

Supplementary Table 7: list of proteins which abundance is significantly modified in response to cell exposure to 1 micrometer PS particles only

acc number	gene_name	description	protein_set_score	coverage	MW	#peptides	T test 1 $\mu$ m	Ratio 1 $\mu$ m/ctrl
Q8VCT3	Rnpep	Aminopeptidase B	1093.15	38.46	72416	17	0.03043867	1.5129328
P68433	Hist1h3a	Histone H3.1	745.88	61.76	15404	11	0.03723589	0.33432056
D4A2Z8	Dhx36	ATP-dependent DNA/RNA helicase DHX36	220.46	6.4	113843	4	0.0479486	1.9701595
P02301	H3f3c	Histone H3.3C	574.81	54.41	15315	9	0.03770303	0.33489212
Q3T1J9	Mob1a	MOB kinase activator 1A	183.3	18.98	25080	5	0.03545395	1.69509344
Q91WT8	Rbm47	RNA-binding protein 47	42.72	3.39	64062	1	0.0398106	2.51921891
Q6GQT9	Nomo1	Nodal modulator 1	806.74	18.45	133420	14	0.0451961	0.48896775
Q69ZS7	Hbs11	HBS1-like protein	101.36	2.79	75100	2	0.02782663	2.39306433
P06745	Gpi	Glucose-6-phosphate isomerase	2083.16	58.06	62767	34	0.02044202	1.69220508
P11499	Hsp90ab1	Heat shock protein HSP 90-beta	4353.79	70.03	83281	63	0.03799392	1.62704511
P16460	Ass1	Argininosuccinate synthase	287.23	13.11	46584	6	0.02476753	1.65638329
Q75Q40	Tomm40	Mitochondrial import receptor subunit TOM40 homolog	539.18	39.34	37919	9	0.02353867	0.60987432
Q8VIJ6	Sfpq	Splicing factor, proline- and glutamine-rich	1483.98	33.19	75442	24	0.04320463	0.77990621
Q91VY9	Znf622	Zinc finger protein 622	61.8	4.41	53451	1	0.03788661	1.76899696
O88738	Birc6	Baculoviral IAP repeat-containing protein 6	111.77	0.8	532170	3	0.03919258	1.76741588
O88543	Cops3	COP9 signalosome complex subunit 3	347.55	21.28	47832	7	0.00432053	1.65203403
Q9QZL0	Ripk3	Receptor-interacting serine/threonine-protein kinase 3	73.14	5.76	53322	2	0.0115275	2.0604972
P62855	Rps26	40S ribosomal protein S26	194.42	24.35	13015	3	0.04533591	1.35787438
Q9JJ78	Pbk	Lymphokine-activated killer T-cell-originated protein kinase	54.25	3.94	36745	1	0.02231156	2.16334858
P35585	Ap1m1	AP-1 complex subunit mu-1	223.66	14.89	48543	5	0.04962847	1.79525547
Q8K0V4	Cnot3	CCR4-NOT transcription complex subunit 3	47.01	2.53	81946	1	0.02826517	7.01943922
Q9CZW4	Acsl3	Long-chain-fatty-acid--CoA ligase 3	321.46	9.17	80492	5	0.04005057	1.94620571
Q91VR2	Atp5f1c	ATP synthase subunit gamma, mitochondrial	482.45	28.52	32886	9	0.02634531	0.73268693
Q3TDD9	Ppp1r21	Protein phosphatase 1 regulatory subunit 21	43.24	1.92	88338	1	0.03940278	1.67834526
Q80VD1	Fam98b	Protein FAM98B	252.46	13.29	45349	5	0.04524084	1.82458539
P63280	Ube2i	SUMO-conjugating enzyme UBC9	275.56	27.85	18007	5	0.01147093	1.60569575
P15429	Eno3	Beta-enolase	668.53	19.82	47014	7	0.03630315	1.62924079
Q9EST5	Anp32b	Acidic leucine-rich nuclear phosphoprotein 32 family member B	373.31	25.74	31079	8	0.042213	1.43818454
O08579	Emd	Emerin	335.04	47.88	29436	7	0.03338261	0.7493132
P11497	Acaca	Acetyl-CoA carboxylase 1	179.64	2.6	265194	4	0.03176953	2.03235397
P28063	Psmb8	Proteasome subunit beta type-8	602.14	42.39	30260	10	0.01865922	1.46406553
Q63228	Gmfb	Glia maturation factor beta	271.63	35.21	16736	4	0.04469895	1.38261519
Q5U2R0	Mat2b	Methionine adenosyltransferase 2 subunit beta	152.24	9.58	37375	3	0.01868739	1.6369411
Q8CGI1	Fam193a	Protein FAM193A	37.06	0.81	136714	1	0.01169309	1.75439715
P17751	Tpi1	Triosephosphate isomerase	1513.19	74.25	32192	21	0.01885117	1.73955611
Q9CRA8	Exosc5	Exosome complex component RRP46	106.4	9.79	25194	2	0.01425812	2.01898853
Q641Z8	Pef1	Peflin	63.59	4.59	30012	1	0.04444665	2.22215035
Q9R1P1	Psmb3	Proteasome subunit beta type-3	809.18	51.71	22965	13	0.04327078	1.48450621
P01902	H2-K1	H-2 class I histocompatibility antigen, K-D alpha chain	430.13	23.1	41490	8	0.01165795	0.6008847
O35095	Ncdn	Neurochondrin	96.84	4.39	78923	2	0.01474375	2.815497
Q7TNC4	Luc7l2	Putative RNA-binding protein Luc7-like 2	347.62	20.41	46583	7	0.04910451	1.46655696
Q8C878	Uba3	NEDD8-activating enzyme E1 catalytic subunit	158.9	14.07	51737	3	0.03302853	2.28630695
Q8C166	Cpne1	Copine-1	634.77	27.05	58887	12	0.04973723	0.79197995
Q62422	Ostf1	Osteoclast-stimulating factor 1	344.67	34.42	23783	6	0.01271472	1.73464214
P10639	Txn	Thioredoxin	234.83	35.24	11675	4	0.04438198	1.67043517
P59328	Wdhd1	WD repeat and HMG-box DNA-binding protein 1	159.33	4.3	124254	5	0.00028523	1.38040641
Q9D1E6	Tbcb	Tubulin-folding cofactor B	44.83	8.2	27386	1	0.04985664	2.69318231
Q00422	Gabpa	GA-binding protein alpha chain	82.78	3.96	51344	2	0.00021839	3.40862091
Q3TCJ1	Abraxas2	BRISC complex subunit Abraxas 2	218.47	14.7	46943	4	0.02761151	1.97761788
Q60931	Vdac3	Voltage-dependent anion-selective channel protein 3	407.52	28.98	30753	6	0.03707122	0.66713182
Q8VC03	Eml3	Echinoderm microtubule-associated protein-like 3	142.55	4.12	95695	3	0.03516049	2.03618729

Q3U9G9	Lbr	Lamin-B receptor	552.18	17.73	71440	10	0.04983745	0.47576062
Q62523	Zyx	Zyxin	398.79	21.99	60546	9	0.01714292	1.28669386
Q9JK23	Psmg1	Proteasome assembly chaperone 1	190.57	13.15	33104	3	0.02602944	1.91547287
P33610	Prim2	DNA primase large subunit	253.3	11.09	58408	4	0.02986141	2.0696751
Q91VC3	Eif4a3	Eukaryotic initiation factor 4A-III	707.67	27.49	46840	11	0.04019697	0.83359075
Q60605	Myl6	Myosin light polypeptide 6	753.38	66.23	16930	11	0.04685827	1.18873988
Q64521	Gpd2	Glycerol-3-phosphate dehydrogenase, mitochondrial	650.57	22.01	80954	10	0.02185706	0.64080982
O35900	Lsm2	U6 snRNA-associated Sm-like protein LSM2	120.7	20	10835	1	0.00799141	2.13094294
Q8VBT0	Tmx1	Thioredoxin-related transmembrane protein 1	171.11	12.59	31396	3	0.00329008	0.74068343
Q9JK38	Gnpnat1	Glucosamine 6-phosphate N-acetyltransferase	68.79	5.98	20791	1	0.00980558	4.51066399
P14733	Lmnb1	Lamin-B1	2214.53	59.69	66786	40	0.04523892	0.66284586
O35129	Phb2	Prohibitin-2	1314.53	74.25	33296	22	0.00613952	0.67416531
Q9CRA5	Golph3	Golgi phosphoprotein 3	131.4	10.4	33752	2	0.03167397	1.93742197
O08709	Prdx6	Peroxisredoxin-6	857.43	72.77	24871	15	0.04389868	1.70348817
P37727	Chm	Rab proteins geranylgeranyltransferase component A 1	43.48	1.38	72480	1	0.02611004	1.91791934
Q8C7X2	Emc1	ER membrane protein complex subunit 1	955.99	25.88	111605	17	0.01057493	0.70370891
P70296	Pebp1	Phosphatidylethanolamine-binding protein 1	318.11	49.73	20830	5	0.02443297	1.59669048
O88377	Pip4k2b	Phosphatidylinositol 5-phosphate 4-kinase type-2 beta	62.76	3.37	47264	1	0.00159718	163976.969
Q6PAM1	Txlna	Alpha-taxilin	167.46	6.14	62369	2	0.02838982	2.24038644
Q9CQT1	Mri1	Methylthioribose-1-phosphate isomerase	419.89	29	39411	7	0.02115044	1.6592354
Q61166	Mapre1	Microtubule-associated protein RP/EB family member 1	323.06	30.6	30016	6	0.04180373	1.29682673
O70199	Ugdh	UDP-glucose 6-dehydrogenase	51.94	1.83	54892	1	0.00051761	5.49470452
Q6AYT7	Abhd12	Monoacylglycerol lipase ABHD12	475.06	31.41	45296	10	0.03561373	0.63534647
Q9Z2U0	Psma7	Proteasome subunit alpha type-7	682.84	53.23	27855	12	0.01248645	1.72260325
Q3TJZ6	Fam98a	Protein FAM98A	182.92	8.35	55055	4	0.04891632	1.68482887
Q9CR60	Golt1b	Vesicle transport protein GOT1B	151.02	10.87	15422	2	0.03830082	0.52854875
Q3V300	Kif22	Kinesin-like protein KIF22	199.06	5.3	73190	3	0.03958963	2.48199654
Q07832	Plk1	Serine/threonine-protein kinase PLK1	52.95	2.16	68301	1	0.03089502	2.32259666
Q99LX0	Park7	Protein/nucleic acid deglycase DJ-1	862.06	85.71	20021	14	0.03701703	1.53238343
P16884	Nefh	Neurofilament heavy polypeptide	82.43	1.59	115378	2	0.0436048	2.11830561
Q5SUF2	Luc7l3	Luc7-like protein 3	482.02	21.76	51450	7	0.01311282	1.44890002
Q99JH1	Rpp25l	Ribonuclease P protein subunit p25-like protein	38.46	5.52	17675	1	0.04058182	2.19308716
Q8CAQ8	Immt	MICOS complex subunit Mic60	1617.9	46.24	83900	26	0.01519396	0.68102017
P21619	Lmnb2	Lamin-B2	520.9	15.94	67318	9	0.04824758	0.78205048
O35841	Api5	Apoptosis inhibitor 5	603.03	27.18	56785	9	0.03374434	1.40528045
Q32PX7	Fubp1	Far upstream element-binding protein 1	712.51	27.39	67197	14	0.02813214	1.35228736
P54313	Gnb2	Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-2	1122.22	60.29	37331	16	0.01037126	0.71657762
P67778	Phb	Prohibitin	1327.9	83.46	29820	20	0.01994326	0.71137331
Q3UMY5	Eml4	Echinoderm microtubule-associated protein-like 4	105.37	3.64	110027	2	0.01230848	2.1701783
Q8BMZ5	Tsen34	tRNA-splicing endonuclease subunit Sen34	86.17	7.59	34196	2	0.04733272	1.90708053
P0C5H9	Manf	Mesencephalic astrocyte-derived neurotrophic factor	36.47	7.82	20388	1	0.0176572	2.83733187
Q499W2	Gins4	DNA replication complex GINS protein SLD5	80.44	12.56	26062	2	0.01776032	2.10674748
Q6PGH2	Jpt2	Jupiter microtubule associated homolog 2	162.14	21.58	20020	3	0.0322535	1.40668341
P05555	Itgam	Integrin alpha-M	1525.94	24.02	127481	25	0.02242427	0.7133324
P63174	Rpl38	60S ribosomal protein L38	218.48	48.57	8218	4	0.02429784	1.72946665
Q6AXS3	Dek	Protein DEK	210.5	10.58	42892	4	0.03425415	1.22273393
Q9DCN2	Cyb5r3	NADH-cytochrome b5 reductase 3	772.85	35.88	34128	11	0.0359292	0.70086439
P30285	Cdk4	Cyclin-dependent kinase 4	129.44	8.25	33751	2	0.04757625	1.60756841
Q8CCP0	Nemf	Nuclear export mediator factor Nemf	82.61	2.91	121188	2	0.02049413	2.0155918

Q8BGA5	Krr1	KRR1 small subunit processome component homolog	129.86	7.89	43538	3	0.03898191	1.86222461
A1L1L2	Tmem214	Transmembrane protein 214	65.71	2.04	76566	1	0.04708803	0.53527204
Q9D358	Acp1	Low molecular weight phosphotyrosine protein phosphatase	444.4	60.76	18192	6	0.02331313	1.80703951
P04550	Ptms	Parathymosin	73.71	10.78	11559	1	0.03768423	1.26577869
Q63584	Tmed10	Transmembrane emp24 domain-containing protein 10	412.94	27.85	24858	7	0.02772931	0.83496116
Q8CG45	Akr7a2	Aflatoxin B1 aldehyde reductase member 2	74.93	4.09	40675	1	0.01894509	1.97274119
Q9D883	U2af1	Splicing factor U2AF 35 kDa subunit	333.06	22.18	27815	5	0.04231988	1.43111939
P11167	Slc2a1	Solute carrier family 2, facilitated glucose transporter member 1	270.66	9.96	53963	4	0.04507204	0.58050465
Q62351	Tfrc	Transferrin receptor protein 1	1069.33	26.34	85731	20	0.0040118	0.71556726
Q9D7E3	Ovca2	Esterase OVCA2	42.82	4.89	24246	1	0.02982408	2.52234383
Q04931	Ssrp1	FACT complex subunit SSRP1	254.85	11.42	80914	5	0.02416706	1.37458503
Q9DB77	Uqcrc2	Cytochrome b-c1 complex subunit 2, mitochondrial	1094.11	41.94	48235	17	0.0125106	0.79083924
P97822	Anp32e	Acidic leucine-rich nuclear phosphoprotein 32 family member E	248.96	17.69	29622	4	0.01591827	2.07585116
Q9JHI5	Ivd	Isovaleryl-CoA dehydrogenase, mitochondrial	323.11	16.75	46325	7	0.0439386	0.74509161
Q66HG8	Ik	Protein Red	98.65	7.18	65588	3	0.04657352	1.93458884
P24452	Capg	Macrophage-capping protein	1306.43	42.61	39240	16	0.04811746	1.52623626
P09411	Pgk1	Phosphoglycerate kinase 1	2549.8	77.94	44550	37	0.0434175	1.57687514
E9Q4Z2	Acacb	Acetyl-CoA carboxylase 2	63.4	1.35	275750	2	0.04642434	2.74407605
Q8BGA9	Oxa11	Mitochondrial inner membrane protein OXA1L	40.43	2.08	48220	1	0.02961093	0.74373643
Q9DC69	Ndufa9	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 9, mitochondrial	366.92	23.61	42525	6	0.0470649	0.64375434
Q91WD5	Ndufs2	NADH dehydrogenase [ubiquinone] iron-sulfur protein 2, mitochondrial	338.61	16.41	52626	5	0.03339481	0.53582119
Q8BGS2	Bola2	Bola-like protein 2	91.62	20.93	10215	2	0.02876429	2.02866144
Q8BZA9	Tigar	Fructose-2,6-bisphosphatase TIGAR	181.81	19.33	29191	3	0.03230321	1.53530782
Q3TBD2	Arhgap45	Rho GTPase-activating protein 45	175.73	3.94	122902	3	0.02632791	2.08733204
Q9D211	Cdkn2aipnl	CDKN2AIP N-terminal-like protein 1	78.86	18.97	13209	2	0.00224408	3.47603424
P53994	Rab2a	Ras-related protein Rab-2A	478.13	38.68	23548	8	0.03796646	0.74945196
P54731	Faf1	FAS-associated factor 1	93.16	2	73863	2	0.03970739	1.9884257
P62962	Pfn1	Profilin-1	1196.8	94.29	14957	18	0.03795342	1.61346034
P30904	Mif	Macrophage migration inhibitory factor	183.07	17.39	12477	3	0.0415687	1.67002505
P14882	Pcca	Propionyl-CoA carboxylase alpha chain, mitochondrial	41.72	2.04	81623	1	0.0414621	0.0541788
Q6ZQI3	Mlec	Malectin	128.98	9.97	32342	2	0.04029815	0.70262675
P25206	Mcm3	DNA replication licensing factor MCM3	1298.46	33.5	91546	20	0.04303963	1.27138186
Q9Z0U1	Tjp2	Tight junction protein ZO-2	87.57	2.66	131280	3	0.02901394	2.5689343
Q9QZ73	Dcun1d1	DCN1-like protein 1	45.08	5.02	30097	1	0.04694835	1.80065898
O35522	Psmb9	Proteasome subunit beta type-9	259.13	29.68	23427	5	0.02624169	1.51588457
Q99LC3	Ndufa10	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 10, mitochondrial	337.17	19.44	40603	6	0.0433896	0.61648904
P56480	Atp5f1b	ATP synthase subunit beta, mitochondrial	2393.99	69	56300	35	0.02765187	0.70452828
O09117	Syp11	Synaptophysin-like protein 1	83.03	4.21	28899	2	0.03781233	0.70878187
P51881	Slc25a5	ADP/ATP translocase 2	1922.33	78.19	32931	28	0.04856131	0.6802426
P62254	Ube2g1	Ubiquitin-conjugating enzyme E2 G1	45.17	5.88	19509	1	0.04888212	1.76812537
P70218	Map4k1	Mitogen-activated protein kinase kinase kinase 1	41.66	1.09	91535	1	0.00453171	4.18298884
Q80WJ7	Mtdh	Protein LYRIC	398.5	15.89	63846	7	0.03086256	0.80648447
P48962	Slc25a4	ADP/ATP translocase 1	1241.76	60.07	32904	21	0.0434826	0.70042386
P49717	Mcm4	DNA replication licensing factor MCM4	1020.22	25.87	96736	17	0.03397562	1.2346481
Q5FVM3	Retreg1	Reticulophagy regulator 1	64.63	2.29	52782	1	0.02942384	3.24240832
Q9ERS2	Ndufa13	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 13	147.52	13.89	16860	3	0.00870406	0.77353867

Q3SWU3	Hnrmpdl	Heterogeneous nuclear ribonucleoprotein D-like	123.18	16.46	35294	3	0.00704577	0.65139699
Q99L45	Eif2s2	Eukaryotic translation initiation factor 2 subunit 2	516.94	38.07	38092	10	0.03625873	1.32251233
P36916	Gnl1	Guanine nucleotide-binding protein-like 1	138.93	5.27	68771	3	0.03862605	2.27083925
P54311	Gnb1	Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-1	561.43	31.76	37377	9	0.04838997	0.71644009
Q9D892	Itpa	Inosine triphosphate pyrophosphatase	69.54	5.56	21897	1	0.03452095	1.94651247
P35434	Atp5f1d	ATP synthase subunit delta, mitochondrial	182.54	15.48	17595	3	0.03433022	0.75619665
P47758	Srprb	Signal recognition particle receptor subunit beta	333.17	31.97	29579	6	0.01357665	0.74200775
B0BN18	Pfdn2	Prefoldin subunit 2	174.48	22.73	16580	3	0.01759836	1.68329694
Q8BRN9	Cc2d1b	Coiled-coil and C2 domain-containing protein 1B	70.91	2.71	93091	1	0.04145188	2.24243709
P32067	Ssb	Lupus La protein homolog	849.81	33.49	47756	14	0.01404927	1.29962385
Q9CZ13	Uqcrc1	Cytochrome b-c1 complex subunit 1, mitochondrial	686.76	36.88	52852	12	0.01704214	0.7084771
P97797	Sirpa	Tyrosine-protein phosphatase non-receptor type substrate 1	167.75	8.97	56425	3	0.04629281	0.78300758
P59017	Bcl2l13	Bcl-2-like protein 13	41.92	6.45	46719	1	0.01560829	0.26098947
Q8R146	Apeh	Acylamino-acid-releasing enzyme	300.03	13.25	81581	5	0.04081602	2.18264891
P62835	Rap1a	Ras-related protein Rap-1A	826	75	20987	13	0.03854453	0.86795704
O54734	Ddost	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase 48 kDa subunit	855.66	39.46	49028	13	0.04823851	0.79491894