

Table S5 Mass data of proteins identified with label free shotgun proteomics

a #Alt. Proteins; **b** Scores; **c** #Peptides; **d** SC [%]; **e** RMS90 [ppm]; **f** Rank; **g** Median(Controls:GLP1); **h** #(Controls:GLP1); **i** CV [%](Controls:GLP1); **l** Median(Controls:Palmitate); **m** #(Controls:Palmitate) ; **n** CV [%](Controls:Palmitate); **o** Median(Controls:GLP1 + Palmitate); **p** #(Controls:GLP1 + Palmitate); **q** CV [%](Controls:GLP1 + Palmitate)

OK	Accession	Protein	MW [kDa]	pI	a	b	c	d	e	f	g	h	i	l	m	n	o	p	q
true	GRP78_RAT	78 kDa glucose-regulated protein OS=Rattus norvegicus GN=Hspa5 PE=1 SV=1	72.3	4.9	1	1672.6 (M:1672.6)	22	39	1.48	1	1.16	6	20.53	1.18	9	9.56	1.24	10	13.52
true	ENPL_RAT	Endoplasmic reticulum protein OS=Rattus norvegicus GN=Hsp90b1 PE=1 SV=2	92.7	4.6	1	1253.0 (M:1253.0)	23	29	3.34	2	0.85	8	33.34	1.19	6	39.58	1.18	10	28.11
true	GRP75_RAT	Stress-70 protein, mitochondrial OS=Rattus norvegicus GN=Hspa9 PE=1 SV=3	73.8	5.9	1	1138.8 (M:1138.8)	17	28.7	1.18	3	1.21	5	7.62	0.78	1		1.1	8	8.04
true	PDIA3_RAT	Protein disulfide-isomerase A3 OS=Rattus norvegicus GN=Pdia3 PE=1 SV=2	56.6	5.8	1	1035.4 (M:1035.4)	16	35.2	2.84	4	0.94	3	17.22	1.15	4	26.62	1.25	4	7.86
true	ACON_RAT	Aconitate hydratase, mitochondrial OS=Rattus norvegicus GN=Aco2 PE=1 SV=2	85.4	8.7	1	983.8 (M:983.8)	19	31.4	2.72	5	0.89	2	23.6	1.21	2	9.25	0.89	3	32.87
true	CH60_RAT	60 kDa heat shock protein, mitochondrial OS=Rattus norvegicus GN=Hspd1 PE=1 SV=1	60.9	5.8	1	906.9 (M:906.9)	13	32.5	3.26	6	1.05	5	13.15	1.01	2	32.54	1.01	4	10.37
true	ATPA_RAT	ATP synthase subunit alpha, mitochondrial OS=Rattus norvegicus GN=Atp5a1 PE=1 SV=2	59.7	9.7	1	826.0 (M:826.0)	12	26.2	4.09	7	1.24	3	8.26	1.12	3	3.75	1.14	1	
true	MDHM_RAT	Malate dehydrogenase, mitochondrial OS=Rattus norvegicus GN=Mdh2 PE=1 SV=2	35.7	9.8	1	803.8 (M:803.8)	12	46.4	3.75	8	1.22	4	17.88	0.82	3	14.66	1.11	8	7.11
true	PDIA6_RAT	Protein disulfide-isomerase A6 OS=Rattus norvegicus GN=Pdia6 PE=1 SV=2	48.1	4.9	1	766.4 (M:766.4)	10	31.4	0.81	9				1.16	5	6.33	1.37	6	8.26
true	VDAC1_RAT	Voltage-dependent anion-selective channel protein 1 OS=Rattus norvegicus GN=Vdac1 PE=1 SV=4	30.7	9.2	1	727.8 (M:727.8)	11	47.3	1.64	10				1.16	2	3.57			
true	DHE3_RAT	Glutamate dehydrogenase 1, mitochondrial OS=Rattus norvegicus GN=Glud1 PE=1 SV=2	61.4	8.8	1	721.2 (M:721.2)	11	23.7	1.99	11	0.8	1		1.48	1		0.89	3	30.5
true	ATPB_RAT	ATP synthase subunit beta, mitochondrial OS=Rattus norvegicus GN=Atp5b PE=1 SV=2	56.3	5.1	1	670.0 (M:670.0)	10	22.1	2.24	12	1.12	3	5.96	0.77	4	62.75	0.96	3	16.44
true	ADT1_RAT	ADP/ATP translocase 1 OS=Rattus norvegicus GN=Slc25a4 PE=1 SV=3	33	10.3	2	651.2 (M:651.2)	14	38.9	4.24	13	0.63	2	61.73	1.21	6	70.35	0.32	2	46.82
true	HYOU1_RAT	Hypoxia up-regulated protein 1 OS=Rattus norvegicus GN=Hyou1 PE=1 SV=1	111.2	5.1	1	642.4 (M:642.4)	11	15.9	3.65	14	0.75	1		1.41	2	16.71	1.35	3	1.88
true	PHB_RAT	Prohibitin OS=Rattus norvegicus GN=Phb PE=1 SV=1	29.8	5.5	1	599.7 (M:599.7)	9	33.8	2.09	15	1.4	1		0.7	1		1.32	1	

true	ECHA_RAT	Trifunctional enzyme subunit alpha, mitochondrial OS=Rattus norvegicus GN=Hadha PE=1 SV=2	82.6	9.8	1	599.1 (M:599.1)	10	21.5	2.42	16	1.03	1				1.05	2	0.54	
true	RPN1_RAT	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 1 OS=Rattus norvegicus GN=Rpn1 PE=2 SV=1	68.3	6	1	593.9 (M:593.9)	11	21.5	2.74	17	0.9	3	15.88	1.43	2	2.57	0.86	2	22.5
true	AATM_RAT	Aspartate aminotransferase, mitochondrial OS=Rattus norvegicus GN=Got2 PE=1 SV=2	47.3	9.8	1	589.0 (M:589.0)	7	20.9	2.33	18	1.15	4	5.07	1.69	3	31.08	1.07	6	10.02
true	AT1A1_RAT	Sodium/potassium-transporting ATPase subunit alpha-1 OS=Rattus norvegicus GN=Atp1a1 PE=1 SV=1	113	5.2	3	581.2 (M:581.2)	8	11.4	1.87	19	0.76	1							
true	RPN2_RAT	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 2 OS=Rattus norvegicus GN=Rpn2 PE=2 SV=2	69	5.6	1	560.9 (M:560.9)	11	26	2.73	20		0		0.82	1			0	
true	HSP7C_RAT	Heat shock cognate 71 kDa protein OS=Rattus norvegicus GN=Hspa8 PE=1 SV=1	70.8	5.2	4	560.3 (M:560.3)	8	16.6	0.92	21	0.99	2	16.53	1.21	2	17.89	1.05	2	5.06
true	LPPRC_RAT	Leucine-rich PPR motif-containing protein, mitochondrial OS=Rattus norvegicus GN=Lrpprc PE=1 SV=1	156.6	6.2	1	532.2 (M:532.2)	10	9.9	1.58	22	1.11	2	2.21	1.11	1		1.13	2	8.03
true	CALX_RAT	Calnexin OS=Rattus norvegicus GN=Canx PE=1 SV=1	67.2	4.3	1	524.4 (M:524.4)	9	18.4	1.21	23	0.62	1		1.15	3	29.48	0.57	1	
true	AT2A2_RAT	Sarcoplasmic/endoplasmic reticulum calcium ATPase 2 OS=Rattus norvegicus GN=Atp2a2 PE=1 SV=1	114.7	5.2	2	484.5 (M:484.5)	10	12.2	1.41	24	0.77	1		1.19	2	8.13	0.68	1	
true	ACTB_RAT	Actin, cytoplasmic 1 OS=Rattus norvegicus GN=Actb PE=1 SV=1	41.7	5.2	6	480.1 (M:480.1)	8	23.7	2.52	25	0.73	1		0.59	2	12.21	0.56	3	6.86
true	MYH9_RAT	Myosin-9 OS=Rattus norvegicus GN=Myh9 PE=1 SV=3	226.2	5.4	3	467.7 (M:467.7)	7	5.6	1	26				0.87	1		0.79	2	1.11
true	CALR_RAT	Calreticulin OS=Rattus norvegicus GN=Calr PE=1 SV=1	48	4.2	1	465.8 (M:465.8)	7	22.6	0.69	27	0.66	1		1.4	1		1.49	3	22.16
true	VDAC2_RAT	Voltage-dependent anion-selective channel protein 2 OS=Rattus norvegicus GN=Vdac2 PE=1 SV=2	31.7	8.7	1	442.6 (M:442.6)	6	27.8	2.77	28	0.65	1		0.81	2	16.23	0.32	1	
true	NDUS1_RAT	NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial OS=Rattus norvegicus GN=Ndufs1 PE=1 SV=1	79.4	5.6	1	441.0 (M:441.0)	7	16.4	1.94	29	1.09	2	1.88	1.06	2	2.13	1.14	2	3.77
true	PDIA1_RAT	Protein disulfide-isomerase OS=Rattus norvegicus GN=P4hb PE=1 SV=2	56.9	4.7	1	426.1 (M:426.1)	8	14.5	3.05	30	0.99	2	24.44	1.24	2	3.93	1.51	2	8.9
true	LRC59_RAT	Leucine-rich repeat-containing protein 59 OS=Rattus norvegicus GN=Lrc59 PE=1 SV=1	34.8	10.4	1	408.5 (M:408.5)	7	21.5	1.86	31				1.65	1				
true	IDHP_RAT	Isocitrate dehydrogenase [NADP],	50.9	9.6	1	405.2	6	16.2	2.05	32							1.25	1	

		mitochondrial OS=Rattus norvegicus GN=Idh2 PE=1 SV=2				(M:405.2)													
true	IMMT_RAT	Mitochondrial inner membrane protein (Fragment) OS=Rattus norvegicus GN=Immt PE=1 SV=1	67.1	5.6	1	404.8 (M:404.8)	7	16.7	0.95	33		0					1.38	1	
true	AT1A3_RAT	Sodium/potassium-transporting ATPase subunit alpha-3 OS=Rattus norvegicus GN=Atp1a3 PE=1 SV=2	111.6	5.1	2	398.9 (M:398.9)	6	8.9	3.15	34	0.76	1							
true	G3P_RAT	Glyceraldehyde-3-phosphate dehydrogenase OS=Rattus norvegicus GN=Gapdh PE=1 SV=3	35.8	9	2	386.3 (M:386.3)	5	22.2	1.83	35	1.19	3	10.46	0.67	3	10.26	1.8	2	18.89
true	HS90B_RAT	Heat shock protein HSP 90-beta OS=Rattus norvegicus GN=Hsp90ab1 PE=1 SV=4	83.2	4.8	2	379.0 (M:379.0)	6	9.9	1.94	36				1.24	3	45.05	0.75	2	30.85
true	GPDM_RAT	Glycerol-3-phosphate dehydrogenase, mitochondrial OS=Rattus norvegicus GN=Gpd2 PE=1 SV=1	80.9	6.2	1	370.3 (M:370.3)	8	14	2.37	37									
true	AOFB_RAT	Amine oxidase [flavin-containing] B OS=Rattus norvegicus GN=Maob PE=1 SV=3	58.4	9.3	1	341.9 (M:341.9)	6	15.6	2.34	38	1.32	1		1.16	1		1.74	1	
true	CISY_RAT	Citrate synthase, mitochondrial OS=Rattus norvegicus GN=Cs PE=1 SV=1	51.8	9.2	1	320.4 (M:320.4)	5	12.2	4.28	39							1.25	1	
true	INS2_RAT	Insulin-2 OS=Rattus norvegicus GN=Ins2 PE=1 SV=1	12.3	5.6	1	301.5 (M:301.5)	3	47.3	1.01	40	0.7	1		0.77	1		1.22	1	
true	AT2A3_RAT	Sarcoplasmic/endoplasmic reticulum calcium ATPase 3 OS=Rattus norvegicus GN=Atp2a3 PE=1 SV=2	116.2	5.5	1	299.0 (M:299.0)	4	5.3	2.17	41									
true	SPTN1_RAT	Spectrin alpha chain, non-erythrocytic 1 OS=Rattus norvegicus GN=Sptan1 PE=1 SV=2	284.5	5.1	1	294.1 (M:294.1)	3	2	1.8	42									
true	VDAC3_RAT	Voltage-dependent anion-selective channel protein 3 OS=Rattus norvegicus GN=Vdac3 PE=1 SV=2	30.8	9.6	1	284.9 (M:284.9)	4	20.8	3.47	43	0.82	1		0.86	3	20.36			
true	TBA1A_RAT	Tubulin alpha-1A chain OS=Rattus norvegicus GN=Tuba1a PE=1 SV=1	50.1	4.8	6	279.7 (M:279.7)	4	15.3	1.6	44	0.85	2	0.43	0.64	3	4.11	0.69	2	4.87
true	ATPO_RAT	ATP synthase subunit O, mitochondrial OS=Rattus norvegicus GN=Atp5o PE=1 SV=1	23.4	10.5	1	279.5 (M:279.5)	4	27.2	2.8	45				0.99	3	65.02	0.87	1	
true	EFTU_RAT	Elongation factor Tu, mitochondrial OS=Rattus norvegicus GN=Tufm PE=1 SV=1	49.5	7.9	1	278.8 (M:278.8)	5	16.4	1.18	46	1.39	1	0		0		1.06	1	0
true	RAB7A_RAT	Ras-related protein Rab-7a OS=Rattus norvegicus GN=Rab7a PE=1 SV=2	23.5	7.2	1	269.7 (M:269.7)	6	36.2	1.89	47							1.05	1	0
true	HCDH_RAT	Hydroxyacyl-coenzyme A dehydrogenase, mitochondrial OS=Rattus norvegicus	34.4	9.5	1	268.5 (M:268.5)	4	19.1	489.75	48	1.13	1	0				1.14	1	0

		GN=Hadh PE=2 SV=1																	
true	QCR2_RAT	Cytochrome b-c1 complex subunit 2, mitochondrial OS=Rattus norvegicus GN=Uqerc2 PE=1 SV=2	48.4	9.6	1	262.5 (M:262.5)	4	12.8	821.02	49				1.23	2	6.79	1.15	2	0.69
true	INS1_RAT	Insulin-1 OS=Rattus norvegicus GN=Ins1 PE=1 SV=1	12.4	5.6	1	258.8 (M:258.8)	3	47.3	0.52	50	0.7	1		0.47	1		1.22	1	
true	H4_RAT	Histone H4 OS=Rattus norvegicus GN=Hist1h4b PE=1 SV=2	11.4	11.8	1	256.4 (M:256.4)	4	38.8	2.59	51	1.37	3	4.92		0		1.34	3	19.48
true	PERI_RAT	Peripherin OS=Rattus norvegicus GN=Prph PE=1 SV=1	53.5	5.2	1	243.9 (M:243.9)	7	16.9	1.4	52							0.67	1	0
true	QCR1_RAT	Cytochrome b-c1 complex subunit 1, mitochondrial OS=Rattus norvegicus GN=Uqrcr1 PE=1 SV=1	52.8	5.5	1	230.2 (M:230.2)	5	14.6	2.56	53									
true	PPIB_RAT	Peptidyl-prolyl cis-trans isomerase B OS=Rattus norvegicus GN=Ppib PE=2 SV=3	23.8	10	1	228.2 (M:228.2)	4	22.7	2.05	54				1.13	2	3.88	1.19	1	0
true	CH10_RAT	10 kDa heat shock protein, mitochondrial OS=Rattus norvegicus GN=Hspe1 PE=1 SV=3	10.9	9.4	1	226.3 (M:226.3)	4	42.2	5.48	55									
true	STML2_RAT	Stomatin-like protein 2, mitochondrial OS=Rattus norvegicus GN=Stoml2 PE=1 SV=1	38.4	9.4	1	223.6 (M:223.6)	5	19.5	3.75	56	1.41	1		0.65	1		1.15	2	4.6
true	GLSK_RAT	Glutaminase kidney isoform, mitochondrial OS=Rattus norvegicus GN=Gls PE=1 SV=2	74	9	1	219.8 (M:219.8)	5	10.2	4.89	57									
true	GBB2_RAT	Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-2 OS=Rattus norvegicus GN=Gnb2 PE=1 SV=4	37.3	5.6	3	219.0 (M:219.0)	3	12.1	3.29	58									
true	KCRU_RAT	Creatine kinase U-type, mitochondrial OS=Rattus norvegicus GN=Ckmt1 PE=1 SV=1	47	9.5	2	217.1 (M:217.1)	4	15.1	2.5	59	0.8	1		1.13	2	1.44	1.08	1	
true	PDIA4_RAT	Protein disulfide-isomerase A4 OS=Rattus norvegicus GN=Pdia4 PE=1 SV=2	72.7	5	1	196.1 (M:196.1)	4	7.3	2.42	60	0.88	1		1.28	2	9.67	1.35	1	0
true	RAB3D_RAT	GTP-binding protein Rab-3D OS=Rattus norvegicus GN=Rab3d PE=1 SV=2	24.3	4.6	9	192.0 (M:192.0)	4	20.5	4.23	61				0.68	1		0.71	2	0.61
true	DHSA_RAT	Succinate dehydrogenase [ubiquinone] flavoprotein subunit, mitochondrial OS=Rattus norvegicus GN=Sdha PE=1 SV=1	71.6	6.8	1	191.4 (M:191.4)	3	4	4.04	62									
true	4F2_RAT	4F2 cell-surface antigen heavy chain OS=Rattus norvegicus GN=Slc3a2 PE=1 SV=1	58	5.2	1	182.5 (M:182.5)	4	10.4	1.76	63									
true	HNRPK_RAT	Heterogeneous nuclear ribonucleoprotein K OS=Rattus norvegicus GN=Hnmpk PE=1 SV=1	50.9	5.3	1	181.3 (M:181.3)	4	11	1.56	64							1.07	1	

true	RL12_RAT	60S ribosomal protein L12 OS=Rattus norvegicus GN=Rpl12 PE=2 SV=1	17.8	10.3	1	180.1 (M:180.1)	3	24.8	3.71	65								
true	PHB2_RAT	Prohibitin-2 OS=Rattus norvegicus GN=Phb2 PE=1 SV=1	33.3	10.2	1	179.4 (M:179.4)	3	12.4	3.17	66			0.88	1		0.76	1	
true	TERA_RAT	Transitional endoplasmic reticulum ATPase OS=Rattus norvegicus GN=Vcp PE=1 SV=3	89.3	5	1	176.8 (M:176.8)	3	5.8	4.78	67								
true	LMAN1_RAT	Protein ERGIC-53 OS=Rattus norvegicus GN=Lman1 PE=1 SV=1	57.9	5.9	1	174.9 (M:174.9)	3	8.3	168.6	68								
true	NDUV2_RAT	NADH dehydrogenase [ubiquinone] flavoprotein 2, mitochondrial OS=Rattus norvegicus GN=Ndufv2 PE=1 SV=2	27.4	6.3	1	174.6 (M:174.6)	3	17.3	1.5	69						1.2	1	0
true	MPCP_RAT	Phosphate carrier protein, mitochondrial OS=Rattus norvegicus GN=Slc25a3 PE=1 SV=1	39.4	10.1	1	174.2 (M:174.2)	3	8.1	6.76	70								
true	LONM_RAT	Lon protease homolog, mitochondrial OS=Rattus norvegicus GN=Lonp1 PE=2 SV=1	105.7	6.2	1	172.2 (M:172.2)	3	3.8	3.55	71			1.18	2	0			
true	EF1A1_RAT	Elongation factor 1-alpha 1 OS=Rattus norvegicus GN=Eef1a1 PE=1 SV=1	50.1	9.7	2	169.1 (M:169.1)	3	8.7	3.48	72			0.78	1	0	0.78	1	
true	RLA2_RAT	60S acidic ribosomal protein P2 OS=Rattus norvegicus GN=Rplp2 PE=1 SV=2	11.7	4.2	1	165.6 (M:165.6)	3	50.4	1.71	73								
true	IDH3A_RAT	Isocitrate dehydrogenase [NAD] subunit alpha, mitochondrial OS=Rattus norvegicus GN=Idh3a PE=1 SV=1	39.6	6.5	1	164.9 (M:164.9)	2	6	1.48	74	1.13	1	0					
true	ETFB_RAT	Electron transfer flavoprotein subunit beta OS=Rattus norvegicus GN=Etfb PE=2 SV=3	27.7	8.9	1	163.1 (M:163.1)	2	11.4	1.15	75						1.1	1	0
true	GNAO_RAT	Guanine nucleotide-binding protein G(o) subunit alpha OS=Rattus norvegicus GN=Gnao1 PE=1 SV=2	40	5.2	6	163.0 (M:163.0)	2	7.3	3.69	76			0.77	1	0			
true	ATPG_RAT	ATP synthase subunit gamma, mitochondrial OS=Rattus norvegicus GN=Atp5c1 PE=1 SV=2	30.2	9.4	1	162.7 (M:162.7)	2	8.1	3.19	77			0.78	1				
true	ERP29_RAT	Endoplasmic reticulum resident protein 29 OS=Rattus norvegicus GN=Erp29 PE=1 SV=2	28.6	6.3	1	162.5 (M:162.5)	1	5.8	0.56	78			1.12	1	0	1.39	1	0
true	EF2_RAT	Elongation factor 2 OS=Rattus norvegicus GN=Eef2 PE=1 SV=4	95.2	6.4	1	159.0 (M:159.0)	3	4.4	5.88	79								
true	RAB2A_RAT	Ras-related protein Rab-2A OS=Rattus norvegicus GN=Rab2a PE=1 SV=1	23.5	6.1	1	158.4 (M:158.4)	1	6.6	0.67	80								
true	ALDOA_RAT	Fructose-bisphosphate aldolase A OS=Rattus norvegicus GN=Aldoa PE=1 SV=2	39.3	9.2	1	157.7 (M:157.7)	3	12.4	253.54	81								
true	BASP1_RAT	Brain acid soluble protein 1 OS=Rattus norvegicus GN=Basp1 PE=1 SV=2	21.8	4.3	1	157.3 (M:157.3)	2	16.8	331.31	82								
true	PYC_RAT	Pyruvate carboxylase, mitochondrial	129.7	6.4	1	156.8	2	2	639.86	83								

		OS=Rattus norvegicus GN=Pc PE=1 SV=2				(M:156.8)													
true	VGF_RAT	Neurosecretory protein VGF OS=Rattus norvegicus GN=Vgf PE=1 SV=3	68.1	4.7	1	153.2 (M:153.2)	1	1.8	3.86	84									
true	CLH1_RAT	Clathrin heavy chain 1 OS=Rattus norvegicus GN=Cltc PE=1 SV=3	191.5	5.4	1	152.9 (M:152.9)	3	2.7	1.12	85			0.84	1	0				
true	ECHB_RAT	Trifunctional enzyme subunit beta, mitochondrial OS=Rattus norvegicus GN=Hadhb PE=1 SV=1	51.4	10.1	1	152.8 (M:152.8)	3	6.9	3.03	86	1.25	1	1.02	1		1.32	1	0	
true	GNAI2_RAT	Guanine nucleotide-binding protein G(i) subunit alpha-2 OS=Rattus norvegicus GN=Gnai2 PE=1 SV=3	40.5	5.2	1	152.1 (M:152.1)	3	13	4.11	87			0.77	1	0				
true	RLA0_RAT	60S acidic ribosomal protein P0 OS=Rattus norvegicus GN=Rplp0 PE=1 SV=2	34.2	5.9	1	151.3 (M:151.3)	2	13.6	0.8	88									
true	RL27A_RAT	60S ribosomal protein L27a OS=Rattus norvegicus GN=Rpl27a PE=1 SV=3	16.6	11.9	1	150.8 (M:150.8)	4	22.3	5.58	89									
true	1433Z_RAT	14-3-3 protein zeta/delta OS=Rattus norvegicus GN=Ywhaz PE=1 SV=1	27.8	4.6	1	148.6 (M:148.6)	3	20.8	1.67	90			0.82	1	0	0.79	1	0	
true	PRDX1_RAT	Peroxiredoxin-1 OS=Rattus norvegicus GN=Prdx1 PE=1 SV=1	22.1	9.2	1	146.5 (M:146.5)	4	18.1	5.58	91									
true	IVD_RAT	Isovaleryl-CoA dehydrogenase, mitochondrial OS=Rattus norvegicus GN=Ivd PE=1 SV=2	46.4	8	1	146.4 (M:146.4)	3	8.3	3	92			1.01	1	0	1.02	1	0	
true	H2AJ_RAT	Histone H2A.J OS=Rattus norvegicus GN=H2afj PE=2 SV=1	14	11.5	9	146.2 (M:146.2)	2	21.7	5.15	93	1.29	1	0	0.55	1	0			
true	PGRC1_RAT	Membrane-associated progesterone receptor component 1 OS=Rattus norvegicus GN=Pgrmc1 PE=1 SV=3	21.6	4.4	1	145.5 (M:145.5)	1	10.3	0.43	94						1.09	1	0	
true	OST48_RAT	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase 48 kDa subunit OS=Rattus norvegicus GN=Ddost PE=2 SV=1	48.9	5.6	1	145.2 (M:145.2)	3	7.7	4.49	95	1.35	1	0.95	2	15.32	1	1		
true	CP51A_RAT	Lanosterol 14-alpha demethylase OS=Rattus norvegicus GN=Cyp51a1 PE=2 SV=1	56.7	9.3	1	144.9 (M:144.9)	3	8.7	0.86	96									
true	ATP5J_RAT	ATP synthase-coupling factor 6, mitochondrial OS=Rattus norvegicus GN=Atp5j PE=1 SV=1	12.5	9.9	1	143.8 (M:143.8)	3	29.6	2.41	97	1.08	2	29.3	1.35	1		1.16	2	65.77
true	STXB1_RAT	Syntaxin-binding protein 1 OS=Rattus norvegicus GN=Stxbp1 PE=1 SV=1	67.5	6.5	1	142.6 (M:142.6)	3	5.9	2.07	98			1.07	1	0				
true	ERLN2_RAT	Erlin-2 OS=Rattus norvegicus GN=Erlin2 PE=1 SV=1	37.7	5.5	1	142.6 (M:142.6)	3	11.5	2.28	99									
true	AT5F1_RAT	ATP synthase F(0) complex subunit B1, mitochondrial OS=Rattus norvegicus GN=Atp5f1 PE=1 SV=1	28.9	9.9	1	141.4 (M:141.4)	3	10.9	5.48	100									
true	ACLY_RAT	ATP-citrate synthase OS=Rattus norvegicus	120.6	7.1	1	141.3	3	3.7	1.33	101									

		GN=Acly PE=1 SV=1				(M:141.3)													
true	ESYT1_RAT	Extended synaptotagmin-1 OS=Rattus norvegicus GN=Esyt1 PE=2 SV=1	121.1	5.4	1	140.8 (M:140.8)	3	3.6	3.48	102	1.12	1	0						
true	SYTL4_RAT	Synaptotagmin-like protein 4 OS=Rattus norvegicus GN=Sytl4 PE=1 SV=1	75.9	9.8	1	138.9 (M:138.9)	4	6.4	5.25	103									
true	RAB1B_RAT	Ras-related protein Rab-1B OS=Rattus norvegicus GN=Rab1b PE=1 SV=1	22.1	5.4	8	138.7 (M:138.7)	3	18.9	2.55	104				0.68	2	0.59	0.71	1	
true	DNJC3_RAT	DnaJ homolog subfamily C member 3 OS=Rattus norvegicus GN=Dnajc3 PE=2 SV=3	57.5	5.6	1	138.3 (M:138.3)	2	3.8	1652.75	105									
true	TBB5_RAT	Tubulin beta-5 chain OS=Rattus norvegicus GN=Tubb5 PE=1 SV=1	49.6	4.6	4	137.1 (M:137.1)	3	11.5	1.72	106				0.73	1	0	0.84	1	0
true	RAP1B_RAT	Ras-related protein Rap-1b OS=Rattus norvegicus GN=Rap1b PE=2 SV=2	20.8	5.5	2	135.1 (M:135.1)	3	15.8	4.33	107							0.69	2	4.5
true	RL40_RAT	Ubiquitin-60S ribosomal protein L40 OS=Rattus norvegicus GN=Uba52 PE=1 SV=2	14.7	10.7	4	133.8 (M:133.8)	2	19.5	3.89	108				0.6	1	0	0.77	1	0
true	RL30_RAT	60S ribosomal protein L30 OS=Rattus norvegicus GN=Rpl30 PE=3 SV=2	12.8	10.2	1	133.3 (M:133.3)	2	24.3	1.43	109				0.71	1	0			
true	ETFA_RAT	Electron transfer flavoprotein subunit alpha, mitochondrial OS=Rattus norvegicus GN=Etfa PE=1 SV=4	34.9	8.6	1	130.1 (M:130.1)	2	9.9	0.57	110									
true	COX41_RAT	Cytochrome c oxidase subunit 4 isoform 1, mitochondrial OS=Rattus norvegicus GN=Cox4i1 PE=1 SV=1	19.5	9.9	1	129.7 (M:129.7)	3	19.5	1.99	111	1.23	2	10.11	1.04	2	22.87	1.58	1	
true	C1QBP_RAT	Complement component 1 Q subcomponent-binding protein, mitochondrial OS=Rattus norvegicus GN=C1qbp PE=1 SV=2	31	4.8	1	127.6 (M:127.6)	1	7.2	0.37	112							1.11	1	0
true	SND1_RAT	Staphylococcal nuclease domain-containing protein 1 OS=Rattus norvegicus GN=Snd1 PE=2 SV=1	101.9	6.8	1	127.0 (M:127.0)	1	0.8	7.86	113									
true	SEP11_RAT	Septin-11 OS=Rattus norvegicus GN=Sept11 PE=1 SV=1	49.7	6.2	1	125.9 (M:125.9)	1	4.4	512.29	114									
true	TCPG_RAT	T-complex protein 1 subunit gamma OS=Rattus norvegicus GN=Cct3 PE=1 SV=1	60.6	6.2	1	123.3 (M:123.3)	3	6.1	2.13	115	0.85	1	0	0.88	1	0			
true	RL13_RAT	60S ribosomal protein L13 OS=Rattus norvegicus GN=Rpl13 PE=1 SV=2	24.3	11.5	1	122.9 (M:122.9)	3	14.7	517.03	116									
true	ECHM_RAT	Enoyl-CoA hydratase, mitochondrial OS=Rattus norvegicus GN=Echs1 PE=1 SV=1	31.5	9.4	1	122.7 (M:122.7)	3	17.6	2.36	117									
true	HCD2_RAT	3-hydroxyacyl-CoA dehydrogenase type-2 OS=Rattus norvegicus GN=Hsd17b10 PE=1 SV=3	27.2	9.7	1	122.3 (M:122.3)	1	8.8	0.04	118				1.15	1	0	1.12	1	0

true	GBB1_RAT	Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-1 OS=Rattus norvegicus GN=Gnb1 PE=1 SV=4	37.4	5.6	1	119.6 (M:119.6)	2	8.5	3.99	119								
true	NUCB2_RAT	Nucleobindin-2 OS=Rattus norvegicus GN=Nucb2 PE=2 SV=1	50.1	4.9	1	118.9 (M:118.9)	2	4.8	2.72	120								
true	USMG5_RAT	Up-regulated during skeletal muscle growth protein 5 OS=Rattus norvegicus GN=Usmg5 PE=1 SV=1	6.4	9.8	1	117.1 (M:117.1)	2	43.1	1.38	121			0.82	2	33.79	1	1	
true	TRAP1_RAT	Heat shock protein 75 kDa, mitochondrial OS=Rattus norvegicus GN=Trap1 PE=1 SV=1	80.4	6.6	1	116.6 (M:116.6)	2	3.4	2.94	122								
true	ATP5H_RAT	ATP synthase subunit d, mitochondrial OS=Rattus norvegicus GN=Atp5h PE=1 SV=3	18.8	6.2	1	113.2 (M:113.2)	2	15.5	4.91	123	1.25	1	0.99	1		1.05	1	
true	THIM_RAT	3-ketoacyl-CoA thiolase, mitochondrial OS=Rattus norvegicus GN=Acaa2 PE=2 SV=1	41.8	9.1	1	113.2 (M:113.2)	3	11.8	1.72	124								
true	DYHC2_RAT	Cytoplasmic dynein 2 heavy chain 1 OS=Rattus norvegicus GN=Dync2h1 PE=1 SV=1	491.9	6.2	1	113.1 (M:113.1)	1	0.2	3.46	125								
true	DAD1_RAT	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit DAD1 OS=Rattus norvegicus GN=Dad1 PE=3 SV=3	12.5	7.5	1	113.0 (M:113.0)	2	19.5	1.77	126								
true	TBB4B_RAT	Tubulin beta-4B chain OS=Rattus norvegicus GN=Tubb4b PE=1 SV=1	49.8	4.6	1	112.8 (M:112.8)	3	10.8	856.79	127								
true	RAB6A_RAT	Ras-related protein Rab-6A OS=Rattus norvegicus GN=Rab6a PE=2 SV=2	23.6	5.3	1	112.5 (M:112.5)	2	9.6	4.4	128			0.68	1				
true	1433G_RAT	14-3-3 protein gamma OS=Rattus norvegicus GN=Ywhag PE=1 SV=2	28.3	4.7	1	112.1 (M:112.1)	2	13.4	0.66	129	0.72	1	0			0.67	1	0
true	CPT2_RAT	Carnitine O-palmitoyltransferase 2, mitochondrial OS=Rattus norvegicus GN=Cpt2 PE=1 SV=1	74.1	6.9	1	112.1 (M:112.1)	1	1.4	1.13	130								
true	DJB11_RAT	DnaJ homolog subfamily B member 11 OS=Rattus norvegicus GN=Dnajb11 PE=2 SV=1	40.5	5.9	1	111.8 (M:111.8)	2	7.5	2.6	131			1.29	1	0			
true	LAMP1_RAT	Lysosome-associated membrane glycoprotein 1 OS=Rattus norvegicus GN=Lamp1 PE=1 SV=1	43.9	8.3	1	111.2 (M:111.2)	2	6.1	2.05	132						1.31	1	0
true	AT2B1_RAT	Plasma membrane calcium-transporting ATPase 1 OS=Rattus norvegicus GN=Atp2b1 PE=2 SV=2	138.6	5.6	4	109.8 (M:109.8)	2	2.6	1.43	133								
true	RL9_RAT	60S ribosomal protein L9 OS=Rattus norvegicus GN=Rpl9 PE=1 SV=1	21.9	10.5	1	109.5 (M:109.5)	2	16.1	1.38	134			1.16	1	0	0.52	1	0

		mitochondrial OS=Rattus norvegicus GN=Ogdh PE=1 SV=1				(M:91.0)													
true	M2OM_RAT	Mitochondrial 2-oxoglutarate/malate carrier protein OS=Rattus norvegicus GN=Slc25a11 PE=2 SV=3	34.2	10.4	1	89.2 (M:89.2)	1	5.1	4.57	153									
true	PRDX5_RAT	Peroxiredoxin-5, mitochondrial OS=Rattus norvegicus GN=Prdx5 PE=1 SV=1	22.2	10.1	1	86.3 (M:86.3)	3	24.9	0.51	154	1.1	2	0			1.26	2	0	
true	MSMO1_RAT	Methylsterol monooxygenase 1 OS=Rattus norvegicus GN=Msmo1 PE=2 SV=1	34.9	7	1	85.3 (M:85.3)	2	8.5	0.38	155									
true	RL19_RAT	60S ribosomal protein L19 OS=Rattus norvegicus GN=Rpl19 PE=1 SV=1	23.5	12.1	1	84.5 (M:84.5)	1	8.7	1.69	156									
true	SCOT1_RAT	Succinyl-CoA:3-ketoacid coenzyme A transferase 1, mitochondrial OS=Rattus norvegicus GN=Oxct1 PE=1 SV=1	56.2	8.7	1	84.0 (M:84.0)	2	6.2	3.13	157									
true	VATB2_RAT	V-type proton ATPase subunit B, brain isoform OS=Rattus norvegicus GN=Atp6v1b2 PE=1 SV=1	56.5	5.5	1	84.0 (M:84.0)	2	4.3	3.02	158									
true	RL18_RAT	60S ribosomal protein L18 OS=Rattus norvegicus GN=Rpl18 PE=2 SV=2	21.6	12.3	1	82.5 (M:82.5)	2	13.8	4.13	159									
true	RL6_RAT	60S ribosomal protein L6 OS=Rattus norvegicus GN=Rpl6 PE=1 SV=5	33.5	11.2	1	82.2 (M:82.2)	2	5.4	5.7	160									
true	ATP8_RAT	ATP synthase protein 8 OS=Rattus norvegicus GN=Mt-atp8 PE=1 SV=1	7.6	9.3	1	81.3 (M:81.3)	1	19.4	0.52	161									
true	RL8_RAT	60S ribosomal protein L8 OS=Rattus norvegicus GN=Rpl8 PE=2 SV=2	28	11.9	1	80.7 (M:80.7)	1	4.3	8.43	162									
true	SCAM1_RAT	Secretory carrier-associated membrane protein 1 OS=Rattus norvegicus GN=Scamp1 PE=1 SV=1	38	8.8	1	80.4 (M:80.4)	1	6.8	2.82	163									
true	ACTN1_RAT	Alpha-actinin-1 OS=Rattus norvegicus GN=Actn1 PE=1 SV=1	102.9	5.1	2	79.5 (M:79.5)	1	1.3	3.42	164									
true	GNAL_RAT	Guanine nucleotide-binding protein G(olf) subunit alpha OS=Rattus norvegicus GN=Gnal PE=2 SV=2	44.2	6.2	1	78.7 (M:78.7)	2	5	647.01	165				0.77	1	0			
true	DHCR7_RAT	7-dehydrocholesterol reductase OS=Rattus norvegicus GN=Dhcr7 PE=2 SV=1	54.1	8.6	1	78.3 (M:78.3)	2	7.4	1.15	166						1.11	1	0	
true	P5CR2_RAT	Pyrroline-5-carboxylate reductase 2 OS=Rattus norvegicus GN=Pycr2 PE=2 SV=1	33.7	9	1	78.3 (M:78.3)	1	4.1	2.47	167									
true	S61A1_RAT	Protein transport protein Sec61 subunit alpha isoform 1 OS=Rattus norvegicus GN=Sec61a1 PE=2 SV=2	52.2	9.1	1	78.0 (M:78.0)	1	2.3	3.1	168				0.6	1	0			
true	MYL6_RAT	Myosin light polypeptide 6 OS=Rattus norvegicus GN=Myl6 PE=1 SV=3	17	4.3	1	77.8 (M:77.8)	2	18.5	0.87	169				0.8	1	0	0.67	1	0
true	KAD3_RAT	GTP:AMP phosphotransferase AK3,	25.4	8.9	1	77.7	2	11	3.58	170									

		mitochondrial OS=Rattus norvegicus GN=Ak3 PE=2 SV=2				(M:77.7)												
true	AT1B1_RAT	Sodium/potassium-transporting ATPase subunit beta-1 OS=Rattus norvegicus GN=Atp1b1 PE=1 SV=1	35.2	9.5	1	77.3 (M:77.3)	1	3.6	2.59	171								
true	RL7A_RAT	60S ribosomal protein L7a OS=Rattus norvegicus GN=Rpl7a PE=1 SV=2	30	11.3	1	75.3 (M:75.3)	2	10.5	3.02	172						0.72	1	
true	SSRG_RAT	Translocon-associated protein subunit gamma OS=Rattus norvegicus GN=Ssr3 PE=2 SV=2	21.1	10	1	73.7 (M:73.7)	1	7.6	1.2	173								
true	PPIA_RAT	Peptidyl-prolyl cis-trans isomerase A OS=Rattus norvegicus GN=Ppia PE=1 SV=2	17.9	9.4	1	73.3 (M:73.3)	1	11	1.39	174								
true	EF1G_RAT	Elongation factor 1-gamma OS=Rattus norvegicus GN=Eef1g PE=1 SV=3	50	6.3	1	72.9 (M:72.9)	2	5.9	0.55	175								
true	EF1D_RAT	Elongation factor 1-delta OS=Rattus norvegicus GN=Eef1d PE=1 SV=2	31.3	4.9	1	72.9 (M:72.9)	1	4.3	2.26	176								
true	KPYM_RAT	Pyruvate kinase PKM OS=Rattus norvegicus GN=Pkm PE=1 SV=3	57.8	6.7	1	71.6 (M:71.6)	1	2.1	1.69	177								
true	KAD2_RAT	Adenylate kinase 2, mitochondrial OS=Rattus norvegicus GN=Ak2 PE=2 SV=2	26.4	6.4	1	71.6 (M:71.6)	1	4.2	2.18	178								
true	RS14_RAT	40S ribosomal protein S14 OS=Rattus norvegicus GN=Rps14 PE=2 SV=3	16.2	10.9	1	71.1 (M:71.1)	1	8.6	0.06	179								
true	MLEC_RAT	Malectin OS=Rattus norvegicus GN=Mlec PE=2 SV=1	32.4	5.4	1	70.5 (M:70.5)	1	4.5	1.73	180						1.06	1	0
true	VAPB_RAT	Vesicle-associated membrane protein- associated protein B OS=Rattus norvegicus GN=Vapb PE=1 SV=3	26.9	7.6	2	69.2 (M:69.2)	2	10.7	2.11	181								
true	RL23A_RAT	60S ribosomal protein L23a OS=Rattus norvegicus GN=Rpl23a PE=2 SV=1	17.7	10.9	1	68.6 (M:68.6)	1	8.3	0.25	182								
true	RL7_RAT	60S ribosomal protein L7 OS=Rattus norvegicus GN=Rpl7 PE=1 SV=2	30.3	11.4	1	68.6 (M:68.6)	1	4.2	849.66	183								
true	GABT_RAT	4-aminobutyrate aminotransferase, mitochondrial OS=Rattus norvegicus GN=Abat PE=1 SV=3	56.4	9.2	1	68.0 (M:68.0)	1	3	0.27	184								
true	GTR2_RAT	Solute carrier family 2, facilitated glucose transporter member 2 OS=Rattus norvegicus GN=Slc2a2 PE=2 SV=1	57	6.1	1	64.9 (M:64.9)	1	1.9	0.06	185								
true	ERD22_RAT	ER lumen protein retaining receptor 2 OS=Rattus norvegicus GN=Kdelr2 PE=2 SV=1	24.4	8.9	2	64.7 (M:64.7)	1	5.2	0.41	186								
true	TCPD_RAT	T-complex protein 1 subunit delta OS=Rattus norvegicus GN=Cct4 PE=1 SV=3	58.1	9.2	1	64.2 (M:64.2)	1	2.4	1.68	187								
true	RL11_RAT	60S ribosomal protein L11 OS=Rattus	20.2	10.3	1	63.9	1	7.9	0.66	188								

		norvegicus GN=Rpl11 PE=1 SV=2				(M:63.9)														
true	LETM1_RAT	LETM1 and EF-hand domain-containing protein 1, mitochondrial OS=Rattus norvegicus GN=Letm1 PE=1 SV=1	83	6.2	1	63.5 (M:63.5)	1	1.9	3.89	189										
true	RS6_RAT	40S ribosomal protein S6 OS=Rattus norvegicus GN=Rps6 PE=1 SV=1	28.7	11.5	1	63.2 (M:63.2)	1	4.8	1.26	190										
true	H14_RAT	Histone H1.4 OS=Rattus norvegicus GN=Hist1h1e PE=1 SV=3	22	11.6	2	62.8 (M:62.8)	1	5	2.6	191										
true	TMED7_RAT	Transmembrane emp24 domain-containing protein 7 OS=Rattus norvegicus GN=Tmed7 PE=1 SV=1	25.5	6.5	1	62.5 (M:62.5)	2	9.7	1.35	192										
true	SCG3_RAT	Secretogranin-3 OS=Rattus norvegicus GN=Scg3 PE=1 SV=1	53.2	4.8	1	61.7 (M:61.7)	1	3	0.67	193										
true	MELT_RAT	Ventricular zone-expressed PH domain-containing protein homolog 1 OS=Rattus norvegicus GN=Veph1 PE=2 SV=1	94.4	6.6	1	61.6 (M:61.6)	1	0.8	8.07	194										
true	PICAL_RAT	Phosphatidylinositol-binding clathrin assembly protein OS=Rattus norvegicus GN=Picalm PE=1 SV=1	69.2	9.2	1	61.1 (M:61.1)	1	3.1	3.94	195										
true	CX7A2_RAT	Cytochrome c oxidase subunit 7A2, mitochondrial OS=Rattus norvegicus GN=Cox7a2 PE=1 SV=1	9.3	10.3	1	60.5 (M:60.5)	1	12	4.55	196										
true	DLDH_RAT	Dihydrolipoyl dehydrogenase, mitochondrial OS=Rattus norvegicus GN=Dld PE=1 SV=1	54	9	1	59.6 (M:59.6)	1	3.5	0.11	197							1.23	1	0	
true	RTN4_RAT	Reticulon-4 OS=Rattus norvegicus GN=Rtn4 PE=1 SV=1	126.3	4.3	1	59.4 (M:59.4)	1	1.6	0.24	198	0.75	1	0	1.28	1	0	0.68	1	0	
true	H2B1_RAT	Histone H2B type 1 OS=Rattus norvegicus PE=1 SV=2	14	10.8	2	59.0 (M:59.0)	2	16	4.34	199	1.27	1	0				1.25	1	0	
true	ODO2_RAT	Dihydrolipoyllysine-residue succinyltransferase component of 2-oxoglutarate dehydrogenase complex, mitochondrial OS=Rattus norvegicus GN=Dlst PE=1 SV=2	48.9	8.9	1	58.8 (M:58.8)	2	4.6	4.86	200										
true	PP1G_RAT	Serine/threonine-protein phosphatase PP1-gamma catalytic subunit OS=Rattus norvegicus GN=Ppp1cc PE=1 SV=1	37	6.1	3	57.6 (M:57.6)	1	5.6	0.58	201										
true	MANF_RAT	Mesencephalic astrocyte-derived neurotrophic factor OS=Rattus norvegicus GN=Manf PE=1 SV=1	20.4	9.5	1	57.4 (M:57.4)	1	8.4	0.6	202								1.28	1	0
true	DHB4_RAT	Peroxisomal multifunctional enzyme type 2 OS=Rattus norvegicus GN=Hsd17b4 PE=1 SV=3	79.4	9.4	1	57.1 (M:57.1)	1	1.5	0.03	203										
true	AP2B1_RAT	AP-2 complex subunit beta OS=Rattus norvegicus GN=Ap2b1 PE=1 SV=1	104.5	5.1	2	56.0 (M:56.0)	1	1.6	1.24	204								1.18	1	0

false	TIM16_RAT	Mitochondrial import inner membrane translocase subunit TIM16 OS=Rattus norvegicus GN=Magmas-ps1 PE=3 SV=1	13.7	6.3	1	28.6 (M:28.6)	1	10.5	1.34	292								
false	RNH2A_RAT	Ribonuclease H2 subunit A OS=Rattus norvegicus GN=Rnaseh2a PE=2 SV=1	33.3	5	1	28.4 (M:28.4)	1	4	0.64	293								
false	VPP1_RAT	V-type proton ATPase 116 kDa subunit a isoform 1 OS=Rattus norvegicus GN=Atp6v0a1 PE=2 SV=1	96.3	6	1	28.1 (M:28.1)	1	1.6	0.32	294								
false	GATM_RAT	Glycine amidinotransferase, mitochondrial OS=Rattus norvegicus GN=Gatm PE=1 SV=1	48.2	7.2	1	27.9 (M:27.9)	1	4	1.22	295								
false	RL36A_RAT	60S ribosomal protein L36a OS=Rattus norvegicus GN=Rpl36a PE=1 SV=2	12.4	11.7	1	27.6 (M:27.6)	1	8.5	2.38	296								
false	ODPB_RAT	Pyruvate dehydrogenase E1 component subunit beta, mitochondrial OS=Rattus norvegicus GN=Pdhb PE=1 SV=2	39	6.2	1	27.3 (M:27.3)	1	3.1	1.65	297								
false	TSN13_RAT	Tetraspanin-13 OS=Rattus norvegicus GN=Tspan13 PE=2 SV=1	22.2	8.8	1	27.3 (M:27.3)	1	2.5	3100.63	298								
false	UBR5_RAT	E3 ubiquitin-protein ligase UBR5 OS=Rattus norvegicus GN=Ubr5 PE=1 SV=3	307.8	5.7	1	27.2 (M:27.2)	1	0.4	9.05	299								
false	NXF1_RAT	Nuclear RNA export factor 1 OS=Rattus norvegicus GN=Nxf1 PE=2 SV=1	70.3	9.7	1	25.8 (M:25.8)	1	1.5	1917.48	300								
false	STIM1_RAT	Stromal interaction molecule 1 OS=Rattus norvegicus GN=Stim1 PE=1 SV=1	77.4	6.1	1	24.8 (M:24.8)	0	0	1.65	301								