

Supplemental Table 3. Proteins with significantly altered expression in *Obscn-AIg58/59* atria at 12-months.

Gene	Protein Name	Fold Change	P-value
<i>ACADSB</i>	Acyl-Coenzyme A dehydrogenase, short/branched chain	3.60	1.9E-08
<i>CIQBP</i>	Complement component 1, q subcomponent binding protein	1.78	5.7E-05
<i>C4B</i>	Complement component 4B (Chido blood group)	-1.77	1.0E-02
<i>CD151</i>	CD151 antigen	-1.76	1.9E-02
<i>COX5A</i>	Cytochrome c oxidase subunit 5A	-1.98	6.0E-05
<i>EIF2S3X</i>	Eukaryotic translation initiation factor 2, subunit 3, structural gene X-linked	-1.90	3.5E-03
<i>EIF4G2</i>	Eukaryotic translation initiation factor 4, gamma 2	1.68	1.2E-03
<i>ELOC</i>	Elongin C	-1.81	7.3E-04
<i>FERMT3</i>	Fermitin family member 3	1.89	1.2E-05
<i>GLRX5</i>	Glutaredoxin 5	2.03	1.5E-02
<i>GOLT1B</i>	Golgi transport 1B	1.91	9.4E-05
<i>GRXCR1</i>	Glutaredoxin, cysteine rich 1	1.80	1.7E-03
<i>HDLBP</i>	High density lipoprotein (HDL) binding protein	1.73	6.3E-03
<i>HMOX2</i>	Heme oxygenase 2	1.66	3.7E-03
<i>IGHV1-26</i>	Immunoglobulin heavy variable 1-26	4.27	1.5E-04
<i>IGHV7-3</i>	Immunoglobulin heavy variable 7-3	1.85	2.0E-02
<i>IGKV3-2</i>	Immunoglobulin kappa variable 3-2	-2.95	1.5E-05
<i>IGKV8-27</i>	Immunoglobulin kappa chain variable 8-27	-3.85	3.5E-05
<i>KANK2</i>	KN motif and ankyrin repeat domains 2	-1.82	7.8E-06
<i>KRT1</i>	Keratin 1	-2.35	1.3E-04
<i>KRT5</i>	Keratin 5	-16.44	3.1E-09
<i>KRT6A</i>	Keratin 6A	-5.39	6.4E-07
<i>KRT14</i>	Keratin 14	-29.48	3.4E-12
<i>KRT16</i>	Keratin 16	-10.18	1.9E-03
<i>KRT17</i>	Keratin 17	-9.51	3.1E-05
<i>KRT42</i>	Keratin 42	-7.17	3.0E-05
<i>MCCC1</i>	Methylcrotonoyl-Coenzyme A carboxylase 1 (alpha)	-2.05	1.3E-08
<i>MLYCD</i>	Malonyl-CoA decarboxylase	-1.87	1.9E-05
<i>NAALAD2</i>	N-acetylated alpha-linked acidic dipeptidase 2	-16.41	6.3E-11
<i>OBSCN</i>	Obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF	-1.81	3.3E-03
<i>PEBP1</i>	Phosphatidylethanolamine binding protein 1	1.74	4.4E-06
<i>PPID</i>	Peptidylprolyl isomerase D (cyclophilin D)	-2.03	4.4E-05
<i>PSMB3</i>	Proteasome (prosome, macropain) subunit, beta type 3	-1.81	1.0E-02

<i>PSMD4</i>	Proteasome (prosome, macropain) 26S subunit, non-ATPase, 4	1.68	5.5E-03
<i>RAB18</i>	RAB18, member RAS oncogene family	1.91	1.5E-05
<i>RAB8A</i>	RAB8A, member RAS oncogene family	-1.93	1.7E-04
<i>RHOC</i>	Ras homolog family member C	-1.94	6.5E-03
<i>RPLP2</i>	Ribosomal protein, large P2	-1.68	2.6E-05
<i>SAMHD1</i>	SAM domain and HD domain, 1	-2.07	7.2E-05
<i>SLC2A4</i>	Solute carrier family 2 (facilitated glucose transporter), member 4	1.95	2.2E-07
<i>SLMAP</i>	Sarcolemma associated protein	-3.49	1.4E-03
<i>SND1</i>	Staphylococcal nuclease and tudor domain containing 1	2.05	1.4E-02
<i>STARD10</i>	START domain containing 10	-2.07	4.8E-02
<i>STK24</i>	Serine/threonine kinase 24	1.72	2.7E-03
<i>TARS</i>	Threonyl-tRNA synthetase	6.49	4.5E-08
<i>TAX1BP3</i>	Tax1 (human T cell leukemia virus type I) binding protein 3	1.80	1.9E-02
<i>TNSI</i>	Tensin 1	1.74	6.7E-06
<i>WIPI1</i>	WD repeat domain, phosphoinositide interacting 1	1.66	2.3E-05