

Supplemental Table 1. Proteomic Constituents of Healthy Murine Vitreous Humor

Accession	Symbol	Description	Mean PSM Count
Q61597	Crygc	Gamma-crystallin C	1561.13
P04344	Crygb	Gamma-crystallin B	1430.51
P04342	Crygd	Gamma-crystallin D	797.49
O35486	Crygs	Beta-crystallin S	613.42
Q03740	Cryge	Gamma-crystallin E	607.54
P62696	Crybb2	Beta-crystallin B2	583.62
P07724	Alb	Serum albumin	359.00
Q9JJV0	Cryba4	Beta-crystallin A4	342.11
P02525	Cryba1	Beta-crystallin A1	262.33
Q9JJU9	Crybb3	Beta-crystallin B3	188.71
Q9JJV1	Cryba2	Beta-crystallin A2	182.59
P04345	Cryga	Gamma-crystallin A	179.41
P24622	Cryaa	Alpha-crystallin A chain	155.10
P02088	Hbb-b1	Hemoglobin subunit beta-1	140.66
Q9WVJ5	Crybb1	Beta-crystallin B1	131.34
P70296	Pebp1	Phosphatidylethanolamine-binding protein 1	87.74
P09411	Pgk1	Phosphoglycerate kinase 1	63.82
Q5DTX6	Jcad	Junctional protein associated with coronary artery disease	57.60
Q9R0P9	Uchl1	Ubiquitin carboxyl-terminal hydrolase isozyme L1	45.38
P10649	Gstm1	Glutathione S-transferase Mu 1	43.79
P00920	Ca2	Carbonic anhydrase 2	41.42
P17182	Eno1	Alpha-enolase	39.81
P60710	Actb	Actin, cytoplasmic 1	37.63
P17742	Ppia	Peptidyl-prolyl cis-trans isomerase A	36.18
Q9CQI6	Cotl1	Coactosin-like protein	34.37
P17751	Tpi1	Triosephosphate isomerase	30.81
Q05816	Fabp5	Fatty acid-binding protein, epidermal	29.45
P19157	Gstp1	Glutathione S-transferase P 1	28.56
Q99LX0	Park7	Protein deglycase DJ-1	26.67
O08709	Prdx6	Peroxiredoxin-6	26.54
Q921I1	Tf	Serotransferrin	25.48
P11590	Mup4	Major urinary protein 4	25.35
Q9CPU0	Glo1	Lactoylglutathione lyase	25.27
O09131	Gsto1	Glutathione S-transferase omega-1	23.60
P62962	Pfn1	Profilin-1	21.17
Q9DBJ1	Pgam1	Phosphoglycerate mutase 1	17.95
Q8BGZ7	Krt75	Keratin, type II cytoskeletal 75	17.58
Q61598	Gdi2	Rab GDP dissociation inhibitor beta	17.39
P31786	Dbi	Acyl-CoA-binding protein	17.26
P16015	Ca3	Carbonic anhydrase 3	15.94
Q9R0P5	Dstn	Destrin	11.81
Q04447	Ckb	Creatine kinase B-type	11.74
Q6UGQ3	Scgb2b2	Secretoglobin family 2B member 2	11.55
P0CG49	Ubb	Polyubiquitin-B	11.24
P99029	Prdx5	Peroxiredoxin-5, mitochondrial	11.05
P27005	S100a8	Protein S100-A8	10.58
Q6XVG2	Cyp2c54	Cytochrome P450 2C54	10.23
P01942	Hba	Hemoglobin subunit alpha	10.00
P62774	Mtpn	Myotrophin	9.62
O09114	Ptgds	Prostaglandin-H2 D-isomerase	9.14
P07759	Serpina3k	Serine protease inhibitor A3K	8.34
Q8VDG3	Parn	Poly(A)-specific ribonuclease PARN	8.26
P23927	Cryab	Alpha-crystallin B chain	7.94
Q9EPR4	Slc23a2	Solute carrier family 23 member 2	7.52
P14152	Mdh1	Malate dehydrogenase, cytoplasmic	7.48
P62204	Calm1	Calmodulin	6.76
P68037	Ube2l3	Ubiquitin-conjugating enzyme E2 L3	6.65
P16858	Gapdh	Glyceraldehyde-3-phosphate dehydrogenase	6.56
Q00896	Serpina1c	Alpha-1-antitrypsin 1-3	6.37

P04938	Mup8	Major urinary proteins 11 and 8 (Fragment)	6.16
E9PZQ0	Ryr1	Ryanodine receptor 1	5.68
Q2VPA6	Helq	Helicase POLQ-like	5.29
P18760	Cfl1	Cofilin-1	4.51
P62827	Ran	GTP-binding nuclear protein Ran	4.23
Q8VED5	Krt79	Keratin, type II cytoskeletal 79	4.12
Q8BLN6	Unc80	Protein unc-80 homolog	4.07
Q9CR86	Carhsp1	Calcium-regulated heat stable protein 1	4.04
P63101	Ywhaz	14-3-3 protein zeta/delta	3.88
Q91X72	Hpx	Hemopexin	3.78
P70349	Hint1	Histidine triad nucleotide-binding protein 1	3.76
Q62048	Pea15	Astrocytic phosphoprotein PEA-15	3.69
O35639	Anxa3	Annexin A3	3.68
P40142	Tkt	Transketolase	3.15
Q8BFZ3	Actbl2	Beta-actin-like protein 2	3.09
P06151	Ldha	L-lactate dehydrogenase A chain	3.04
Q8VDD9	Phip	PH-interacting protein	2.71
Q9Z329	Itpr2	Inositol 1,4,5-trisphosphate receptor type 2	2.67
Q925F2	Esam	Endothelial cell-selective adhesion molecule	2.61
P98195	Atp9b	Probable phospholipid-transporting ATPase IIB	2.51
Q4ACU6	Shank3	SH3 and multiple ankyrin repeat domains protein 3	2.49
P20443	Sag	S-arrestin	2.48
Q7TNC6	Kif26b	Kinesin-like protein KIF26B	2.42
P10107	Anxa1	Annexin A1	2.41
Q66X22	Nlrp9b	NACHT, LRR and PYD domains-containing protein 9B	2.40
Q68G58	Apex2	DNA-(apurinic or apyrimidinic site) lyase 2	2.33
P31725	S100a9	Protein S100-A9	2.29
P56376	Acyp1	Acylphosphatase-1	2.22
Q3V1L6	Mtmt11	Myotubularin-related protein 11	2.22
Q9ERS4	Plekha3	Pleckstrin homology domain-containing family A member 3	2.22
P97477	Aurka	Aurora kinase A	2.22
P48758	Cbr1	Carbonyl reductase [NADPH] 1	2.18
P35922	Fmr1	Fragile X mental retardation protein 1 homolog	2.18
O35215	Ddt	D-dopachrome decarboxylase	2.14
P45376	Akr1b1	Aldose reductase	2.14
P42682	Txk	Tyrosine-protein kinase TXK	2.12
P47739	Aldh3a1	Aldehyde dehydrogenase, dimeric NADP-preferring	2.10
Q9CPV4	Glod4	Glyoxalase domain-containing protein 4	2.09
P49194	Rbp3	Retinol-binding protein 3	2.01
A2ASS6	Ttn	Titin	2.00
Q8K440	Abca8b	ATP-binding cassette sub-family A member 8-B	2.00
Q00897	Serpina1d	Alpha-1-antitrypsin 1-4	1.99
Q03734	Serpina3m	Serine protease inhibitor A3M	1.99
Q9QY00	Olf154	Olfactory receptor 154	1.98
P48036	Anxa5	Annexin A5	1.91
Q9Z275	Rlbp1	Retinaldehyde-binding protein 1	1.86
Q8BGY2	Eif5a2	Eukaryotic translation initiation factor 5A-2	1.86
Q06194	F8	Coagulation factor VIII	1.85
Q9JI02	Scgb2b20	Secretoglobin family 2B member 20	1.82
Q8VHL5	Crygn	Gamma-crystallin N	1.82
P10126	Eef1a1	Elongation factor 1-alpha 1	1.81
P05064	Aldoa	Fructose-bisphosphate aldolase A	1.79
P13634	Ca1	Carbonic anhydrase 1	1.78
Q923Q2	Stard13	StAR-related lipid transfer protein 13	1.76
Q7TSH8	Kiaa0195	Uncharacterized protein KIAA0195	1.76
Q6T264	Maml1	Mastermind-like protein 1	1.70
Q9DB32	Haghl	Hydroxyacylglutathione hydrolase-like protein	1.70
Q9R0P3	Esd	S-formylglutathione hydrolase	1.70
Q62130	Ptpn14	Tyrosine-protein phosphatase non-receptor type 14	1.70
Q9WV27	Atp1a4	Sodium/potassium-transporting ATPase subunit alpha-4	1.70
P63268	Actg2	Actin, gamma-enteric smooth muscle	1.66
P97493	Txn2	Thioredoxin, mitochondrial	1.65
Q91X56	S1pr5	Sphingosine 1-phosphate receptor 5	1.65
Q8R4R6	Nup35	Nucleoporin NUP53	1.6

P19137	Lama1	Laminin subunit alpha-1	1.62
Q9JLB4	Cubn	Cubilin	1.62
Q3UV71	Tmtc1	Transmembrane and TPR repeat-containing protein 1	1.62
Q5F2L2	Fut10	Alpha-(1,3)-fucosyltransferase 10	1.62
Q91W20	Lrrc26	Leucine-rich repeat-containing protein 26	1.62
E9Q6I0	Vmn2r116	Vomeronasal type-2 receptor 116	1.59
P24472	Gsta4	Glutathione S-transferase A4	1.59
Q01776	Gnrhr	Gonadotropin-releasing hormone receptor	1.59
Q923X1	Adgrl4	Adhesion G protein-coupled receptor L4	1.59
Q8VHE0	Sec63	Translocation protein SEC63 homolog	1.59
Q9D1U0	Grifin	Grifin	1.55
P52480	Pkm	Pyruvate kinase PKM	1.55
Q8C1Y8	Ccz1	Vacuolar fusion protein CCZ1 homolog	1.51
P35492	Hal	Histidine ammonia-lyase	1.51
O88737	Bsn	Protein bassoon	1.51
Q00175	Pgr	Progesterone receptor	1.51
Q9QW08	Pdc	Phosducin	1.47
Q61097	Ksr1	Kinase suppressor of Ras 1	1.44
Q8R516	Mib2	E3 ubiquitin-protein ligase MIB2	1.44
Q9Z0R4	Itsn1	Intersectin-1	1.44
P05063	Aldoc	Fructose-bisphosphate aldolase C	1.41
Q61391	Mme	Nepriylsin	1.41
Q7TMY8	Huwe1	E3 ubiquitin-protein ligase HUWE1	1.41
Q91XT6	Tc2n	Tandem C2 domains nuclear protein	1.41
Q9EPN1	Nbea	Neurobeachin	1.41
Q9QXE7	Tbl1x	F-box-like/WD repeat-containing protein TBL1X	1.41
P47880	Igfbp6	Insulin-like growth factor-binding protein 6	1.41
Q9JIB4	Gtf2h2	General transcription factor IIH subunit 2	1.41
P23949	Zfp36l2	Zinc finger protein 36, C3H1 type-like 2	1.41
Q9D287	Bcas2	Pre-mRNA-splicing factor SPF27	1.41
F6TQD1	Rnf212	Probable E3 SUMO-protein ligase RNF212	1.41