	1281.6	1281.1	1	KKIEKFQSEEQQTEDELQDKIHPPAQTQS	3
3	1495.2	1495.0	2	RFFVAPFPEVFGKEKVNELS KDIGSESTEDQAMEDIKQME	3
4	1561.8	1562.0	4	RELEELNVPGEIVESLSSSEESITRI	3
5	1660.2	1660.8	1	VPQLEIVPNSAEER	1 2 3 4 5
6	1951.8	1951.9	1	YKVPQLEIVPNSAEER	1
7	2061.7	2061.8	1	FQSEEQQTEDELQDK	1 2 3 4 5
8	2556.8	2556.2	1	FQSEEQQTEDELQDKIHPP	1 2 3 4 5
9	2703.7	2703.5	5	QMEAESLSSSEIIVPNSVEAQ	1 4
10	2935.0	2935.2	3	EKVNELSKDIGSESTEDQAMEDIK	2 4 5
11	2964.7	2965.8	4	ELEELNVPGEIVESLSSSEESITR	1
12	3008.8	3008.0	4	NANEEEYSIGSSSEESAEVATEEVK	1 2 3 5
13	3121.7	3122.3	4	RELEELNVPGEIVESLSSSEESITR	1 2 3 4 5
14	3180.1	3180.7	4	RELEELNVPGEIVESLSSSEESIT	2

**Table S2.** Detailed information of the observed phosphopeptides obtained from tryptic digests of rat brain lysate.

Master Protein Accessions	Phospho (STY) Probabilities	Theoretical m/z
A0A096MIT7_RAT	LS(1)PQGQQVSPQSGSPQQQR	2133.0563
A0A096MJN4_RAT	IY(0.004)QFPDCDS(0.996)DEDEDFKLQDQALK	2818.228
A0A096MJN4_RAT	LDPY(0.041)DS(0.732)S(0.228)EDDK	1282.5201
A0A096MJN4_RAT	LDPY(0.48)DS(0.523)S(0.523)EDDKEY(0.473)VGFATLPNQVHR	2894.3359
A0A096MJX5_RAT	VGDTEKPEPERS(1)PPNR	1806.886
A0A096MKC0_RAT	WRPHS(1)PDGPR	1203.5897
A0A0A0MP77_RAT	RS(0.201)S(0.799)FLNAK	921.50321
A0A0A0MXW9_RAT	DVYLS(1)PR	848.43922
A0A0A0MY13_RAT	T(0.005)EVC PWES(0.227)HGQS(0.769)PLEDENR	2268.9706
A0A0G2JSH4_RAT	IQAAAS(1)PPANATAASDTNAGDR	2068.9774
A0A0G2JSU4_RAT	T(0.004)AS(0.996)LTSAASIDGSR	1335.663
A0A0G2JSU4_RAT	T(0.838)AS(0.162)LTSAASIDGSR	1335.663
A0A0G2JT93_RAT	RT(0.024)S(0.975)MGGTQQQFVEGVR	1779.8686
A0A0G2JTF2_RAT	LPS(1)PTPENK	981.51311
A0A0G2JT17_RAT	GDDDEES(1)DEEAVKK	1564.6377
A0A0G2JTL7_RAT	GVAPADS(1)PDAPR	1151.5571
A0A0G2JTW5_RAT	T(0.095)PDAS(0.905)PEPK	940.45018
A0A0G2JU89_RAT	ELAS(1)PVSPELR	1196.6401
A0A0G2JU89_RAT	HVTLPS(0.041)S(0.959)PR	992.54033
A0A0G2JUG7_RAT	LQHS(0.004)T(0.058)S(0.938)VLR	1039.5774
A0A0G2JV78_RAT	ENADDS(1)DAETQDHSR	1688.651
A0A0G2JVM6_RAT	QAAQAT(0.871)GS(0.874)PHT(0.237)S(0.016)PT(0.003)HGGGR	1816.8565
A0A0G2JVM6_RAT	QAAQAT(0.871)GS(0.874)PHT(0.237)S(0.016)PT(0.003)HGGGR	1816.8565
A0A0G2JVV5_RAT	VNQPNANDKNS(1)PPK	1649.8121
A0A0G2JVW5_RAT	GS(0.027)GT(0.946)AS(0.027)DDEFENLR	1496.6379
A0A0G2JW28_RAT	SSDTSQAVIT(0.5)T(0.5)PPPPSMPHK	2077.015
A0A0G2JW28_RAT	SSDTSQAVIT(0.5)T(0.5)PPPPSMPHK	2077.015
A0A0G2JW65_RAT	FS(0.165)S(0.835)PPPLAVSR	1156.6241
A0A0G2JW80_RAT	EGS(1)QGELTPANSQSR	1559.7176
A0A0G2JW85_RAT	YGS(1)QEHPIGDK	1229.5677
A0A0G2JW88_RAT	ELPPS(1)PEKK	1023.5601
A0A0G2JW88_RAT	ES(0.191)EGS(0.767)PDT(0.042)DAAPGPDVDVTLTK	2201.9812
A0A0G2JW88_RAT	AAVGLTGNDIAT(1)PPNK	1537.81
A0A0G2JW92_RAT	VAILT(1)DDEEEQKR	1544.7682
A0A0G2JWE3_RAT	EDSEVQNES(1)DGHADR	1686.6717
A0A0G2JWE3_RAT	GLHS(0.001)S(0.033)DS(0.966)EEEEPKR	1598.7172
A0A0G2JWE3_RAT	QKIDS(1)DDDGEKEGDEK	1806.7755
A0A0G2JWK2_RAT	AETSESSGSAPAVPEAS(0.161)AS(0.839)PK	1958.9069
A0A0G2JWK2_RAT	EHHHHHHHAES(1)PK	1618.725
A0A0G2JWM2_RAT	EHANIDAQSGSQASNPS(0.005)AT(0.03)VS(0.965)PR	2323.0789

A0A0G2JWP1_RAT	GQGT(0.233)LQHS(0.767)PVGPA PASIER	1957.997
A0A0G2JX65_RAT	SFT(1)RAS(1)T(1)LR	1037.5618
A0A0G2JX65_RAT	SFT(1)RAS(1)T(1)LR	1037.5618
A0A0G2JX65_RAT	SFT(1)RAS(1)T(1)LR	1037.5618
A0A0G2JX77_RAT	AGNES(1)PVQELR	1198.5942
A0A0G2JX77_RAT	VS(0.846)PS(0.146)PS(0.007)QESLSSSK	1418.6889
A0A0G2JXZ3_RAT	Y(0.013)VES(0.986)DDEKPT(0.001)DENVNEK	2009.8702
A0A0G2JYC7_RAT	VPSAS(0.02)DS(0.905)DS(0.074)R	1019.452
A0A0G2JYN0_RAT	VHGH(1)DEEEEEEQPR	1805.7452
A0A0G2JYR4_RAT	VEGIEGS(1)PAEEAR	1342.6365
A0A0G2JZ27_RAT	LPDEEPS(1)PK	1010.492
A0A0G2JZ27_RAT	S(0.003)IQT(0.175)S(0.775)PT(0.047)EEDR	1261.5786
A0A0G2JZ56_RAT	AS(1)PCLDR	817.37524
A0A0G2JZ56_RAT	KT(0.134)S(0.866)LVIVESTDDQPQVFEK	2162.1107
A0A0G2JZ88_RAT	RDES(1)DEEPPRVER	1612.7441
A0A0G2JZB4_RAT	DGLAPEKT(0.144)S(0.856)PDREK	1541.7686
A0A0G2JZB4_RAT	DGLAPEKT(0.828)S(0.172)PDREK	1541.7686
A0A0G2JZF2_RAT	IGFPS(0.001)T(0.016)S(0.983)PAK	1003.5338
A0A0G2JZF2_RAT	VLLLEANRHS(1)PGPER	1686.9166
A0A0G2JZK7_RAT	GIS(1)ALLNQGDGDRK	1555.8318
A0A0G2JZR0_RAT	LRPVS(1)PEEIR	1194.6721
A0A0G2JZX5_RAT	AQNPAYFEGKPAS(1)LDEGAMAGAR	2350.1012
A0A0G2K079_RAT	RQS(1)LGGFLK	1004.5767
A0A0G2K0E5_RAT	FYGGGGGGGS(1)PGK	1096.4938
A0A0G2K0M8_RAT	AAFS(0.987)KDES(0.013)KEPIVEVR	1803.9367
A0A0G2K0M8_RAT	DES(1)KEPIVEVR	1299.667
A0A0G2K0M8_RAT	GVTAS(0.001)S(0.003)S(0.199)S(0.687)PPAS(0.11)VPK	1370.7042
A0A0G2K0M8_RAT	NPTEAATAPAS(1)PK	1253.6252
A0A0G2K0S7_RAT	KQELANS(0.02)S(0.059)DVT(0.263)LPDRPLS(0.65)PPLT(0.008)APPTMK	3002.5747
A0A0G2K0X9_RAT	VAQS(0.012)DGEES(0.988)PAEEGQLLGER	2099.9607
A0A0G2K104_RAT	RLDEQPPTLS(1)PK	1508.7835
A0A0G2K1J5_RAT	AQLEPVAS(1)PAK	1109.6081
A0A0G2K1J5_RAT	NDESQLS(0.999)PAT(0.001)R	1216.5684
A0A0G2K1L8_RAT	ET(0.01)PAAS(0.971)EAPS(0.013)S(0.005)AAK	1315.6256
A0A0G2K1P1_RAT	S(0.454)PS(0.546)GGEHAPSEDSGK	1440.6117
A0A0G2K1Q9_RAT	LST(0.005)S(0.995)PVR	758.42865
A0A0G2K1Q9_RAT	QLEYQQFEDDKLS(1)QK	1897.9058
A0A0G2K1Q9_RAT	KAEEAT(1)PVAALR	1254.6932
A0A0G2K1Q9_RAT	VISQTNLIT(0.008)T(0.038)VT(0.954)PEKK	1771.0091
A0A0G2K285_RAT	APSQA AES(0.029)S(0.867)PT(0.105)K	1172.5673
A0A0G2K2M8_RAT	SADVS(0.995)PT(0.004)T(0.001)EGVK	1189.5826
A0A0G2K2M9_RAT	DKFS(0.948)PT(0.022)QDRPES(0.01)S(0.01)T(0.01)VLK	1933.9745
A0A0G2K2M9_RAT	ELS(0.011)HS(0.989)PPR	921.46683

A0A0G2K2M9_RAT	RQPS(0.992)PQPS(0.008)PR	1148.6051
A0A0G2K2M9_RAT	VPS(0.999)PT(0.001)PVPK	920.53312
A0A0G2K2M9_RAT	S(0.999)PVPS(0.001)AFSDQSR	1276.6048
A0A0G2K2T6_RAT	RPMEEDGEKES(1)PSK	1617.7305
A0A0G2K376_RAT	DHS(0.095)PT(0.855)PS(0.018)VFNS(0.031)DEER	1715.7387
A0A0G2K382_RAT	LDS(0.433)S(0.567)PVLSPGNK	1212.635
A0A0G2K3F4_RAT	AS(1)PEAEEAAR	1029.4727
A0A0G2K3N1_RAT	ADAPDAGAS(0.822)DS(0.178)ELPSYHQNDVSLDR	2757.2114
A0A0G2K3S6_RAT	LAS(0.035)DDRPS(0.965)PPR	1209.6102
A0A0G2K451_RAT	QDEMD(1)DDDLDDKPSPIK	2190.9111
A0A0G2K4J8_RAT	DHLS(0.642)PDFY(0.096)DES(0.131)ET(0.131)DPGAEELPAR	2589.1143
A0A0G2K4U8_RAT	AGS(0.085)RLS(0.915)AEDR	1060.5261
A0A0G2K508_RAT	FQEQC(1)PEPTR	1700.7464
A0A0G2K5A4_RAT	VFKEEGS(1)PDR	1162.5619
A0A0G2K5C0_RAT	KFS(1)PSQVPVQTR	1372.7463
A0A0G2K5E7_RAT	AKPAMPQDS(0.002)VPS(0.998)PR	1479.7504
A0A0G2K5Q0_RAT	HPPVLT(1)PPDQEVIR	1596.8624
A0A0G2K5T1_RAT	APVHFVEPLS(0.994)PT(0.006)GVPGHR	1896.0006
A0A0G2K5V4_RAT	LQNIADAS(1)PEKR	1340.7048
A0A0G2K611_RAT	DVEMGNS(1)VIEENEMK	1722.7441
A0A0G2K613_RAT	GDVTAEEAAGAS(1)PAK	1372.647
A0A0G2K613_RAT	AAAT(1)PESQEPQAK	1326.6416
A0A0G2K613_RAT	GEVAPKET(1)PKK	1182.6608
A0A0G2K654_RAT	S(0.841)ET(0.159)APAAPAAAPPAEK	1477.7413
A0A0G2K670_RAT	MYPES(0.003)T(0.012)T(0.058)GS(0.927)PAR	1295.5816
A0A0G2K613_RAT	DMLAS(1)DEEEEPSKVEK	1834.8142
A0A0G2K615_RAT	GFS(1)EEQLR	964.46141
A0A0G2K6Q5_RAT	EEQT(0.009)DT(0.02)S(0.95)DGES(0.02)VT(0.001)HHIR	1939.8508
A0A0G2K700_RAT	KRDS(0.064)DS(0.936)DADEAT(0.91)PT(0.05)T(0.031)T(0.008)PR	1961.8926
A0A0G2K700_RAT	KRDS(0.064)DS(0.936)DADEAT(0.91)PT(0.05)T(0.031)T(0.008)PR	1961.8926
A0A0G2K774_RAT	EGS(1)PLKEESLAR	1314.6779
A0A0G2K7H2_RAT	APSPVVS(0.996)PT(0.004)ELSK	1310.7082
A0A0G2K7H2_RAT	QSNVEDS(1)PEK	1131.5044
A0A0G2K7T5_RAT	GFS(1)PPHR	796.39802
A0A0G2K7X3_RAT	ATVTPS(1)PVK	898.51238
A0A0G2K7X3_RAT	EEDEEAES(1)PPEKK	1515.6577
A0A0G2K7X3_RAT	EKT(1)PS(1)PKEEDEEAESPPEK	2154.9805
A0A0G2K7X3_RAT	TSAS(1)PPLEK	928.48656
A0A0G2K7X3_RAT	NSQEDS(1)EDS(1)EEKDVK	1737.7177
A0A0G2K7X3_RAT	NSQEDS(1)EDS(1)EEKDVK	1737.7177
A0A0G2K7X3_RAT	EKT(1)PS(1)PKEEDEEAESPPEK	2154.9805
A0A0G2K808_RAT	LLHEDLDES(1)DDDVDEK	1885.8065
A0A0G2K847_RAT	LDPPPS(1)PHANR	1199.6047

A0A0G2K8Y5_RAT	EMGT(1)PLADTPTRPVTR	1740.8829
A0A0G2K904_RAT	DGQDAIAQS(1)PEK	1257.5837
A0A0G2K9A9_RAT	RHS(0.905)T(0.094)EGEEGDVVS(0.001)DVGSR	1815.7983
A0A0G2K9C8_RAT	QS(0.107)S(0.785)T(0.107)ADAPELR	1173.5626
A0A0G2K9J0_RAT	EY(0.023)PS(0.97)PPPS(0.008)PLR	1238.6295
A0A0G2K9J0_RAT	FS(1)PPVVGQGGK	1069.5556
A0A0G2K9J0_RAT	IPESELGS(0.992)PT(0.008)LTSAQK	1656.857
A0A0G2K9L2_RAT	AAET(0.004)VPDLPS(0.821)PPT(0.175)EAPAPASNTSNR	2489.2034
A0A0G2K9Q6_RAT	S(0.113)GS(0.887)FQGA VR	907.45118
A0A0G2K9S4_RAT	AIS(1)PTSATSSGR	1133.5677
A0A0G2KA27_RAT	KRS(0.988)PT(0.011)ENVNT(0.001)PVGK	1525.8213
A0A0G2KA95_RAT	SLES(1)DNEEK	1049.4513
A0A0G2KAH9_RAT	RDS(1)VLAASR	973.53049
A0A0G2KAJ5_RAT	LSGS(1)PEHFQK	1128.5564
A0A0G2KAL4_RAT	RDS(0.997)ET(0.003)EVEELR	1361.6423
A0A0G2KAL4_RAT	VVSS(0.002)T(0.213)S(0.785)EEEEAFTEK	1670.7523
A0A0G2KAL9_RAT	NDSIVT(0.02)PS(0.98)PPQAR	1380.6997
A0A0G2KAT5_RAT	LQPQEIS(0.999)PPPT(0.001)ANLDR	1774.9214
A0A0G2KAV8_RAT	LQTHDES(0.009)S(0.009)LPLQPS(0.982)PFMPR	2276.126
A0A0G2KAV8_RAT	MERPS(0.002)IS(0.006)VIS(0.896)PT(0.076)S(0.02)PGALK	1869.003
A0A0G2KAV8_RAT	VS(1)PPESPR	867.44503
A0A0G2KAV8_RAT	VS(0.104)PPES(0.896)PR	867.44503
A0A0G2KAV8_RAT	QGS(0.339)PT(0.641)QS(0.02)PPADTSFGSR	1718.786
A0A0G2KBA8_RAT	AHS(0.973)PAEGAS(0.008)T(0.011)DS(0.003)S(0.003)S(0.001)PGPK	1681.7544
A0A0G2QC53_RAT	GIDPPQVLS(1)PDMVPPSER	1932.9615
A0A0G2QC53_RAT	TVFAGAVPVL PAS(1)PPPK	1646.9396
A0A0H2UHA0_RAT	EQES(0.5)S(0.5)GEEDNDLSPEER	1948.777
A0A0H2UHA0_RAT	EQES(0.5)S(0.5)GEEDNDLSPEER	1948.777
A0A0H2UHB7_RAT	KGS(0.068)LDS(0.931)DNDDEKDPQHS(0.001)LNATHHADK	2873.2812
A0A0H2UHB7_RAT	MFS(0.001)NPDNGS(0.999)PAMTHR	1660.7086
A0A0H2UHB7_RAT	NLTS(0.005)S(0.007)S(0.983)LNDIS(0.005)DKPEK	1746.8636
A0A0H2UHQ3_RAT	ANS(1)QDSLASR	1047.4945
A0A0H2UHQ3_RAT	KPPPPAS(0.839)PGS(0.064)S(0.064)DS(0.017)S(0.017)AR	1536.7532
A0A0H2UHZ1_RAT	S(0.792)QVET(0.208)EDLILKPGVVHVIDIDR	2474.3381
A0A0H2UHZ2_RAT	EFITGDVEPTDAES(0.005)AWHS(0.995)ENEEDDK	2849.1788
A0A0H2UHZ4_RAT	EES(1)DGEYDEFGR	1431.5426
A0A0H2UI34_RAT	VQDNHLS(1)PNK	1150.5731
A0A0U1RRP4_RAT	AHS(1)PQGEGEIPLHR	1526.759
A0A0U1RRV0_RAT	VES(1)PPAAR	825.43447
A0A0U1RRZ5_RAT	FSDEEDGRDS(1)DEEGAEGHK	2107.8203
A0A0U1RRZ5_RAT	EGPEPPEEV PAPT(0.037)T(0.963)PPAPK	1938.9575
A0A0U1RS39_RAT	AISAPT(0.001)S(0.982)PT(0.017)R	999.53491
A0A140TA95_RAT	AAT(0.002)EALGEKS(0.948)PEGT(0.041)T(0.009)VSGYDIMK	2354.1312

A0A140TAB2_RAT	GEGEEDHES(0.998)PS(0.001)SGR	1471.5811
A0A140TAG3_RAT	ANLS(1)PDR	771.38752
A0A140TAI3_RAT	NEKS(1)EEEQSSASVK	1550.706
A0A140UHX6_RAT	VLDT(0.046)PLS(0.944)EGDEPT(0.008)T(0.002)LPAQR	2038.0219
A0A173DW41_RAT	VGHDS(1)ELENQDKK	1497.7059
A0A1B0GWY5_RAT	EAQELGS(1)PEDR	1229.5524
A0A1B0GWY5_RAT	LS(1)PPHSPR	889.477
A0A1K0FUA6_RAT	VVAGVAS(1)ALAHK	1121.6557
A0A1L5YJQ7_RAT	HNPQS(1)PLQDSSATLK	1621.806
A0A1W2Q6I6_RAT	LIS(0.032)GDAEPT(0.968)PEQEEK	1641.7734
A0A1W2Q6Q2_RAT	AQPAPPELNS(0.01)ES(0.023)EDY(0.001)S(0.805)PS(0.132)S(0.023)S(0.004)ET(0.001)VR	2576.1514
A0A1W2Q6Q2_RAT	IS(0.002)QHGG(0.708)S(0.22)T(0.069)S(0.002)LSSTK	1475.7216
A0JN25_RAT	TDHGAEIVY(0.988)KS(0.995)PVVS(0.012)GDT(0.003)S(0.003)PR	2214.0917
A0JN25_RAT	S(0.003)PVVS(0.996)GDT(0.001)SPR	1100.5462
A0JN25_RAT	SPVVS(0.019)GDT(0.077)S(0.904)PR	1100.5462
A0JN25_RAT	TDHGAEIVY(0.067)KS(0.773)PVVS(0.773)GDT(0.693)S(0.693)PR	2214.0917
A0JN25_RAT	T(1)PPGSGEPPK	965.48181
A0JN25_RAT	TDHGAEIVY(0.988)KS(0.995)PVVS(0.012)GDT(0.003)S(0.003)PR	2214.0917
GYS1_RAT	HSS(0.988)PHQS(0.011)EDEEEPR	1662.687
GYS1_RAT	HSSPHQS(1)EDEEEPR	1662.687
A7BJV7_RAT	NTADHDES(1)PPR	1237.5323
TM163_RAT	S(1)PPPGVPRPPR	1309.7255
B0BMV8_RAT	LIEQPELAS(1)K	1126.6234
B0K014_RAT	SASSGAEGDVS(0.905)S(0.095)EREP	1563.6649
STK24_RAT	AHS(0.999)PVQS(0.001)GLPGMQTLK	1649.8559
B1H266_RAT	FNFES(0.001)VPES(0.999)PGEK	1465.6725
B1VKB4_RAT	VASLS(1)PAR	799.4552
B1WBR5_RAT	HQPAAS(1)PVVVR	1159.6462
B1WBR5_RAT	S(1)PPPAKPR	961.5709
B1WC16_RAT	KAEGEPQEES(1)PLK	1440.7096
B1WC16_RAT	ELFDY(0.005)S(0.995)PPLHK	1344.6714
B1WC16_RAT	KEVQS(1)PEQVK	1170.6245
B1WC16_RAT	IDIS(1)PSALR	970.54475
B1WC16_RAT	YSPS(0.001)QNS(0.998)PIHHIPSR	1718.8489
PTSS2_RAT	VAGSGS(0.008)ES(0.992)PLLEGR	1414.7052
B2GV41_RAT	EREADEDS(1)EPER	1460.6015
B2GV74_RAT	KLDEDAS(1)PNEEKGDVPK	1869.8956
B2GV74_RAT	VDS(0.999)PT(0.001)VNTTLR	1201.6303
B2RYA6_RAT	IAAPELHKGDS(0.818)DS(0.182)EEDEPAK	2136.9811
B2RYB3_RAT	APQTS(0.05)S(0.949)PPPVR	1135.5986
B2RYB3_RAT	EKS(1)PELPEPSVR	1366.7092
B2RYB3_RAT	HRPS(0.84)S(0.16)PATPPPK	1270.6782
B2RYB3_RAT	KVELS(0.874)ES(0.126)EEDKGSK	1563.7628

B2RYB3_RAT	LSPS(0.01)AS(0.989)PPR	910.48723
B2RYB3_RAT	RRT(1)PS(1)PPPR	1062.6047
B2RYB3_RAT	RY(0.001)S(0.999)PIQR	1015.5563
B2RYB3_RAT	S(0.008)VS(0.109)GS(0.87)PEPT(0.012)AK	1058.5244
B2RYB3_RAT	VSVS(1)PGR	700.38679
B2RYB3_RAT	RRT(1)PS(1)PPPR	1062.6047
B2RZ23_RAT	RPS(0.97)S(0.03)PAPGPSR	1107.5785
B2RZ73_RAT	AEETET(0.006)AS(0.146)S(0.848)PPEKDR	1645.7431
B2RZ79_RAT	ELS(1)APAR	742.39735
P5I11_RAT	KHS(1)QTDLVSR	1169.6153
B4F772_RAT	CHAEHT(1)PEEEDHTGAK	1959.8381
B4F7E7_RAT	NLGLAS(1)PEEHPK	1290.6568
B5DEI5_RAT	AVS(1)PEGDER	958.43559
B5DEI5_RAT	DVINRS(0.985)PT(0.015)QLGK	1326.7256
B5DEX2_RAT	KEEHT(1)LLEK	1254.6456
SNPH_RAT	RT(0.128)S(0.872)PPVSVR	997.56688
SNPH_RAT	EEGT(0.936)GES(0.007)AGGS(0.057)PAR	1303.564
SNPH_RAT	QAGDPS(0.005)NT(0.995)PAEDR	1356.5906
SNPH_RAT	RT(0.5)S(0.5)PPVSVR	997.56688
EIF3C_RAT	QPLLS(1)EDEEDTKR	1671.8315
B5DFI3_RAT	AIEQADLLQEEDES(1)PR	1841.8643
B5DFK6_RAT	HS(0.004)S(0.619)LPT(0.378)ES(1)DEDIAPAQR	1851.8599
B5DFK6_RAT	HS(0.004)S(0.619)LPT(0.378)ES(1)DEDIAPAQR	1851.8599
B5DFK6_RAT	S(1)PEKEGVPGVEK	1254.6456
B5DFK6_RAT	HS(0.004)S(0.018)LPT(0.529)ES(0.449)DEDIAPAQR	1851.8599
B5DFL0_RAT	QPS(0.234)S(0.766)PGPQPR	1049.5254
C6L8E0_RAT	LS(0.006)S(0.994)PVLHR	907.52395
D3Z8W6_RAT	EEHGAQAGPAS(0.005)APAS(0.015)APAQGS(0.98)PFR	2290.0727
D3Z9C0_RAT	GFSQYGVVS(0.004)GS(0.85)PT(0.146)K	1313.6252
D3Z9C7_RAT	EKPELVDDL(1)PR	1396.7198
D3Z9C7_RAT	HSWHDEDETFDES(1)PELK	2214.8978
D3Z9C7_RAT	IS(1)PEKPQDQK	1296.6674
D3Z9C7_RAT	TPPSNLS(0.002)PIEDAS(0.835)PT(0.163)EELR	2052.0011
D3Z9C7_RAT	IVDSGVQT(1)DDEETADR	1748.7701
D3Z9I0_RAT	VVT(0.003)MAEPGAAS(0.997)PPPPAR	1646.845
D3ZA84_RAT	LDEGT(1)PPEPK	1081.5292
D3ZAG3_RAT	ESPGGCIS(0.991)PGS(0.009)QEK	1431.63
D3ZAU7_RAT	APPDS(0.964)PT(0.029)T(0.007)PVR	1136.5826
D3ZAY8_RAT	EAGVVHS(1)DAEKDQEEEEQK	2155.9505
TUTLB_RAT	APS(0.003)ES(0.164)S(0.832)DDQGQPAAK	1486.6536
D3ZB78_RAT	FT(1)PPAFIRPTR	1301.7244
D3ZBC7_RAT	LAGLGPEDDPDT(1)DDEQEPR	2067.8869
H15_RAT	SETAPAET(0.002)TAPAPVEKS(0.998)PAK	1981.0004



D3ZBU7_RAT	DKS(1)PSEGDVAPPKR	1481.7474
D3ZBU7_RAT	DKS(0.98)PS(0.02)EGDVTTPPKR	1511.758
D3ZC55_RAT	ETAPTSAYS(0.173)S(0.827)PAR	1336.6259
D3ZC56_RAT	LLDPEDVDVS(0.5)S(0.5)PDEK	1656.773
D3ZC56_RAT	LLDPEDVDVS(0.5)S(0.5)PDEK	1656.773
D3ZCL8_RAT	EYEEIHS(1)LK	1275.5983
D3ZCL8_RAT	LPS(1)PTK	641.37483
D3ZCZ3_RAT	VTGNPEDSCAS(0.002)EAPGS(0.171)S(0.827)PK	1888.8109
D3ZD80_RAT	ADEPS(0.386)S(0.614)PAEEKDEGGGK	1701.733
D3ZDT1_RAT	ASQPGPTAES(0.011)QS(0.738)S(0.251)PHR	1635.7601
D3ZDT1_RAT	ASQPGPTAESQS(0.224)S(0.776)PHR	1635.7601
D3ZDU2_RAT	ILD(0.001)S(0.001)S(0.001)LT(0.001)QS(0.001)APAS(0.851)PT(0.145)NK	1829.9371
D3ZE17_RAT	VPLPGGS(1)PEVK	1175.655
D3ZE14_RAT	DKDS(0.037)S(0.963)EPDENPATEPR	1785.7653
D3ZE14_RAT	QNS(1)LEYMDQNDNR	1626.658
D3ZE16_RAT	MNT(0.001)APS(0.172)RPS(0.682)PT(0.145)R	1313.651
D3ZEL0_RAT	YTEQDRS(1)PR	1150.5367
D3ZET9_RAT	AES(1)PPADAK	884.42396
D3ZET9_RAT	HDDGTQS(1)DSENAGVHR	1723.7146
D3ZF45_RAT	RPS(1)PPAAGK	879.49265
PRRT2_RAT	HPS(0.812)S(0.188)QLAGPGVEGEGTQKPR	2088.0348
D3ZFD0_RAT	FSHNY(0.001)LS(0.019)DS(0.902)DT(0.078)EAK	1612.7005
D3ZFD0_RAT	S(0.018)LAPDLS(0.982)DDEHDPVDSISRPR	2320.0931
D3ZG19_RAT	ES(0.604)S(0.396)PFINSTDTEK	1453.6573
D3ZG19_RAT	NKGPS(1)PVSEGIK	1298.683
D3ZGN7_RAT	GPSQVS(0.125)S(0.769)PS(0.107)QPPQK	1422.7103
D3ZGN7_RAT	GRS(0.999)EEELEAS(0.001)K	1233.5837
D3ZH78_RAT	AVAT(0.094)S(0.899)PS(0.007)LEAPK	1169.6292
D3ZIL9_RAT	RPGPEHS(0.001)JGLEKES(0.999)DEEPED	2249.0084
D3ZJG4_RAT	ANS(1)LDNER	917.42027
D3ZJR6_RAT	VAS(1)PANVGTLHTLSR	1521.8263
D3ZJU5_RAT	NEEPVR(1)PER	1211.5895
D3ZKQ4_RAT	NIS(0.838)LS(0.707)S(0.455)EEEAEGLAGHPR	1894.9021
D3ZKQ4_RAT	NIS(0.136)LS(0.941)S(0.923)EEEAEGLAGHPR	1894.9021
D3ZKQ4_RAT	NIS(0.136)LS(0.941)S(0.923)EEEAEGLAGHPR	1894.9021
D3ZKX8_RAT	T(0.066)S(0.066)ES(0.519)S(0.349)EEVPEEEPEKR	1860.8225
D3ZL24_RAT	KGSEVTAS(0.014)S(0.013)AAT(0.01)GT(0.054)S(0.909)PR	1720.8228
D3ZMI4_RAT	APES(0.975)DT(0.025)GDEDQDQER	1690.6554
D3ZMI4_RAT	DKS(1)DS(0.995)ET(0.005)EGLVFAR	1552.7369
D3ZMI4_RAT	DKS(1)DS(0.995)ET(0.005)EGLVFAR	1552.7369
D3ZMI4_RAT	EDDAES(1)GGRRS(1)EAEEGEVR	2076.8944
D3ZMI4_RAT	S(1)EAEEGEVR	1004.4411
D3ZMI4_RAT	ET(0.044)DPS(0.956)PEER	1058.4516

D3ZMI4_RAT	FRYS(1)GR	784.39802
D3ZMI4_RAT	GACS(0.5)T(0.5)PELPQFESVK	1648.7767
D3ZMI4_RAT	GPSSQEDES GGIEDS(1)PDR	1860.761
D3ZMI4_RAT	GT(0.421)VS(0.579)PPAVEPETEDR	1582.7475
D3ZMI4_RAT	LPSSPAS(0.006)PS(0.994)PK	1066.5659
D3ZMI4_RAT	LVS(1)PEPPPK	962.54368
D3ZMI4_RAT	APESDT(1)GDEDQDQER	1690.6554
D3ZMI4_RAT	ELKPEQET(0.069)T(0.931)PR	1326.6779
D3ZMI4_RAT	GACS(0.5)T(0.5)PELPQFESVK	1648.7767
D3ZMI4_RAT	GT(0.5)VS(0.5)PPAVEPETEDR	1582.7475
D3ZMI4_RAT	RSEAEEGEVRT(1)PTK	1587.7853
D3ZMS5_RAT	ES(0.009)DILS(0.991)DEEEDFHHLK	2038.912
D3ZMX6_RAT	GLGPPS(1)PPAPPR	1141.6244
D3ZMX6_RAT	GPAGEAS(0.001)AS(0.999)PPVR	1194.5993
D3ZNK1_RAT	HGAGGIS(1)PAGQEV DANLQK	1847.9126
D3ZNU3_RAT	VQS(1)LAQNPR	1011.5461
D3ZPH3_RAT	HAELS(0.006)GS(0.994)PLK	1037.5506
D3ZPJ0_RAT	LVSQEHL LLS(0.17)S(0.83)PEALR	1790.989
D3ZPN3_RAT	LAIQGPEDS(0.855)PS(0.145)R	1268.6361
D3ZQI7_RAT	RAT(1)PEPEEAGGR	1268.6109
D3ZQL7_RAT	AANKT(1)PPKS(1)PGDPAK	1477.7889
D3ZQL7_RAT	AVS(0.016)S(0.983)PT(0.001)VSR	902.48214
D3ZQL7_RAT	AANKT(1)PPKS(1)PGDPAK	1477.7889
D3ZRC3_RAT	LNHS(1)PPQSSSR	1208.5898
D3ZS76_RAT	DARPAS(1)PAGIPK	1178.6408
PI51A_RAT	IPLKPS(0.998)PT(0.002)K	979.60662
D3ZSY8_RAT	HGAS(0.003)AAPS(0.997)PPPR	1143.5785
D3ZSZ4_RAT	ELLGLEDES(1)PAH	1308.6198
D3ZT07_RAT	FGIHVY(0.001)QFPECDS(0.999)DEDEDFKQQDR	3003.2617
D3ZT07_RAT	LAT(1)PEDKQDIDK	1371.6882
D3ZT71_RAT	S(0.989)HT(0.011)GEAIAAR	1011.5098
D3ZTF0_RAT	RPPVVVNLS(0.002)T(0.053)S(0.945)PR	1420.815
D3ZTF0_RAT	VALAAGS(0.989)PT(0.011)RPPPAR	1459.8259
D3ZTF0_RAT	VPQSLTT(0.004)APAS(0.995)PPVLQR	1760.9785
D3ZTF1_RAT	MLGEDS(1)DEEDEDTTAGK	1911.7528
D3ZU55_RAT	EGS(1)PIPHDPDLGSK	1447.6943
D3ZUW0_RAT	IS(0.008)NS(0.899)S(0.091)EFS(0.002)AK	1068.5088
D3ZVQ0_RAT	GTGLQPGEELPDIAPPLVT(1)PDEPK	2598.3065
D3ZWA1_RAT	VTAS(1)PELAEEAAGR	1341.6888
D3ZWH2_RAT	EFS(1)PSFQHR	1133.5254
D3ZWL6_RAT	DGGEALVS(1)PDGTVTEAPR	1769.8432
D3ZWQ0_RAT	GLAS(0.054)S(0.946)PPGGALRPR	1334.7419
D3ZX42_RAT	GVSEDET(1)DEEKETLK	1693.753

D3ZXY2_RAT	EET(0.011)QPLS(0.542)HS(0.447)PK	1251.6095
D3ZYS1_RAT	HS(0.009)APS(0.063)PPVS(0.831)VGS(0.096)EEPHS(0.001)VLK	2177.0865
D3ZYW8_RAT	ALDPAPLAQPT(0.003)PVG(0.003)VQT(0.482)S(0.513)PELEHR	2609.3449
D3ZZ99_RAT	AAVVT(0.07)S(0.93)PPPTTAPHK	1472.7987
D3ZZ99_RAT	EKS(0.878)PPDQS(0.121)AVPNTPPSTPVK	2075.0535
D3ZZ99_RAT	EKS(0.325)PPDQS(0.657)AVPNT(0.016)PPS(0.001)TPVK	2075.0535
D3ZZ99_RAT	GDDASEEGQNGS(0.064)S(0.936)PK	1476.5965
D3ZZ99_RAT	GS(1)EENLDETR	1148.4946
D3ZZ99_RAT	AAVVT(0.5)S(0.5)PPPTTAPHK	1472.7987
D3ZZ99_RAT	SPPDQS(0.002)AVPNT(0.918)PPS(0.049)T(0.031)PVK	1817.9159
D3ZZ99_RAT	SPGT(1)PAGEGSGSPPK	1324.6259
D3ZZQ0_RAT	QNS(1)DPTSENPLPTR	1651.7802
D3ZZQ0_RAT	S(0.002)EGS(0.998)PVLPEPSK	1362.6779
D4A0A1_RAT	DSDAES(0.004)DAGKKES(0.993)DDDS(0.004)RPPHR	2413.0378
D4A0H1_RAT	KEVRY(1)GS(1)LK	1078.6135
D4A0H1_RAT	KEVRY(1)GS(1)LK	1078.6135
D4A0I5_RAT	ATT(0.012)S(0.001)AS(0.003)AS(0.965)PT(0.018)LR	1161.599
D4A0X3_RAT	KPGGDLPLHS(0.045)AS(0.952)DDET(0.003)PR	1947.9286
D4A148_RAT	KGS(0.951)PELQT(0.049)VHSWPGDR	1792.8856
D4A1G8_RAT	EIHDVAGDGDS(0.332)JLGS(0.628)PGPT(0.04)R	1878.8708
D4A1G8_RAT	HEDGT(0.003)QS(0.994)DS(0.003)EDPLAK	1627.6962
D4A1G8_RAT	VVQT(0.029)S(0.968)PS(0.003)AR	943.50869
D4A1M4_RAT	LVS(1)GET(0.667)GGT(0.667)VT(0.667)IR	1288.6987
D4A1M4_RAT	LVS(1)GET(0.667)GGT(0.667)VT(0.667)IR	1288.6987
D4A1M4_RAT	LVS(1)GET(0.667)GGT(0.667)VT(0.667)IR	1288.6987
D4A1M4_RAT	LVS(1)GET(0.667)GGT(0.667)VT(0.667)IR	1288.6987
D4A3C2_RAT	TVT(0.001)VIS(0.999)PEDEQK	1344.6773
D4A3T0_RAT	RPESAPAES(0.033)S(0.951)PS(0.016)K	1341.6525
D4A404_RAT	S(0.067)HS(0.815)S(0.117)PSLNPDASPVTAK	1693.8271
D4A404_RAT	SHSSPSLNPDAS(0.987)PVT(0.013)AK	1693.8271
D4A463_RAT	RPS(1)APMAR	884.46506
D4A4M0_RAT	ETIS(0.012)AIDT(0.072)S(0.915)PKENT(0.001)PVR	1856.948
D4A4M0_RAT	LHSQDPLLS(1)PER	1390.7205
D4A4W6_RAT	VLHGAQT(0.053)S(0.947)DEEKDF	1574.7213
D4A4X4_RAT	ELS(1)IQIDDER	1216.5935
D4A510_RAT	KRS(0.919)PS(0.381)PS(0.7)PTPEAK	1380.7361
D4A510_RAT	S(0.005)PS(0.995)PSPTPEAK	1096.5401
D4A510_RAT	KRS(0.919)PS(0.381)PS(0.7)PTPEAK	1380.7361
D4A559_RAT	ECS(0.004)LS(0.996)PK	819.37965
D4A559_RAT	KGAEDEDEDDDS(1)EEEEIK	2237.8819
D4A5J1_RAT	ASAESEAS(1)PPSLR	1428.6845
D4A626_RAT	IKES(0.998)PS(0.002)EQESR	1288.6259
BIG1_RAT	VETEQS(1)PPHGEAK	1535.758

D4A644_RAT	KPGAGGS(1)PALVR	1108.6353
D4A6H8_RAT	HIS(1)PVQALSEFK	1354.7245
D4A6H8_RAT	TPEELEDSD(1)DFEQEDYDVR	2329.9346
D4A720_RAT	S(0.899)GS(0.101)HIGSR	775.41882
D4A8G7_RAT	GPPS(1)PPAPVMHSPSR	1512.7507
D4A8V2_RAT	YVLT(0.049)S(0.951)PR	834.45995
D4A997_RAT	AEDDGGES(0.997)EGDAS(0.003)EK	1494.5594
D4A997_RAT	VFDDS(1)DEKEDEEDTDVR	2041.8236
D4AAZ8_RAT	KAS(1)PEPEGETAGK	1299.6307
D4ABI7_RAT	WLDES(1)DAEMELR	1492.6504
D4ABT8_RAT	AVEEQGDDQDS(1)EK	1448.5903
D4ABT8_RAT	S(1)GDETPGSEAPGDK	1345.5634
D4ABT8_RAT	SGDET(1)PGSEAPGDK	1345.5634
D4ABZ4_RAT	AAGGAAS(1)PGLGGAR	1168.5949
D4ACZ5_RAT	S(0.001)VT(0.001)S(0.003)NQS(0.003)DGT(0.003)QES(0.009)CES(0.981)PDVLDLDR	2410.019
D4AD03_RAT	DSGLEDDGGES(1)PSFDTPSQR	1979.8345
D4ADD3_RAT	S(0.376)HS(0.623)AGEVGEDS(0.001)R	1229.5273
D4AE00_RAT	AFY(0.002)GS(0.998)EEDEAK	1244.5197
D4AE00_RAT	GPGS(1)EEAATAALPAR	1396.6947
D4AE69_RAT	AETET(0.963)S(0.037)PGHAPDR	1366.6113
D4AE85_RAT	GT(0.002)GPPS(0.864)PT(0.134)KDR	1111.5622
CAMP2_RAT	FDGES(1)DKEQFDDQK	1801.7279
D4AEK9_RAT	LDQPVSAAPS(1)PR	1262.6619
D4AEL8_RAT	VAS(0.972)FS(0.548)KVS(0.267)S(0.213)EK	1167.6136
D4AEL8_RAT	VAS(0.972)FS(0.548)KVS(0.267)S(0.213)EK	1167.6136
E9PSJ4_RAT	NVST(0.002)DS(0.998)AENEK	1321.5634
E9PSJ4_RAT	GT(0.031)DT(0.969)PNKAEISK	1259.6357
E9PSK7_RAT	LFS(0.017)S(0.043)S(0.026)S(0.083)S(0.831)PPPAK	1203.6136
E9PSN4_RAT	RS(1)PERPTGDLR	1282.6742
E9PST5_RAT	LQPEQES(1)PK	1054.5295
E9PST5_RAT	SSSFSEKGES(1)DDEKPR	1912.8286
E9PTU4_RAT	VIENT(0.002)DGS(0.998)EEEMDAR	1693.7101
FILM19_RAT	HAFSPVASVES(0.772)AS(0.228)GEVLHSPK	2135.0647
FILM19_RAT	HAFSPVASVES(0.068)AS(0.93)GEVLHS(0.003)PK	2135.0647
FILM19_RAT	VLHAQCHS(0.002)T(0.01)PDS(0.988)AEDVRK	2048.9698
FILM19_RAT	VLHAQCHS(0.023)T(0.969)PDS(0.009)AEDVR	1920.8748
FILMD9_RAT	DPETGVDNT(0.263)S(0.737)PK	1258.5677
FILMT8_RAT	AS(0.616)S(0.384)PQTEPLPR	1181.6041
FILMT8_RAT	GDFS(1)PFGNTQGPSR	1465.6586
FILMV8_RAT	LAAGAESPQPAS(0.539)GNS(0.432)PS(0.029)EDDR	2054.9141
FILMV8_RAT	LAAGAESPQPAS(0.001)GNS(0.997)PS(0.002)EDDR	2054.9141
FILMV8_RAT	KQET(1)PDEVGSQR	1372.6583
FILNB9_RAT	GTQADWES(1)PER	1274.5527

FILNB9_RAT	HMQMS(0.035)S(0.965)QEALNK	1402.6333
FILNB9_RAT	T(0.005)DGEAS(0.994)PLKEAET(0.001)KEEEEEVEK	2476.1341
FILNK0_RAT	APHWTSASLTEAAAHPHS(1)PEMK	2355.1066
FILNK0_RAT	DGS(1)PDAPATPEK	1183.5357
FILNK0_RAT	DKVTDGIT(0.001)KS(0.999)PEK	1416.746
FILNK0_RAT	EAS(1)PPSSADK	987.4509
FILNK0_RAT	GNAQESLDT(0.019)VS(0.981)PK	1344.6521
FILNK0_RAT	KDDQS(1)PLDIK	1157.5928
FILNK0_RAT	LDTVLEKS(1)EEHVDSK	1727.8578
FILNK0_RAT	VDHGAEIIT(0.002)QS(0.978)PS(0.019)R	1508.7583
FILNK0_RAT	VT(0.003)S(0.997)EPEAVSEK	1174.5717
FILNK0_RAT	DGS(1)PDAPAT(1)PEKEEVPFSEYK	2292.0434
FILNK0_RAT	VTDGIT(0.827)KS(0.173)PEKR	1329.7252
FILNK0_RAT	ET(0.564)S(0.431)PET(0.005)S(0.001)LIQDEVALK	1758.8887
FILNK0_RAT	IST(1)PERK	829.46577
FILNK0_RAT	VAIIRT(1)PPK	993.6335
FILNP8_RAT	AGIPQHPPMAQNLQY(0.029)PDDS(0.971)DDEKK	2830.2981
FILNZ5_RAT	AAAAPSASSTPTVIAS(1)PK	1625.8625
FILP57_RAT	LKIS(1)PEQHWDFTAEDLK	2056.0266
FILPA3_RAT	AQAPELQEEERPGAVGS(1)PR	2148.056
FILPA3_RAT	VQT(0.581)PQS(0.419)PHQHPVAPGAVADK	2063.0548
FILPB9_RAT	WHQLQENHVS(0.219)S(0.781)D	1592.6968
FILPM3_RAT	RKS(1)EPAVGPPR	1192.6677
FILPN6_RAT	AHS(1)PLLK	764.45447
FILPQ1_RAT	Y(0.021)GLQDS(0.979)DEEEEHPPK	1900.7963
FILQN3_RAT	DKEDLVCS(0.069)AALHS(0.845)PQES(0.086)PVGK	2266.09
FILQN3_RAT	LS(0.194)AS(0.77)PQELGKPY(0.033)LES(0.003)FQPNLHSTK	2670.3653
FILQN3_RAT	RGS(0.712)GS(0.269)VDET(0.019)LFALPAASEPVPSSAEK	2714.3763
FILQZ9_RAT	AQS(1)PLLPEPLK	1191.6863
FILQZ9_RAT	GQS(1)PTAPGPPK	1035.5349
FILQZ9_RAT	T(0.013)T(0.013)ES(0.954)PS(0.017)AT(0.002)KPDDKEQSK	1847.8749
FILR60_RAT	APT(0.014)PGGGHPDS(0.986)PGLPAPAGQQQR	2192.0723
FILR60_RAT	QDIS(1)PTR	815.41373
FILRA4_RAT	RQS(1)IPEEFK	1132.5877
FILRI7_RAT	VGS(0.005)LT(0.994)PPS(0.232)S(0.769)PK	1068.5815
FILRI7_RAT	VGS(0.003)LT(0.997)PPSSPK	1068.5815
FILRI7_RAT	VQT(0.155)T(0.845)PPPTIQGQK	1393.7565
FILRL9_RAT	AETEEAEPEEDGEDNVS(0.649)GS(0.137)AS(0.214)K	2407.9623
FILRL9_RAT	ASAEGEATAVVS(0.002)PGVT(0.006)QAVVEHCAS(0.991)PEEK	3038.4139
FILRL9_RAT	ATVVVEAT(0.061)EPEPS(0.061)GS(0.061)IGNPAAT(0.061)T(0.132)S(0.564)PS(0.048)LS(0.01)HR	2961.468
FILRL9_RAT	DVSDERLS(1)PAK	1215.6095
FILRL9_RAT	SAGFIPIKEDFS(1)PEKK	1791.9407
FILRL9_RAT	EVPSKEEQS(1)PVK	1355.6933

FILRL9_RAT	ESVAS(1)GDDR	934.3992
FILRL9_RAT	HS(0.989)PT(0.011)EDEEIAK	1254.5728
FILRL9_RAT	S(0.996)QGS(0.002)T(0.001)SNSDWMK	1326.551
FILRL9_RAT	LGGDGS(1)PTQVDVSQFGSFK	1924.9167
FILRL9_RAT	MSISEGT(0.006)VS(0.994)DK	1152.5333
FILRL9_RAT	QPGVQS(1)PSR	954.48829
FILRL9_RAT	SDIS(1)PLTPR	984.52401
FILRL9_RAT	SLMS(0.02)S(0.98)PEDLTK	1206.5802
FILRL9_RAT	SPSLSPS(0.018)PPS(0.982)PIEK	1421.7402
FILRL9_RAT	SSISPMDEPVPS(0.003)ES(0.997)PIEK	2042.9354
FILRL9_RAT	T(0.004)LEVVS(0.262)PS(0.291)QS(0.136)VT(0.169)GS(0.125)AGHT(0.14)PY(0.08)Y(0.074)QS(0.58)PT(0.138)DEK	2964.3989
FILRL9_RAT	VESKPS(0.998)VT(0.002)EK	1102.587
FILRL9_RAT	VQSLEGEKLS(1)PK	1313.7191
FILRL9_RAT	AET(1)EEAEPEEDGEDNVSGSASK	2407.9623
FILRL9_RAT	DLT(0.001)GQVS(0.03)T(0.97)PPVK	1240.6663
FILRL9_RAT	T(1)PEDGGYSCEITEK	1584.6614
FILRV4_RAT	MQVDQEEPHT(0.092)EEQQPQT(0.908)PAENK	2592.1398
FILRY7_RAT	APPGPLPPAAS(0.034)PGPPAAS(0.963)PPAAPS(0.001)S(0.001)PR	2411.2597
FILRY7_RAT	DS(0.5)AS(0.5)PGAASGLDPLDSAR	1685.7857
FILRY7_RAT	DS(0.15)AS(0.85)PGAASGLDPLDSAR	1685.7857
FILRY7_RAT	GAASGPAAEEAGS(1)EEAGPAGEPR	2137.9512
FILRY7_RAT	GEPQCS(1)PEGPAR	1283.5564
FILRZ1_RAT	EAAT(1)PEEEGGAPEK	1413.626
FILRZ7_RAT	EPLTEKPKDS(1)PGEAK	1624.8308
FILRZ7_RAT	S(1)PVKEEIKPPAEVK	1549.8716
FILRZ7_RAT	S(1)PVKEEAKS(1)PAEAK	1469.7726
FILRZ7_RAT	S(1)PAEAKS(1)PAEAKS(1)PAEAK	1767.9003
FILRZ7_RAT	EEAKS(1)PEKEETR	1431.6842
FILRZ7_RAT	EEIKPPAEVKS(1)PEK	1579.8457
FILRZ7_RAT	S(1)PVVEVK	786.41233
FILRZ7_RAT	S(1)PEQVKS(1)PAKEEAK	1526.794
FILRZ7_RAT	SLAEAKS(1)PEK	1058.5608
FILRZ7_RAT	S(1)PAEAKS(1)PAEAKPPAEAK	1777.921
FILRZ7_RAT	S(1)PAEAKPPAEAKS(1)PAEAK	1777.921
FILRZ7_RAT	S(1)PAEAKS(1)PAEAKPPAEAK	1777.921
FILRZ7_RAT	S(1)PAEAKS(1)PAEVK	1212.635
FILRZ7_RAT	S(1)PAEVKS(1)PAVAK	1182.6608
FILRZ7_RAT	S(1)PAEAKS(1)PAEVKS(0.957)PAT(0.043)VK	1795.968
FILRZ7_RAT	S(1)PAEVKS(0.992)PAT(0.008)VK	1212.6714
FILRZ7_RAT	SPAEVKS(1)PATVK	1212.6714
FILRZ7_RAT	S(1)PGEAKS(1)PAEAK	1170.5881
FILRZ7_RAT	S(1)PAEVKS(1)PVEAK	1240.6663

FILRZ7_RAT	S(1)PAEVKS(1)PVEAK	1240.6663
FILRZ7_RAT	S(1)PAEAKS(0.972)PAS(0.028)VK	1170.6245
FILRZ7_RAT	SPAFAKS(0.999)PAS(0.001)VK	1170.6245
FILRZ7_RAT	S(1)PAEAKS(1)PVEVK	1240.6663
FILRZ7_RAT	S(1)PVEVKS(0.994)PAS(0.006)VK	1226.6871
FILRZ7_RAT	S(1)PVEVKS(1)PEK	1098.5921
FILRZ7_RAT	SPVEVKS(1)PEK	1098.5921
FILRZ7_RAT	S(1)PAGAKS(1)PAEAK	1112.5826
FILRZ7_RAT	S(1)PAEAKS(1)PVVAK	1182.6608
FILRZ7_RAT	S(1)PAEVKS(1)PAEVKS(1)PAEAK	1823.9629
FILRZ7_RAT	S(1)PAEVKS(1)PAEVKS(1)PAEAK	1823.9629
FILRZ7_RAT	S(1)PAEVKS(1)PAEVKS(1)PAEAK	1823.9629
FILRZ7_RAT	S(0.871)PAEVKS(0.799)PAT(0.438)VKS(0.891)PVEAK	1823.9993
FILRZ7_RAT	S(0.982)PAT(0.018)VKS(1)PVEAK	1212.6714
FILRZ7_RAT	SPATVKS(1)PVEAK	1212.6714
FILRZ7_RAT	S(1)PAEVKS(1)PAVAK	1182.6608
FILRZ7_RAT	S(1)PAEVKS(0.978)PVT(0.022)VK	1240.7027
FILRZ7_RAT	SPAFAKS(1)PVTVK	1240.7027
FILRZ7_RAT	S(1)PASVKS(0.982)PS(0.018)EAK	1186.6194
FILRZ7_RAT	S(1)PASVKS(0.982)PS(0.018)EAK	1186.6194
FILRZ7_RAT	S(1)PEQVKS(1)PAKEEAK	1526.794
FILRZ7_RAT	S(1)PGEAKS(1)PAEAK	1170.5881
FILRZ7_RAT	S(1)PMKEEAKS(1)PEK	1359.6704
FILRZ7_RAT	SPMKEEAKS(1)PEK	1359.6704
FILRZ7_RAT	S(1)PVKEEAKS(1)PAEAK	1469.7726
FILRZ7_RAT	TLDVKS(1)PEAK	1086.5921
FILRZ7_RAT	S(0.686)PAEVKS(0.972)PAT(0.91)VKS(0.432)PVEAK	1823.9993
FILS36_RAT	QPVELT(0.999)PT(0.001)DK	1126.587
FILSD1_RAT	NVEPPS(0.881)PT(0.119)PAAR	1234.6306
FILSE6_RAT	GEGPAIPGDT(0.998)PPPT(0.002)PR	1557.7787
VPS50_RAT	SAYQDY(0.003)DS(0.844)DS(0.154)DVPEELKR	2115.9233
FILSL6_RAT	IMES(1)PERK	988.50117
FILSL6_RAT	SDVET(0.017)AT(0.017)DS(0.959)DT(0.007)ESR	1511.6223
FILSM0_RAT	VS(0.002)DQNS(0.998)PVLPK	1182.6245
FILT49_RAT	RES(1)GEGEEVADSAR	1619.7023
FILUV9_RAT	HT(0.005)EPNET(0.687)T(0.285)PLT(0.022)EPEKGPVETK	2333.1387
FILV89_RAT	S(0.002)ENS(0.532)S(0.366)T(0.366)QS(0.366)S(0.366)PEMPTTK	1709.7414
FILVK0_RAT	YT(0.001)AGS(0.142)AS(0.748)PT(0.107)PT(0.002)FK	1326.6456
FILW91_RAT	AAQLQGS(1)PAPEK	1195.6197
FILWN1_RAT	QS(0.018)GS(0.982)PENWR	1059.4734
FILWT1_RAT	ETETMNQAT(1)PAR	1347.6089
FILWX5_RAT	RPS(0.03)AS(0.156)S(0.814)PNNTAAK	1299.6531
FILXB6_RAT	VNSLCT(0.001)DDDS(0.999)PHK	1486.6358

FILXB6_RAT	VPS(1)KEDDKLEIDLEHLHR	2059.0334
FILYA6_RAT	NMAPSQS(1)PVR	1213.5874
FILZX5_RAT	T(0.001)EGT(0.999)PPPGQPAK	1275.6459
F1M062_RAT	ET(0.034)ES(0.965)APGSPR	1029.4727
F1M0Z6_RAT	LELKPIDKS(1)PDPNPVMTDTPIPR	2572.3571
F1M1Y0_RAT	HVPS(1)PLNLEEVQK	1488.7936
F1M1Y0_RAT	NLS(1)SEEVARPR	1256.6473
F1M1Y0_RAT	T(0.21)GS(0.788)PLT(0.002)VATGNDQAATEAK	1830.8959
F1M1Y0_RAT	WVHFS(0.002)DAS(0.979)PEHVT(0.019)PELTPR	2204.0651
F1M1Y0_RAT	AT(1)PPPPPPPTYR	1289.6768
F1M1Y0_RAT	AVPAT(1)PPR	807.46029
F1M1Y0_RAT	RST(1)PTPELTSK	1215.6459
F1M2J2_RAT	LS(0.58)S(0.42)PAQSPSQK	1128.5775
F1M2K6_RAT	LYLQS(1)PR	875.4865
F1M2K6_RAT	S(0.834)PS(0.166)IDSIQK	973.50803
F1M2P8_RAT	VIS(1)PSEDR	901.45051
F1M324_RAT	LS(0.001)S(0.013)NCS(0.071)GVEGDVT(0.915)DEDEGAEMSQR	2571.0337
F1M392_RAT	ETDDIES(1)PKR	1188.5622
F1M3W5_RAT	ESEAGTGS(0.932)S(0.068)EHEDGER	1675.6558
F1M3W5_RAT	ESEAGTGSSEHEDGEREGS(1)PR	2201.9057
F1M3W5_RAT	FGDVEADS(1)PVEQTIQDHSFAFK	2432.1496
F1M3W5_RAT	MKLDHEL(1)LDR	1355.6867
F1M3W5_RAT	QLDHES(1)DDADREDDER	1943.7729
F1M3W5_RAT	QLDHES(0.017)DDADREDDERS(0.983)QEER	2573.0498
F1M403_RAT	KEDKPEVQS(1)PVK	1382.7405
F1M4A0_RAT	IDS(1)PGLK	728.40685
F1M4A0_RAT	VQIPVS(0.006)HPDPDPVS(0.727)DNEDDS(0.209)Y(0.058)DEDVHDPR	3287.4127
F1M4A4_RAT	SGT(0.931)S(0.069)QEELR	1005.4727
F1M4I1_RAT	T(0.006)PEELEDVS(0.994)DLEDDHEVR	2125.9288
F1M4W7_RAT	RPNEDS(1)DEDEEK	1461.5856
F1M6X3_RAT	EPEPAPPY(0.002)HS(0.995)PES(0.003)R	1706.7536
F1M787_RAT	ALQS(1)PEHHIDPIYEDR	1918.9173
F1M787_RAT	GGS(1)PLTTTQGGSPK	1387.6943
F1M787_RAT	GGSPLTTTQGG(0.792)PT(0.208)K	1387.6943
F1M7S2_RAT	LS(0.032)S(0.968)PPR	655.36532
F1M823_RAT	LLS(1)PGTSK	801.45962
F1M836_RAT	VRPSSDLSNS(0.016)T(0.134)GQS(0.85)PHHK	1932.9402
F1M842_RAT	LTTSEEERS(1)PAK	1346.6678
F1M8G9_RAT	DGS(1)KEPIVEMR	1259.618
F1M8I7_RAT	VQRPEDAS(0.306)GGS(0.161)S(0.532)PS(0.001)GTSK	1745.818
F1M8V2_RAT	LAGGQTSQPTTPLT(0.038)S(0.962)PQR	1838.9486
F1M9F9_RAT	NLS(0.014)IT(0.166)S(0.821)PPPGPAK	1277.698
F1M9G6_RAT	AS(0.113)DPQS(0.887)PPQVSR	1267.6157



F1M9G9_RAT	S(0.004)AS(0.996)EDSIR	863.39847
F1M9G9_RAT	GKEDEGT(1)PIKEDIITDK	1886.9473
F1M9N9_RAT	AEGFES(0.871)ES(0.129)EEGATKPK	1694.7635
F1M9N9_RAT	HS(1)PVFSGKPEK	1211.6299
F1M9N9_RAT	DSLES(0.2)S(0.8)PVEPK	1186.5717
F1M9N9_RAT	EIS(0.589)S(0.378)PS(0.026)S(0.007)PVK	1029.5342
F1M9N9_RAT	HLPVS(1)PGK	833.47594
F1M9N9_RAT	KGS(0.999)S(0.996)EES(0.005)VDEDR	1336.5743
F1M9N9_RAT	KGS(0.999)S(0.996)EES(0.005)VDEDR	1336.5743
F1M9N9_RAT	KGSSEES(1)VDEDR	1336.5743
F1M9N9_RAT	QSDS(0.007)NAS(0.993)FLR	1123.5258
F1M9N9_RAT	S(1)PQGLELPLHNR	1359.7259
F1M9N9_RAT	TVDEQEDMDLQIS(1)PDRK	2017.9262
F1M9N9_RAT	VET(0.996)PT(0.004)DIHSEK	1254.6092
F1M9N9_RAT	RFT(1)PEEEMFK	1312.6122
F1MA86_RAT	DTAS(0.006)LS(0.002)T(0.001)T(0.009)PS(0.19)ES(0.791)PR	1447.6791
F1MA86_RAT	EVHDELEDLPS(0.999)PPPPLS(0.001)PPPTTSPHK	2812.3919
F1MA86_RAT	EVHDELEDLPS(0.998)PPPPLS(0.975)PPPT(0.009)T(0.009)S(0.01)PHK	2812.3919
TPR_RAT	QTPQAPQS(1)PR	1108.5625
F1MAL5_RAT	VT(0.01)S(0.966)PT(0.017)S(0.007)GLK	888.49165
F1SW39_RAT	EDTDQEEKAS(1)NEDVTK	1836.7861
F1SW39_RAT	ET(0.298)S(0.701)VS(0.001)KEDTDQEEK	1623.7112
F1SW39_RAT	ET(0.004)S(0.106)VS(0.69)KEDT(0.2)DQEEK	1623.7112
F1SW39_RAT	ETSVSKEDT(1)DQEEK	1623.7112
F2W8B0_RAT	AIY(0.002)QGPS(0.555)S(0.389)PDKS(0.054)	1248.5986
F7DLY1_RAT	YWGPAS(0.978)PT(0.022)HK	1142.5509
F7F350_RAT	T(1)PPVVIK	752.47963
F7FKI5_RAT	YGMGT(0.134)S(0.866)VER	998.44913
F7FKI5_RAT	YHGHS(0.991)MS(0.009)DPGVSYR	1591.6838
F8WFH6_RAT	DLES(0.001)LS(0.999)PR	915.46616
F8WFH6_RAT	DTDAYSDL(1)DGEK	1414.5736
F8WFS9_RAT	AGT(0.943)KS(0.058)PAVS(0.802)PS(0.196)K	1128.6139
F8WFS9_RAT	DAATEEPGS(1)PVK	1199.567
F8WFS9_RAT	GPGQMTNADT(0.004)DGDS(0.995)YKDK	1999.8429
F8WFS9_RAT	SEDTVPEAAS(0.999)PPPSQGQHYFDR	2414.0775
F8WFS9_RAT	VTMILQS(1)PSFR	1277.6802
F8WFS9_RAT	AGT(0.943)KS(0.058)PAVS(0.802)PS(0.196)K	1128.6139
G3C8Z1_RAT	YKDDT(0.001)DS(0.997)PT(0.002)EDGEKPR	1851.8123
G3V6C3_RAT	GADS(1)GGEKEEGVNR	1403.6277
G3V6M3_RAT	GGQDDDDAET(0.108)GLT(0.892)EGEGEGEEKEPENLGK	3133.2967
G3V6P7_RAT	KGTGDCS(1)DEEVDGK	1495.6097
G3V6S0_RAT	AQTLPTSVVIT(0.001)S(0.004)ES(0.159)S(0.837)PGKR	2058.0957
G3V6S0_RAT	ES(0.567)S(0.433)PVPSPTSDR	1257.5837

G3V6S0_RAT	ES(0.171)S(0.829)PVPSPTSDR	1257.5837
G3V6S0_RAT	ESS(0.001)PVPS(0.955)PT(0.042)S(0.002)DR	1257.5837
G3V6S0_RAT	GDQVSQLPAEQGS(1)PR	1738.8234
G3V6S0_RAT	HDT(0.003)S(0.017)AS(0.153)T(0.604)QS(0.603)T(0.608)PAS(0.009)S(0.003)R	1531.6863
G3V6S0_RAT	RPPS(1)PEPSAK	1064.5615
G3V6S0_RAT	HDTAS(0.021)T(0.878)QS(0.094)T(0.008)PASSR	1531.6863
G3V6S0_RAT	HDTASTQS(0.066)T(0.934)PASSR	1531.6863
G3V6Y9_RAT	KADIDQS(1)PVSK	1186.6194
G3V700_RAT	LGADES(1)EEEGR	1190.5051
G3V733_RAT	T(0.065)PALS(0.805)PQRPLT(0.065)T(0.065)QQPQS(0.001)GTLK	2248.2175
G3V733_RAT	TPALS(0.089)PQRPLT(0.351)T(0.558)QQPQS(0.002)GTLK	2248.2175
G3V7G0_RAT	DFQEY(0.001)VEGEDFPAS(0.999)PQR	2109.928
G3V7G0_RAT	KPASVSPTPPS(0.923)PT(0.07)EGEAS(0.006)	1838.8898
G3V7G0_RAT	KPAS(0.003)VS(0.028)PT(0.159)T(0.799)PPS(0.814)PT(0.162)EGEAS(0.035)	1838.8898
G3V7P8_RAT	RLS(1)GGAVPSASMTR	1388.7194
G3V7P8_RAT	LSGGAVPS(0.001)AS(0.426)MT(0.573)R	1232.6183
G3V7S2_RAT	EKAEEEGGS(1)EEEVGDK	1720.7275
G3V7S2_RAT	AEEEGGSEEEVGDKS(1)PQESK	2119.9029
G3V7S2_RAT	AKS(1)PVPKS(1)PVVEVKPKPEAK	2144.2205
G3V7S2_RAT	S(1)PVVEVKPKPEAK	1436.7875
G3V7S2_RAT	EEPEVEKS(1)PVKS(1)PEAK	1910.9473
G3V7S2_RAT	EEEEQETQEKG(1)GQEEEK	2121.8822
G3V7S2_RAT	SPVKS(1)PEAK	941.5182
G3V7S2_RAT	GVVTNGLDVS(1)PAEEK	1513.7624
G3V7S2_RAT	VSGS(1)PSSGFR	979.47231
G3V7T8_RAT	ERS(0.999)LDS(0.001)VDR	1075.5258
G3V7T8_RAT	HAS(1)EPQPGPR	1074.5207
G3V7U2_RAT	ADS(1)VEQQDGAALEK	1459.6791
G3V7U2_RAT	AEEEMEET(0.005)HPS(0.993)DEEGEET(0.002)K	2317.938
G3V7U2_RAT	ALGLEES(1)PAEGSK	1286.6354
G3V7U2_RAT	DFQEDS(1)WGETK	1340.5521
G3V7U2_RAT	DFQEDS(0.001)WGET(0.039)KHS(0.939)PGVS(0.021)K	2032.9126
G3V7U2_RAT	DKS(1)LELR	859.47633
G3V7U2_RAT	EDS(0.991)EEQT(0.009)VKPGPEEGTSEEGK	2260.9819
G3V7U2_RAT	EAAAGCNT(0.063)S(0.937)AEK	1265.5194
G3V7U2_RAT	EES(1)EAEVKEDVIEK	1632.773
G3V7U2_RAT	EGEGGAGAPDS(0.003)S(0.01)S(0.041)FS(0.946)PK	1578.6798
G3V7U2_RAT	EVVPDS(1)PGDK	1041.4979
G3V7U2_RAT	S(1)PEQEVV	843.40865
G3V7U2_RAT	ET(0.167)S(0.816)PT(0.017)RGEPVGGQK	1441.7161
G3V7U2_RAT	GFKS(1)PPCEDFSVTGESEK	1999.8833
G3V7U2_RAT	GHWDDGTNDS(1)DLEK	1587.6437
G3V7U2_RAT	HTQEALKAS(1)PK	1208.6513

G3V7U2_RAT	MAS(1)PPSPGPPSAHTPFHQSPVEDK	2568.2067
G3V7U2_RAT	QEPDPGPNVEPS(0.5)IT(0.5)PPAVPPR	2193.1066
G3V7U2_RAT	SPFEIIS(0.991)PPAS(0.009)PPEMTGQR	2039.9986
G3V7U2_RAT	TEATQGLDY(0.014)VPS(0.019)AGT(0.044)IS(0.913)PT(0.008)S(0.002)SLEEDK	2695.2712
G3V7U2_RAT	VPSAPQES(1)PVPDTESTAPMR	2152.0106
G3V7U2_RAT	VRGES(0.857)S(0.143)EALK	1074.5669
G3V7U2_RAT	WLAES(1)PVGLPPEEDKLTR	2165.1004
G3V7U2_RAT	AELEEMEET(0.913)HPS(0.087)DEEGEETK	2317.938
G3V7U2_RAT	ALALVPGT(0.975)PT(0.025)R	1094.6448
G3V7U2_RAT	EDS(0.5)EEQT(0.5)VKPGPEEGTSEEGK	2260.9819
G3V7U2_RAT	QEPDPGPNVEPS(0.048)IT(0.952)PPAVPPR	2193.1066
G3V7X2_RAT	EHLGQGS(0.5)S(0.5)QEMEK	1458.6409
G3V7X2_RAT	EHLGQGS(0.416)S(0.584)QEMEK	1458.6409
G3V7X2_RAT	IETQTQEEVRDS(1)K	1561.7584
G3V7X2_RAT	VDEEQKLY(0.771)T(0.229)DDEDDVYK	2102.9168
G3V849_RAT	AMGDEDS(0.977)GDS(0.023)DTSPKPSPK	1919.8055
G3V849_RAT	AS(1)PDGSQTVR	1016.4887
G3V864_RAT	AVHT(0.031)S(0.966)PT(0.003)GGLGAR	1222.6418
G3V8A5_RAT	PTTQQS(1)PQDEQEK	1514.6849
G3V8D6_RAT	REDS(1)PGPEVQPMDB	1583.725
G3V8E2_RAT	AAS(0.998)PPAS(0.002)ASDLIEQQQK	1739.869
G3V8G4_RAT	ELET(0.012)PS(0.988)EEK	1060.4924
G3V8G4_RAT	EVAGET(0.058)GS(0.941)PELS(0.001)GVPR	1583.7791
G3V8I4_RAT	QGDNIS(1)DDEDEV	1490.6121
G3V8K2_RAT	MKGET(1)PVNSTMSIGQAR	1805.8764
G3V8L3_RAT	LRLS(0.994)PS(0.005)PTSQR	1240.6888
G3V8L9_RAT	ATEEPS(0.001)GT(0.072)GS(0.927)DELIK	1532.7206
G3V8P6_RAT	AGDS(1)DESRPDDK	1419.575
G3V8P8_RAT	GS(0.754)PS(0.246)GLAPILR	1066.6135
G3V8V4_RAT	LVEDERS(1)DR	1117.5364
G3V8W2_RAT	EDAPPEDKES(0.985)ES(0.015)EAK	1659.7112
G3V8W2_RAT	LDGET(0.002)AS(0.998)DSESR	1265.5372
G3V927_RAT	AMGDEDS(1)DESGGSPKPSPK	1946.8164
G3V953_RAT	VEGT(0.01)EIVKPS(0.99)PK	1282.7133
G3V984_RAT	EPELEMESLT(0.002)GS(0.998)PEDR	1817.7989
G3V984_RAT	FS(1)PIEEAK	919.4651
G3V984_RAT	QASAT(0.01)APGRES(0.99)PR	1326.664
G3V984_RAT	S(0.109)LS(0.891)DPKPLSPTAEESAK	1755.8891
G3V984_RAT	IADSSVQT(1)DDEEGEGR	1706.7231
G3V9E4_RAT	ALDIS(0.059)AS(0.941)DDEMARPK	1617.7668
G3V9G3_RAT	ES(0.255)S(0.721)DS(0.001)TNT(0.003)T(0.019)IEDEDAK	1740.7174
G3V9G3_RAT	ESS(0.001)DS(0.001)T(0.001)NT(0.014)T(0.982)IEDEDAK	1740.7174
G3V9U0_RAT	GWS(1)PPPEVR	1023.5138

G3V9W0_RAT	MS(1)PKPELTEEQK	1415.6966
G3V9X2_RAT	VDLAGS(1)PDQEASGLPDP	1822.8697
G3V9Z6_RAT	IS(1)NAEPEPR	1011.4985
I1T7F1_RAT	MHDSHLS(0.949)S(0.051)EEPK	1395.6089
I6L9H8_RAT	LGTGGGGS(1)PDK	944.45632
I7FKL4_RAT	AS(1)QKRPS(1)QR	1056.5788
I7FKL4_RAT	AS(1)QKRPS(1)QR	1056.5788
I7FKL4_RAT	FS(1)WGAEGQKPGFGYGG	1799.838
I7FKL4_RAT	S(1)PLPSHAR	863.46135
I7FKL4_RAT	HRDT(1)GILDSIGR	1338.7004
M0R3R6_RAT	QPT(1)PPFFGR	1045.5345
M0R3V7_RAT	GMIIEHEGDRPAS(1)K	1538.7511
M0R3V7_RAT	GMIIEHEGDRPAS(0.427)KT(0.573)EIEMDGK	2442.1519
M0R3Z8_RAT	HLDRS(1)PESDRPR	1463.7229
M0R3Z8_RAT	LLLLERPS(1)PVR	1291.7976
M0R4F8_RAT	FKERT(1)ER	964.50903
M0R567_RAT	KAS(1)PEPPSAESALK	1525.7624
M0R5I3_RAT	AEEAQT(1)DNEGE	1347.5539
M0R5U4_RAT	GQGT(0.082)AS(0.914)PGS(0.004)VSDLAQTVK	1701.8533
M0R5U4_RAT	QGDEES(0.999)ENS(0.001)VKR	1376.6168
M0R660_RAT	GAAQNIIPAS(0.284)T(0.716)GAAK	1368.7361
M0R6K4_RAT	NS(0.004)APAS(0.02)MS(0.955)PDGT(0.02)R	1289.567
M0R7B4_RAT	S(0.5)ET(0.5)APAAPAAPAVEK	1505.7726
M0R7B4_RAT	S(0.5)ET(0.5)APAAPAAPAVEK	1505.7726
M0R8V0_RAT	DHNLGS(1)PPK	963.47739
M0R920_RAT	S(0.952)PS(0.048)ESAEGTHTFEEK	1634.706
M0R961_RAT	VQIS(1)PDSGGLPER	1353.6888
M0R9R3_RAT	ASQVKPGDS(1)LPR	1253.6728
M0RA52_RAT	VVITQS(1)PGK	927.53893
M0RBB2_RAT	EPS(1)LHEIGEK	1137.5666
M0RBF0_RAT	APTAAPS(1)PEPR	1092.5564
M0RBL8_RAT	EGKPEDEVEPEDEEKS(1)DEEEKPDKK	2943.2993
M0RBL8_RAT	GT(0.003)DDS(0.997)PKNSQEDLQDR	1803.7871
M0RC17_RAT	DET(0.004)FGHEY(0.019)S(0.735)DS(0.241)DEKPLK	1858.8109
M0RDG0_RAT	AES(0.015)GDS(0.933)LS(0.041)S(0.011)EDR	1251.5215
M0RDG0_RAT	DSSLS(0.001)APS(0.998)PKPGK	1269.6565
M0RDJ7_RAT	ADEKKS(1)DTEGKPAR	1517.6958
M3ZCQ2_RAT	EEAS(1)DDDMEGDEAVVR	1765.6949
M9MMM9_RAT	LLDAEDVDVPS(1)PDEK	1640.7781
AMPH_RAT	AALPAGEGES(1)PEGAK	1382.6678
SCG1_RAT	EQS(0.082)S(0.916)QES(0.002)GEETR	1365.5644
SCG1_RAT	EQSSQES(1)GEETR	1365.5644
SCG1_RAT	NHPDSELES(0.036)T(0.062)ANRHS(0.662)EET(0.24)EEER	2595.1069

SCG1_RAT	VDNEEWTTGGGGHS(1)R	1499.6389
SCG1_RAT	WWQEEQLEPEES(0.763)REEVS(0.237)FPDR	2832.2627
NEB1_RAT	DLTGGGDLT(0.056)S(0.944)PDASASSCGK	1894.8214
NEB1_RAT	RPS(0.991)PGEVS(0.009)K	955.50869
AFAD_RAT	YVLSSQHRPDIS(0.995)PT(0.005)ER	1883.949
NSF1C_RAT	KKS(1)PNELVDDLK	1531.8246
NSF1C_RAT	RHS(1)GQDVHVVLK	1373.7528
NCKX2_RAT	GGG(0.914)S(0.086)ASLHNSLMR	1315.6303
NCKX2_RAT	GGG(0.037)S(0.288)AS(0.674)LHNS(0.001)LMR	1315.6303
KCC1B_RAT	HSHPGLGT(0.001)S(0.004)QS(0.995)PK	1331.6582
O70368_RAT	MAGPPAPPGGS(1)PR	1190.5866
SGTA_RAT	GPDR(1)PPSEEDSAEER	1841.8028
PNPO_RAT	GLAT(0.575)GDS(0.425)PLGPMTHHGEEEDWVYER	2653.1867
O88953_RAT	GIMES(1)PIVR	1000.5376
O88953_RAT	T(0.039)Y(0.014)ET(0.695)PPPS(0.084)PGLDPT(0.084)FS(0.084)NQPVPDAVR	2778.3501
MDHC_RAT	KLS(0.855)S(0.143)AMS(0.002)AAK	992.53247
ALDOA_RAT	GILAADES(0.869)T(0.126)GS(0.006)IAK	1331.6933
ALDOA_RAT	GILAADEST(0.002)GS(0.998)IAK	1331.6933
AT1A1_RAT	VDNS(0.057)S(0.203)LT(0.724)GES(0.015)EPQTR	1618.7435
AT1A2_RAT	AGQENIS(0.982)VS(0.018)K	1031.5247
AT1A2_RAT	EDS(0.764)PQS(0.236)HVLVMK	1368.6708
NEUM_RAT	AGDAPS(1)EKKGEGDAAPSEEK	2100.9447
NEUM_RAT	EGDGS(0.968)AT(0.009)T(0.001)DAAPAT(0.005)S(0.017)PKAEPSK	2216.0081
NEUM_RAT	KEGDGSATDAAPAT(0.039)S(0.961)PK	1702.801
NEUM_RAT	IQAS(1)FR	720.39187
NEUM_RAT	QADVPAAVT(0.685)DAAAT(0.12)T(0.195)PAAEDAAK	2154.0441
NEUM_RAT	QADVPAAVT(0.029)DAAAT(0.226)T(0.746)PAAEDAAK	2154.0441
CXA1_RAT	AS(0.28)S(0.72)RPRPDDLEI	1354.6841
CXA1_RAT	VAAGHELQPLAIVDQRPS(0.572)S(0.428)R	2143.1498
CXA1_RAT	VAAGHELQPLAIVDQRPS(0.5)S(0.5)R	2143.1498
KAP0_RAT	EDEIS(1)PPPPNPVVK	1516.7773
SYN1_RAT	GS(0.535)HS(0.032)QT(0.34)PS(0.092)PGALPLGR	1560.8009
SYN1_RAT	GSHS(0.002)QT(0.05)PS(0.948)PGALPLGR	1560.8009
CALM3_RAT	MKDT(0.01)DS(0.99)EEEIR	1351.5926
ACM2_RAT	EPVANQDPVS(0.962)PS(0.038)LVQGR	1791.9115
KCC2A_RAT	ES(0.867)S(0.073)ES(0.058)T(0.002)NTTIEDTK	1784.7436
KCC2A_RAT	ES(0.009)S(0.727)ES(0.203)T(0.079)NT(0.138)T(0.845)IEDEDTK	1784.7436
KCC2A_RAT	ESS(0.004)ES(0.001)TNT(0.021)T(0.973)IEDEDTK	1784.7436
KCC2G_RAT	QS(0.53)S(0.412)APAS(0.058)PAASAAGLAGQAAK	1810.9173
KAP3_RAT	RAS(0.996)VCAEAY(0.004)NPDEEEDDAESR	2411.9772
STMN1_RAT	ASGQAFELILS(1)PR	1387.746
STMN1_RAT	DLS(1)LEEIQKK	1201.6554
STMN1_RAT	ESVPEFPLS(1)PPK	1325.6867

STMN1_RAT	S(1)HEAEVLK	911.47125
KCC2D_RAT	ANVVT(0.01)S(0.99)PK	814.45487
H14_RAT	SETAPAAPAPAEKT(1)PIK	1917.0207
NFL_RAT	DEPPS(1)EGEAEEEEKEK	1830.7643
NFL_RAT	KEES(1)AGEEQAAK	1275.5943
NDKB_RAT	VMLGET(1)NPADSKPGTIR	1784.9091
SYT1_RAT	DDDAET(0.001)GLT(0.999)DGEEKEEPK	1976.8335
PGAM1_RAT	HGES(1)AWNLENR	1311.5956
KCNC1_RAT	LALS(0.012)DS(0.988)PDGRPGGFWR	1729.8536
KCNC1_RAT	AALANEDCPHIDQALT(1)PDEGLPFTR	2750.297
SL9A1_RAT	LDS(1)PTMSR	905.42767
ARRB1_RAT	DDKDEEDDGT(0.062)GS(0.938)PHLNNR	2012.8308
MARCS_RAT	AEDGAAPS(0.972)PS(0.021)S(0.006)ETPKK	1570.7475
MARCS_RAT	EAAEAEPAPGS(0.803)PS(0.16)AET(0.038)EGASASSTSSPK	2731.1944
MARCS_RAT	GEAAAERPGEAAVASS(0.956)PS(0.044)K	1783.8701
MARCS_RAT	LSGFS(1)FKK	912.5069
MARCS_RAT	RFS(1)FKK	811.47046
MARCS_RAT	VNGDAS(1)PAAAEFGAK	1353.6525
MARCS_RAT	AEDGAAPSPS(0.001)S(0.014)ET(0.985)PK	1442.6525
DLG4_RAT	DWGS(0.001)S(0.011)S(0.067)GS(0.921)QGR	1122.469
DLG4_RAT	EQLMNS(0.075)S(0.925)LGS(0.001)GTASLR	1649.8043
DLG4_RAT	RYS(1)PVAK	819.46029
DLG4_RAT	VHS(0.182)DS(0.789)ET(0.029)DDIGFIPSK	1745.8108
HS90B_RAT	EKEIS(1)DDEAEKEKGEK	1863.8222
HS90B_RAT	IEDVGS(1)DEEDDS(1)GKDKK	1864.8174
HS90B_RAT	IEDVGS(1)DEEDDS(1)GKDKK	1864.8174
CDK4_RAT	EVS(0.007)LRGAFS(0.993)PR	1314.7044
PAK1_RAT	DVAT(0.019)S(0.072)PIS(0.599)PT(0.308)ENNT(0.002)T(0.001)PPDALTR	2296.1183
CALX_RAT	AEDEILNRS(1)PR	1427.7005
CALX_RAT	QKS(0.985)DAEEDGGT(0.35)GS(0.664)QDEEDS(0.001)KPK	2335.9888
CALX_RAT	QKS(0.036)DAEEDGGT(0.128)GS(0.834)QDEEDS(0.001)KPK	2335.9888
CALX_RAT	SDAEEDGGT(0.973)GS(0.027)QDEEDSKPK	2079.8352
NOLC1_RAT	AGKES(1)EEEEEDTEQNKK	1978.8603
GFAP_RAT	MT(1)PPLPAR	881.47931
DPYL2_RAT	GLYDGPVCEVS(0.012)VT(0.988)PK	1619.7865
MOT1_RAT	DGKEDET(0.001)S(0.852)T(0.147)DVDEKPK	1791.801
CACB3_RAT	RS(1)PPPSLAK	951.55016
SC6A5_RAT	LS(0.402)S(0.598)PQAQATSAALR	1399.7419
STX1B_RAT	DS(1)DDEEEVVHVDR	1542.6434
STXB1_RAT	LNKTDEEIS(0.5)S(0.5)	1134.5404
STXB1_RAT	LNKTDEEIS(0.5)S(0.5)	1134.5404
TRA2B_RAT	SDSGEQNYGERES(1)R	1612.6714
RAB3A_RAT	MS(0.336)ES(0.654)LDT(0.01)ADPAVTGAK	1591.74

MK01_RAT	VADPDHDHT(0.001)GFLT(0.998)EYVAT(0.001)R	2142.997
KCNA2_RAT	IPS(0.865)S(0.135)PDLKK	983.56515
KCNA2_RAT	IPS(0.007)S(0.993)PDLK	855.47018
KPCG_RAT	MGPSSSPIPS(0.001)PS(0.004)PS(0.895)PT(0.087)DS(0.012)KR	2010.9681
KPCG_RAT	AAPALT(1)PPDR	1007.54
PGRC1_RAT	EGEPTVYS(1)DDEEPK	1722.7108
HS90A_RAT	EVS(1)DDEAEKEKEKEEK	2050.8702
HS90A_RAT	ES(0.944)DDKPEIEDVGS(0.056)DEEEEEKKDGDK	2850.205
HS90A_RAT	ESDDKPEIEDVGS(1)DEEEEEKK	2435.0347
CPLX2_RAT	AALEQCEGS(0.883)LT(0.117)RPK	1655.8301
FSCN1_RAT	VNASAS(0.037)S(0.963)LKK	1003.5662
P97904_RAT	QAEAVT(0.5)S(0.5)PR	957.48796
P97904_RAT	QAEAVT(0.5)S(0.5)PR	957.48796
UCHL1_RAT	QFLS(0.012)ET(0.012)EKLS(0.976)PEDR	1677.821
SV2A_RAT	GGLS(1)DGEGPPGGR	1154.5316
AP180_RAT	KPGNNEGSGAPS(1)PLSK	1538.7689
CAP1_RAT	LEAVSHTSDMHCYGDGS(0.847)PS(0.153)K	2176.9154
DYN3_RAT	RS(1)PPSPTTQR	1222.6418
SRSF5_RAT	S(0.455)GS(0.67)RS(0.875)PVPEK	1042.5407
SRSF5_RAT	S(0.455)GS(0.67)RS(0.875)PVPEK	1042.5407
Q3B8P7_RAT	DADEEDS(1)DEETSHLER	1875.7242
Q3KR72_RAT	QS(0.019)LGES(0.981)PR	872.43519
Q3KR72_RAT	T(0.001)LS(0.998)PT(0.001)PSAEGFQDGR	1561.7372
JKIP1_RAT	T(0.037)PAT(0.963)PEEDLDETTTR	1674.7584
Q3ZB99_RAT	DGS(1)PPPAFKPEPPK	1462.7456
Q3ZB99_RAT	VQVAPLQGS(1)PPLSHDDR	1814.9275
Q3ZB99_RAT	Y(0.011)S(0.989)PSYDR	886.3821
Q499Q4_RAT	AIGGILT(0.03)AS(0.97)HNPGGPNDFGIK	2205.1542
Q499Q4_RAT	AIGGILT(0.5)AS(0.5)HNPGGPNDFGIK	2205.1542
Q499R8_RAT	HTGPNS(1)PDTANDGFVR	1683.7601
PPME1_RAT	QCEGIT(0.189)S(0.792)PES(0.016)S(0.003)K	1321.582
EFHD2_RAT	ADLNQGIGEPQS(0.903)PS(0.097)R	1567.759
EIF3B_RAT	AEEEGGS(0.999)DGS(0.001)AAEAEPR	1660.6813
Q4K1K1_RAT	RPTEAVS(1)PK	983.53999
TCEA1_RAT	EPAISSQNS(1)PEAR	1384.6583
Q4KLL7_RAT	GNDS(1)DGAEASDDPEKK	1691.6758
Q4KLM7_RAT	LGS(0.002)S(0.998)PTSSCNPTPTK	1532.7141
Q52KJ9_RAT	KVEEEQEADEEDVS(0.997)EET(0.003)ENR	2522.0416
Q562A6_RAT	KS(1)DAGISSADAPR	1273.6262
Q568Y8_RAT	RDPS(1)LEEIQK	1213.6303
TM100_RAT	RES(0.997)QT(0.003)ALVVNQR	1399.7532
Q569C9_RAT	AAGGGGS(1)GEDEAQRS	1404.5866
Q5BJP4_RAT	DKS(1)PVREPIDNLTPEER	1994.0069

AN34A_RAT	RNT(1)APEAQESGLPSGLR	1781.902
Q5BKB9_RAT	EPGS(0.997)S(0.003)HLGSPDTAR	1409.6535
Q5D059_RAT	RDYDDMS(1)PR	1153.4822
Q5EB49_RAT	YDLDFKS(1)PDDASR	1527.6842
Q5EB89_RAT	IGHHS(0.997)T(0.003)SDDSSAYR	1531.6651
Q5FV10_RAT	S(0.008)ES(0.992)LDEEEKLELQR	1703.8214
RUFY3_RAT	ELDDIS(0.518)LT(0.463)PDPEPT(0.019)HEDPNYLMANER	3010.3502
ATG9A_RAT	HPEPVPEEGS(1)EDELPPQVHK	2249.06
ATG9A_RAT	RES(0.719)DES(0.273)GES(0.008)APEEGGEGAR	1947.8042
IMPCT_RAT	NFTNS(0.998)PEES(0.002)AK	1222.5466
Q5HZA7_RAT	S(0.003)PS(0.997)PPPDGSPAATPEIR	1674.8213
Q5HZA7_RAT	S(0.01)PS(0.142)PPPDGS(0.777)PAAT(0.071)PEIR	1674.8213
PP1R7_RAT	VES(1)EES(1)GDEEGKK	1421.6158
PP1R7_RAT	VES(1)EES(1)GDEEGKK	1421.6158
S35G2_RAT	EDYQEILDS(1)PIK	1448.7035
TR150_RAT	ASVSDLS(1)PR	930.47706
TR150_RAT	IDIS(0.999)PS(0.001)TFR	1034.5397
Q5M970_RAT	LEGNS(1)PQGSSHGVK	1395.6743
QCR6_RAT	LES(1)CDRR	934.42906
PP4P1_RAT	IINLGPVHPGPLS(1)PEPQPMGVR	2304.2413
ITM2C_RAT	AAAS(0.001)GPASASAPAAEILLT(0.999)PAR	1992.064
RCAS1_RAT	KLS(1)GDQITLPTTVDYSSVPK	2148.1314
BORG1_RAT	LHLES(1)PQPSPK	1231.6561
BORG1_RAT	LHLESPQPS(1)PK	1231.6561
Q5PQR0_RAT	GRLS(1)PVPVPR	1076.6455
AKA12_RAT	GLAS(1)PDR	714.36605
AKA12_RAT	GPLEAPQDGEAEEGT(0.002)T(0.043)S(0.954)DGEK	2115.908
AKA12_RAT	RPS(0.015)ES(0.985)DKEEELEK	1574.7424
Q5RJ9_RAT	GVDKPPS(0.984)PS(0.016)PIEMK	1480.7596
Q5RJK5_RAT	SLS(0.008)DS(0.159)ES(0.652)DDS(0.181)K	1168.4732
Q5RJN5_RAT	EEVAS(1)EPEEAASPITPK	1782.8523
Q5RKG9_RAT	SQSS(0.001)DTEQPS(0.938)PT(0.052)S(0.008)GGGK	1648.7176
P33MX_RAT	HPASAQSSPS(0.004)S(0.013)T(0.044)PHS(0.147)S(0.791)PK	1788.8391
MCES_RAT	GGGS(1)EDEPSPGGLTER	1543.675
MCES_RAT	TQDDLVEQNSSYVQDS(0.894)PS(0.106)K	2138.9604
FBX9_RAT	AVEEEQNGALY(1)EAIK	1662.8101
UBA1_RAT	AT(0.193)LPS(0.807)PDKLPGFK	1369.7606
PEA15_RAT	QPS(1)EEEEIK	1071.5448
Q5XI21_RAT	LPNLAS(0.954)PS(0.046)AEGPPRCPGAAPR	2211.1219
RAVR1_RAT	AADVSVT(0.006)HRPPLS(0.993)PEAEAEATPETVDR	2973.4316
SZRD1_RAT	ILGS(0.017)AS(0.983)PEEQEKPIIDRPTR	2364.2285
MFRIL_RAT	NAS(1)VPNLR	869.47191
PGRC2_RAT	LLKPGEEPS(0.001)EYT(0.998)DEEDT(0.001)K	2078.9532



DGLA_RAT	GS(0.995)PS(0.005)LHAVLER	1164.6251
SYT7_RAT	NSLET(0.025)VGT(0.974)PDS(0.001)GR	1331.6317
UN13A_RAT	ALS(1)PTGSSR	874.45084
Q62861_RAT	EQKLS(0.617)T(0.383)DDLK	1175.6034
Q62861_RAT	TEEEGKT(1)DGEGNAEDGAK	1835.7657
DPYL3_RAT	GS(1)PTRPNPPVR	1176.6364
DPYL3_RAT	GMYDGPVFDLT(0.032)T(0.572)T(0.396)PK	1640.7756
CAMKV_RAT	AT(0.917)PAT(0.043)EES(0.02)T(0.02)VPAAQSSAAPAAK	2055.012
CAMKV_RAT	AT(0.324)PAT(0.67)EES(0.003)T(0.003)VPAAQSSAAPAAK	2055.012
Q63094_RAT	AGAY(0.031)DFPS(0.968)PEWDT(0.001)VTPEAK	2079.9426
PTPRN_RAT	AEDS(0.5)S(0.5)EGHEEEVLGGHGEK	1994.8454
PTPRN_RAT	AEDS(0.417)S(0.583)EGHEEEVLGGHGEK	1994.8454
PTPR2_RAT	LEEQADS(0.004)IAGAIQS(0.004)DPVEGS(0.979)QES(0.013)HGR	2709.2478
DLG2_RAT	AIS(1)LEGEPR	970.50836
DLG2_RAT	HYS(1)PVECDK	1133.4812
DLG2_RAT	LCDKPAS(1)PR	1042.523
DLG2_RAT	YQDEEDGPHDHS(1)LPR	1664.7179
PHRF1_RAT	HSGS(0.03)RS(0.97)RGR	998.51182
EI2BE_RAT	AGS(1)PQLDDIR	1070.5356
RTN1_RAT	DKDSEVSTKPEGVHAPNQPS(1)PVEGK	2631.2776
RTN1_RAT	REQDS(1)PPMKPGVLDAIR	1907.9887
RTN1_RAT	SPPVAMETASTGVAAVPDLDHS(0.157)S(0.157)S(0.554)PT(0.132)LK	2835.396
C2D1A_RAT	LANHEEGS(1)DEEEETPKK	2069.9025
HS105_RAT	IES(1)PKLER	970.54475
Q66H15_RAT	T(0.133)T(0.814)AS(0.052)PS(0.001)QVR	945.48796
Q66LH8_RAT	T(0.063)GPVEEAQLS(0.937)VEEK	1514.7464
EF1D_RAT	AT(0.001)APQT(0.049)QHVS(0.951)PMR	1422.7038
EF1D_RAT	KGATPAEDEDNDIDLFGS(1)DEEEEDKEAAR	3309.3917
EF1D_RAT	ATAPQT(0.962)QHVS(0.038)PMR	1422.7038
DEK_RAT	SAAAAPAAEGEDT(0.169)PT(0.793)PPAS(0.038)EKEPEMPGPR	2860.3185
PAIRB_RAT	S(0.036)KS(0.296)EEAHAEDS(0.667)VMDHHFR	2110.9127
SCPD_L_RAT	S(0.422)VS(0.578)NLKPVPVIGSK	1423.8399
WIPI2_RAT	GAYVPS(0.993)S(0.006)PTR	1033.5193
CQ062_RAT	LES(0.999)PS(0.001)ER	816.39775
Q6AYE1_RAT	HIEPELAGRDS(1)PVR	1574.8165
RNPS1_RAT	RFS(1)PPR	758.41876
Q6IE67_RAT	ESLKEEDES(1)DDDNM	1654.6152
Q6IRG3_RAT	GS(0.055)DS(0.944)DSEGDNPEK	1335.5062
Q6IRG7_RAT	FYYSSGS(0.003)S(0.022)S(0.911)PT(0.064)HAK	1517.6787
Q6IRK8_RAT	KLDPAQS(0.671)AS(0.329)R	1071.5673
Q6IRK8_RAT	KLDPAQS(0.064)AS(0.936)RENLEEQGSIALR	2524.3245
Q6IRK8_RAT	S(1)LQQLAEER	1072.5513
PPR1B_RAT	VS(0.718)EHS(0.301)S(0.981)PEEESSPHQR	1820.7925

PPR1B_RAT	VS(0.718)EHS(0.301)S(0.981)PEEESSPHQR	1820.7925
Q6JB17_RAT	ISINQT(0.995)PGT(0.005)K	1057.5768
Q6LBV1_RAT	NVT(0.001)ES(0.117)PS(0.764)FS(0.117)AGDNPHVLYSPEFR	2549.1823
ABCF1_RAT	GAEQGS(1)EEEEKEEK	1448.6267
ABCF1_RAT	QLS(0.001)VPAS(0.999)DEEDEVVPVPR	2062.0219
Q6MG76_RAT	GDAAS(0.083)AS(0.902)PS(0.012)S(0.002)TPLIR	1428.7209
Q6P6G9_RAT	SES(1)PKEPEQLR	1298.6466
Q6P7A8_RAT	AEKPS(0.573)ALNS(0.427)EEEEHEQSTEQDK	2456.0939
Q6P7A8_RAT	AEKPS(0.172)ALNS(0.827)EEEEHEQSTEQDK	2456.0939
Q6P7A8_RAT	AEKPS(0.181)ALNS(0.805)EEEEHEQS(0.537)T(0.477)EQDK	2456.0939
Q6P7A8_RAT	GEES(1)QEQPVS DSHQQQDESGK	2327.9738
ATLA1_RAT	S(0.009)S(0.013)DWS(0.985)S(0.993)EEEEPVRK	1663.7326
ATLA1_RAT	S(0.009)S(0.013)DWS(0.985)S(0.993)EEEEPVRK	1663.7326
ARP19_RAT	VT(0.09)S(0.91)PEKAEEAK	1187.6034
Q719L2_RAT	HPPT(1)PPDPSGGLPR	1423.7208
Q75T81_RAT	RDS(0.904)DMT(0.096)GHIQQPGGR	1653.7642
Q7TP42_RAT	GAPGDHGPEGS(1)GGER	1378.5862
Q7TP17_RAT	KES(1)PPPLVPPAAR	1357.7718
PPM1E_RAT	RPWPQHQCS(0.999)APADLGY(0.001)EGR	2224.0232
MAST1_RAT	AALS(1)PVQEHETGR	1393.695
GPM6A_RAT	S(1)KEEQELHDIHSTR	1707.8176
Q8CH90_RAT	S(1)PPGPPGSR	850.42972
Q8CIT3_RAT	LPT(0.008)S(0.186)S(0.806)PGAPGR	1038.5458
Q8K4Y6_RAT	NRVS(0.999)QS(0.001)GLSPER	1328.6797
Q8K4Y6_RAT	VSQSGLS(1)PER	1058.5356
Q8R5H2_RAT	LAEMYGGGES(1)DKDA	1441.6031
Q8VHJ9_RAT	LPLPDDHDL(1)DR	1391.6681
HDGF_RAT	RAGDMLEDS(1)PK	1217.571
HDGF_RAT	GNAEGS(1)S(1)DEEGKLVIDEPAK	2043.9597
HDGF_RAT	GNAEGS(1)S(1)DEEGKLVIDEPAK	2043.9597
CCG3_RAT	DLS(1)PISK	758.41742
SEPT2_RAT	IYHLPDAES(1)DEDEDKF	1921.8218
PALM_RAT	S(0.997)PGGS(0.002)T(0.001)MMK	894.39392
PALM_RAT	KS(0.216)T(0.785)PVRS(0.353)PGGS(0.508)T(0.138)MMK	1562.7909
PALM_RAT	KS(0.973)T(0.888)PVRS(0.11)PGGS(0.022)T(0.007)MMK	1562.7909
Q923I5_RAT	EIKPSEKPV(1)PK	1337.7555
Q923I5_RAT	KPS(1)DEEFAVR	1176.5775
ACBG1_RAT	ES(0.692)PS(0.308)HGLELSAPEK	1479.7205
ACBG1_RAT	ES(0.469)PS(0.529)HGLELS(0.002)APEK	1479.7205
P4K2A_RAT	VAAAGS(0.005)GPS(0.995)PPCSPGHDR	1718.7795
PP14A_RAT	GPGGS(1)PSGLQK	983.50361
PP14A_RAT	QPGFPQPS(0.006)PS(0.032)DDPS(0.069)LS(0.892)PR	1907.9014
Q99PA1_RAT	MLPHAPGVQMQAIPEDAVHEDS(1)GDEDGEDPDKR	3584.5784

Q99PJ8_RAT	EKDPHRPLS(1)PTER	1560.8009
Q99PR9_RAT	DAS(1)PVGVK	771.41267
NHRF1_RAT	EALVEPASES(1)PRPALAR	1791.9479
HNRPD_RAT	NEEDEGHS(0.037)NS(0.587)S(0.376)PR	1456.5815
Q9JJ76_RAT	IQQAGNT(0.022)S(0.978)PR	1070.5469
S1PR5_RAT	DGMDTSCST(0.003)GS(0.997)PGAATANR	1854.7472
S1PR5_RAT	S(0.556)PS(0.444)AVGPSGGGLR	1140.5887
Q9JLT5_RAT	LNAT(0.001)T(0.011)S(0.988)LEQDK	1218.6092
S38A1_RAT	RS(0.975)LT(0.014)NS(0.011)HLEK	1183.6309
Q9QXG3_RAT	HSAILAS(1)PNPDEK	1377.6888
Q9QXG3_RAT	TAKDS(1)DDDDVTVTVDR	1865.8127
SRCN1_RAT	KDS(0.814)GS(0.166)S(0.017)S(0.003)VFAESPGGK	1538.7213
SRCN1_RAT	DS(0.006)GS(0.029)S(0.029)S(0.029)VFAES(0.908)PGGK	1410.6263
SRCN1_RAT	FRQS(1)LPLSR	1102.6247
SRCN1_RAT	RGS(1)DELTVPR	1128.5887
SRCN1_RAT	S(1)PNTAILIK	955.57023
YTDC1_RAT	GIS(1)PIVFDR	1002.5498
CHSP1_RAT	DRS(1)PS(1)PLR	926.49338
CHSP1_RAT	DRS(1)PS(1)PLR	926.49338
CHSP1_RAT	GNVVPS(1)PLPTR	1135.635
SHAN1_RAT	ALT(0.025)AS(0.975)PPAAR	953.52943
SHAN1_RAT	EQDVVPFQES(1)PK	1401.6776
CNKR2_RAT	GS(0.424)ES(0.576)PNSFLDQEYR	1627.7114
CNKR2_RAT	LGDS(1)LQDLR	1178.5932
CNKR2_RAT	QEV(0.011)GS(0.23)S(0.731)AVS(0.028)PIRK	1457.7838
CNKR2_RAT	QEV(0.011)GS(0.23)S(0.731)AVS(0.028)PIRK	1329.6888
LYRIC_RAT	SQEPIS(0.001)NDQKDS(0.999)DDDKEK	2076.9084
VDAC1_RAT	LTFDSSFS(1)PNTGK	1399.662
R9PXR4_RAT	AS(0.999)PALGS(0.001)GPDGSGDSLEMSSDR	2204.9856
R9PXV8_RAT	RPAAAAAAGSAS(1)PR	1252.6636
X4YHC6_RAT	LDNT(0.001)PAS(0.999)PPR	1066.5407

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