

Supplementary Table 2. List of proteins found differentially expressed in brain of female flies supplemented with M0.25%. compared to CTRL flies.

Spot n.	ID	Gene	Description	Cov. (%)	#Pept.	#Uniq.	MW	pI	Ratio Meltec/Ctrl	Anova (p-value)
a2065	Q9W058	SCOT_DROME	Succinyl-CoA:3-ketoacid-coenzA transferase, mit	7	3	3	54905	6.91	1.28	2,87E-06
3298	P06754	TPM1_DROME	Tropomyosin-1, isoforms 9A/A/B	10	4	4	39325	4.92	0.74	1,04E-05
2027	Q9NJH0	EF1G_DROME	Elongation factor 1 -gamma	6	2	2	48968	6.71	1.23	1,38E-04
2027	P54399	PDI_DROME	Protein disulfide isomerase	10	4	4	55781	4.72	1.23	1,38E-04
2124	Q05825	ATPB_DROME	ATP synthase subunit beta, mitochondrial	34	10	10	54108	5.14	0.74	1,53E-04
1790	P08171	EST6_DROME	Esterase-6	14	7	7	61125	5.57	0.88	1,91E-04
2207	Q23997	C5210_DROME	Imaginal disk growth factor 6	8	3	3	50354	7.99	1.27	3,01E-04
2168	P35381	ATPA_DROME	ATP synthase subunit alpha, mitochondrial	25	8	8	54553	8.22	1.33	3,04E-04
2783	P16378	GNAO_DROME	G protein alpha o subunit	6	2	2	40476	5.37	1.23	3,30E-04
2467	Q9I758	PUR6_DROME	Multifunctional protein ADE2	13	5	5	47282	8.30	1.11	3,68E-04
2467	Q9W401	CISY_DROME	Probable Cytrate syntase, mitochondrial	45	32	32	51574	8.89	1.11	3,68E-04
2467	P19107	ARRB_DROME	Phosrestin-1	22	8	8	45029	8.77	1.11	3,68E-04
1486	P11147	HSP7D_DROME	Heat shock 70kDa protein cognate 4	15	10	3	71132	5.35	1.28	3,94E-04
1975	P54385	DHE3_DROME	Glutamate dehydrogenase, mitochondrial	9	4	4	56620	7.02	1.32	6,16E-04
1829	P46824	KLC_DROME	Kinesin light chain	10	5	5	58044	5.88	1.35	7,18E-04
1317	P91928	MIC60_DROME	Micos complex subunit Mic60	6	5	5	82014	8.99	1.21	7,20E-04
1814	P11147	HSP7D_DROME	Heat shock 70 kDa protein cognate 4	4	3	3	71142	5.35	0.79	7,25E-04
3295	P92177	1433E_DROME	14-3-3 protein epsilon	9	3	3	29799	4.68	0.91	9,51E-04
2230	Q02748	IF4A_DROME	Eukaryotic initiation factor 4A	9	4	4	45879	5.43	1.31	0,001
2359	Q01604	PGK_DROME	Phosphoglycerate kinase	13	5	5	43862	7.01	1.56	0,001
1401	Q9VUK8	GARS_DROME	Glycine--tRNA ligase	5	4	4	85192	6.01	1.17	0,002
1815	P17336	CATA_DROME	Catalase	6	2	2	57150	8.39	1.53	0,002
2887	P09491	TPM2_DROME	Tropomyosin-2	9	3	3	32981	4.77	0.83	0,002
898	P13395	SPTCA_DROME	Spectrin alpha-chain	3	6	6	278031	5.08	0.85	0,003
1676	P17336	CATA_DROME	Catalase	5	2	2	57150	8.39	1.2	0,003
1468	Q9VCA5	SYFB_DROME	Phenylalanine-tRNA ligase subunit beta	6	3	3	65778	5.73	1.52	0,004
1853	P35381	ATPA_DROME	ATP synthase subunit alpha, mitochondrial	4	2	2	59442	8.22	1.34	0,004
1964	P54385	DHE3_DROME	Glutamate dehydrogenase, mitochondrial	16	7	7	56620	7.02	1.23	0,004
2795	P07764	ALF_DROME	Fructose-bisphosphate aldolase	6	2	2	39047	6.97	1.36	0,004