Electronic Supplementary Table 4. List of differentially abundant proteins in diabetic retina.

Accession	Gene Symbol	Name	db vs. wt *p*-value	fold change db/wt
ENSMUSP00000069692	4930572J05Rik	RIKEN cDNA 4930572J05 gene	0.002	0.2
ENSMUSP00000022317	5730469M10Rik	RIKEN cDNA 5730469M10 gene	0.048	0.3
ENSMUSP00000013995	Abca4	ATP-binding cassette, sub-family A (ABC1), member 4	0.046	1.7
ENSMUSP00000007251	Abhd16a	abhydrolase domain containing 16A	0.005	0.2
ENSMUSP00000027684	Arl8a	ADP-ribosylation factor-like 8A	0.018	0.4
ENSMUSP00000069962	Atad1	ATPase family, AAA domain containing 1	0.023	0.6
ENSMUSP00000039657	Atp1a1	ATPase, Na+/K+ transporting, alpha 1 polypeptide	0.041	0.8
ENSMUSP00000027863	Atp1b1	ATPase, Na+/K+ transporting, beta 1 polypeptide	0.006	0.8
ENSMUSP00000020107	Atp2b1	ATPase, Ca++ transporting, plasma membrane 1	0.035	0.8
ENSMUSP00000033744	Atp2b3	ATPase, Ca++ transporting, plasma membrane 3	0.022	0.5
ENSMUSP00000113022	Atp5f1	ATP synthase, H+ transporting, mitochondrial F0 complex, subunit B1	0.038	0.6
ENSMUSP00000019231	Atp6ap1	ATPase, H+ transporting, lysosomal accessory protein 1	0.016	0.02
ENSMUSP00000027853	Brp44	brain protein 44	0.003	0.2
ENSMUSP00000045654	Brp44l	brain protein 44-like	0.017	0.7
ENSMUSP00000049457	Cacna2d1	calcium channel, voltage-dependent, alpha2/delta subunit 1	0.002	0.4
ENSMUSP00000063359	Camk2d	calcium/calmodulin-dependent protein kinase II, delta	0.020	0.3
ENSMUSP00000071720	Camk2g	calcium/calmodulin-dependent protein kinase II gamma	0.002	0.3
ENSMUSP00000025166	Cdh2	cadherin 2	0.012	2.0
ENSMUSP00000050336	Ckap4	cytoskeleton-associated protein 4	0.045	0.6
ENSMUSP00000034881	Cox7a2	cytochrome c oxidase, subunit VIIa 2	0.003	0.2
ENSMUSP00000033582	Cox7b	cytochrome c oxidase subunit VIIb	0.043	0.5
ENSMUSP00000025835	Cpt1a	carnitine palmitoyltransferase 1a, liver	0.044	0.3
ENSMUSP00000130294	Ctbp2	C-terminal binding protein 2	0.022	0.5
ENSMUSP00000030538	Ddost	dolichyl-di-phosphooligosaccharide-protein glycotransferase	0.004	0.3

ENSMUSP00000055535	Ddx17	DEAD (Asp-Glu-Ala-Asp) box polypeptide 17	0.042	0.4
ENSMUSP00000099012	Dpp6	dipeptidylpeptidase 6	0.004	0.3
ENSMUSP00000052287	Elmod2	ELMO domain containing 2	0.028	1.6
ENSMUSP00000133820	Fus	fusion, derived from t(12;16) malignant liposarcoma (human)	0.022	0.1
ENSMUSP00000029654	Glrb	glycine receptor, beta subunit	0.012	0.3
ENSMUSP00000104690	Gm14399	predicted gene 14399	0.048	0.3
ENSMUSP00000100802	Gm4294	predicted gene 4294	0.039	3.0
ENSMUSP00000085850	Gm6543	predicted gene 6543	0.025	0.1
ENSMUSP00000128163	Gm6793	predicted gene 6793	0.007	0.01
ENSMUSP00000076607	Gm7536	predicted gene 7536	0.020	0.3
ENSMUSP00000046557	Gng12	guanine nucleotide binding protein (G protein), gamma 12	0.028	0.1
ENSMUSP00000110760	Gng13	guanine nucleotide binding protein (G protein), gamma 13	0.005	0.2
ENSMUSP00000055256	Gng2	guanine nucleotide binding protein (G protein), gamma 2	0.008	0.5
ENSMUSP00000093978	Gng3	guanine nucleotide binding protein (G protein), gamma 3	0.027	0.4
ENSMUSP00000016081	H2afy	H2A histone family, member Y	0.037	0.3
ENSMUSP00000016703	H3f3b	H3 histone, family 3B	0.027	0.2
ENSMUSP00000085006	Hist1h4j	histone cluster 1, H4j	0.038	0.3
ENSMUSP00000072195	Hk1	hexokinase 1	0.025	0.4
ENSMUSP00000043390	Icmt	isoprenylcysteine carboxyl methyltransferase	0.001	0.6
ENSMUSP00000032399	Kras	v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog	0.002	0.5
ENSMUSP00000025486	Lmnb1	lamin B1	0.007	2.0
ENSMUSP00000026013	Maoa	monoamine oxidase A	0.012	0.5
ENSMUSP00000055776	Mlec	malectin	0.040	0.1
ENSMUSP00000121668	Mlxipl	MLX interacting protein-like	0.022	0.4
ENSMUSP00000107092	Mtch2	mitochondrial carrier homolog 2 (C. elegans)	0.048	0.6
ENSMUSP00000080991	mt-Nd1	mitochondrially encoded NADH dehydrogenase 1	0.016	0.1
ENSMUSP00000080998	mt-Nd3	mitochondrially encoded NADH dehydrogenase 3	0.027	0.5
ENSMUSP00000081000	mt-Nd4	mitochondrially encoded NADH dehydrogenase 4	0.007	0.4
ENSMUSP00000081001	mt-Nd5	mitochondrially encoded NADH dehydrogenase 5	0.013	0.2
ENSMUSP00000073261	Mtx1	metaxin 1	0.049	0.4

ENSMUSP00000021170	Mxra7	matrix-remodelling associated 7	0.043	1.4
ENSMUSP00000045864	Nceh1	arylacetamide deacetylase-like 1	0.018	0.4
ENSMUSP00000112744	Ncln	nicalin homolog (zebrafish)	0.002	0.5
ENSMUSP00000002452	Ndufa11	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex 11	0.001	0.3
ENSMUSP00000020209	Ndufa12	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 12	0.004	0.2
ENSMUSP00000105796	Ndufa13	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 13	0.013	0.6
ENSMUSP00000031637	Ndufa4	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 4	0.013	0.4
ENSMUSP00000085523	Ndufa9	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 9	0.003	0.5
ENSMUSP00000043543	Ndufb10	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 10	0.027	1.9
ENSMUSP00000092746	Ndufb6	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 6	0.011	0.5
ENSMUSP00000041132	Negr1	neuronal growth regulator 1	0.004	1.5
ENSMUSP00000079289	Opn1sw	opsin 1 (cone pigments), short-wave-sensitive (color blindness, tritan)	0.041	2.3
ENSMUSP00000004375	Phb2	prohibitin 2	0.009	1.3
ENSMUSP00000065511	Rgs9bp	regulator of G-protein signalling 9 binding protein	0.050	1.8
ENSMUSP00000093961	Rom1	rod outer segment membrane protein 1	0.002	2.7
ENSMUSP00000058368	Rpl18a	ribosomal protein L18A	0.046	0.4
ENSMUSP00000092502	Rps2	ribosomal protein S2	0.023	0.3
ENSMUSP00000099878	Rps6	ribosomal protein S6	0.048	0.5
ENSMUSP00000035898	Scamp5	secretory carrier membrane protein 5	0.038	2.1
ENSMUSP00000106968	Sdhc	succinate dehydrogenase complex, subunit C, integral membrane protein	0.010	0.4
ENSMUSP00000017884	Slc12a5	solute carrier family 12, member 5	0.017	0.6
ENSMUSP00000082489	Slc17a7	solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter), member 7	0.015	0.3
ENSMUSP00000005493	Slc1a3	solute carrier family 1 (glial high affinity glutamate transporter), member 3	0.004	0.5
ENSMUSP00000003622	Slc25a1	solute carrier family 25 (mitochondrial carrier, citrate transporter), member 1	0.028	0.4
ENSMUSP00000034049	Slc25a4	solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 4	0.004	0.6

ENSMUSP00000016463	Slc25a5	solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 5	0.037	0.7
ENSMUSP00000010208	Slc38a3	solute carrier family 38, member 3	0.022	1.4
ENSMUSP00000109173	Slc4a3	solute carrier family 4 (anion exchanger), member 3	0.006	0.1
ENSMUSP00000037576	Sv2a	synaptic vesicle glycoprotein 2 a	0.022	0.7
ENSMUSP00000082254	Sv2b	synaptic vesicle glycoprotein 2 b	0.009	0.6
ENSMUSP00000009727	Syngr1	synaptogyrin 1	0.046	0.4
ENSMUSP00000037583	Tmed10	transmembrane emp24-like trafficking protein 10 (yeast)	0.014	0.3
ENSMUSP00000023062	Tomm22	translocase of outer mitochondrial membrane 22 homolog (yeast)	0.037	0.4
ENSMUSP00000027738	Tor1aip1	torsin A interacting protein 1	0.006	0.3
ENSMUSP00000060246	Tubb2a	tubulin, beta 2A class IIA	0.049	0.4
ENSMUSP00000071135	Tubb4a	tubulin, beta 4A class IVA	0.001	0.1
ENSMUSP00000001566	Tubb5	tubulin, beta 5 class I	0.013	0.4
ENSMUSP00000019649	Ubb	ubiquitin B	0.000	2.7
ENSMUSP00000054856	Uqcr10	ubiquinol-cytochrome c reductase, complex III subunit X	0.045	0.4
ENSMUSP00000021993	Uqcrb	ubiquinol-cytochrome c reductase binding protein	0.036	9.6
ENSMUSP00000026743	Uqcrc1	ubiquinol-cytochrome c reductase core protein 1	0.006	2.0
ENSMUSP00000024897	Vapa	vesicle-associated membrane protein, associated protein A	0.048	3.1
ENSMUSP00000020673	Vdac1	voltage-dependent anion channel 1	0.009	0.6
ENSMUSP00000022293	Vdac2	voltage-dependent anion channel 2	0.049	0.7