

**Table S1.** List of Proteins Identified by the Proteomic Analysis. Proteins are sorted by the calculated  $R_{SC}$  value as described in the text. Proteins determined to be enriched in the analysis are italicized. Red and green shaded boxes are those proteins enriched in the  $BBMV_{PCT}$  and  $BBMV_{CTX}$  groups, respectively. MW: molecular weight in kDa, TMD: predicted number of transmembrane domains, SpC: Spectral counts of the identified proteins for each biological sample,  $\Sigma SpC$ : the sum of the SpC for each group, p: the FET calculated p values, BY<sub>p</sub>: the adjusted p values using the method of Benjamini and Yekutieli (2001).

Protein	Gene	IPI	MW	TMD	SpC				$\Sigma SpC$		Rsc	p	BY <sub>p</sub>
					$BBMV_{CTX1}$	$BBMV_{CTX2}$	$BBMV_{PCT1}$	$BBMV_{PCT2}$	$BBMV_{CTX}$	$BBMV_{PCT}$			
<i>ATP synthase subunit beta</i>	<i>Atp5b</i>	<i>IPI00551812</i>	56	0	0	0	96	171	0	267	9.1	0.0000	0.0000
<i>Hydroxyacid oxidase 2</i>	<i>Hao2</i>	<i>IPI00231245</i>	39	0	0	0	66	7	0	73	7.2	0.0000	0.0000
<i>ATP synthase subunit O</i>	<i>Atp5o</i>	<i>IPI00195123</i>	23	0	0	0	26	39	0	65	7.0	0.0000	0.0000
<i>p55 protein</i>	<i>LOC652956</i>	<i>IPI00464886</i>	51	0	0	0	34	22	0	56	6.8	0.0000	0.0000
<i>Cytochrome b-c1 complex subunit Rieske</i>	<i>Uqcrrs1</i>	<i>IPI00362949</i>	29	0	0	0	14	28	0	42	6.4	0.0000	0.0000
<i>Rat alpha-2u-globulin</i>	<i>LOC298116</i>	<i>IPI00464895</i>	21	0	0	0	24	10	0	34	6.1	0.0000	0.0000
<i>NADH dehydrogenase (ubiquinone) 1 alpha subcomplex 10-like</i>	<i>Ndufa10l1</i>	<i>IPI00189759</i>	41	0	0	0	15	16	0	31	6.0	0.0000	0.0000
<i>Malate dehydrogenase, cytoplasmic</i>	<i>Mdh1</i>	<i>IPI00198717</i>	36	0	0	0	24	7	0	31	6.0	0.0000	0.0000
<i>Ribonuclease UK114</i>	<i>Hrsp12</i>	<i>IPI00231292</i>	14	0	0	0	23	5	0	28	5.8	0.0000	0.0000
<i>A kinase (PRKA) anchor protein 2</i>	<i>Akap2</i>	<i>IPI00364858</i>	96	0	0	0	3	25	0	28	5.8	0.0000	0.0000
<i>Glutathione peroxidase 1</i>	<i>Gpx1</i>	<i>IPI00192301</i>	22	0	0	0	14	13	0	27	5.8	0.0000	0.0000
<i>Fructose-bisphosphate aldolase A</i>	<i>Aldoa</i>	<i>IPI00231734</i>	39	0	0	0	15	10	0	25	5.6	0.0000	0.0000
<i>Cytochrome b-c1 complex subunit 1</i>	<i>Uqcrc1</i>	<i>IPI00471577</i>	53	0	0	0	7	18	0	25	5.6	0.0000	0.0000
<i>ATP synthase, H+ transporting, F0 complex, subunit G</i>	<i>Atp5l</i>	<i>IPI00421711</i>	11	0	0	0	7	15	0	22	5.5	0.0000	0.0000
<i>NADH dehydrogenase [ubiquinone] flavoprotein 2</i>	<i>Ndufv2</i>	<i>IPI00367152</i>	27	0	0	0	6	16	0	22	5.5	0.0000	0.0000
<i>Isocitrate dehydrogenase [NADP] cytoplasmic</i>	<i>Idh1</i>	<i>IPI00194045</i>	47	0	0	0	12	6	0	18	5.2	0.0000	0.0002
<i>Rab GDP dissociation inhibitor beta</i>	<i>Gdi2</i>	<i>IPI00197568</i>	51	0	0	0	17	1	0	18	5.2	0.0000	0.0002
<i>Nucleoside diphosphate kinase B</i>	<i>Nme2</i>	<i>IPI00325189</i>	17	0	0	0	18	0	0	18	5.2	0.0000	0.0002
<i>Histidine triad nucleotide-binding protein 1</i>	<i>Hint1</i>	<i>IPI00231146</i>	14	0	0	0	12	4	0	16	5.0	0.0000	0.0005
<i>Glyceraldehyde-3-phosphate dehydrogenase</i>	<i>Gapdh</i>	<i>IPI00555252</i>	36	0	0	5	85	88	5	173	5.0	0.0000	0.0000
ATP synthase gamma chain	<i>Atp5c1</i>	<i>IPI00454288</i>	68	0	0	0	9	6	0	15	4.9	0.0001	0.0010
Isoform 1 of Catechol O-methyltransferase	<i>Comt</i>	<i>IPI00210280</i>	30	1	0	0	11	4	0	15	4.9	0.0001	0.0010
Calcium-binding mitochondrial carrier protein Aralar2	<i>Slc25a13</i>	<i>IPI00358163</i>	74	0	0	0	3	12	0	15	4.9	0.0001	0.0010
Cytochrome c oxidase subunit 4 isoform 1	<i>Cox4i1</i>	<i>IPI00194222</i>	20	1	0	0	0	14	0	14	4.8	0.0001	0.0019
Isoform 1 of Kynurenine--oxoglutarate transaminase 1	<i>Ccbl1</i>	<i>IPI00411232</i>	52	0	0	0	9	4	0	13	4.7	0.0002	0.0037
<b><i>44 kDa protein, enolase 1, (alpha) isoform 1</i></b>	<b><i>Eno1a</i></b>	<b><i>IPI00782342</i></b>	<b>44</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>36</b>	<b>24</b>	<b>2</b>	<b>60</b>	<b>4.6</b>	<b>0.0000</b>	<b>0.0000</b>
<b><i>ATP synthase subunit alpha</i></b>	<b><i>Atp5a1</i></b>	<b><i>IPI00396910</i></b>	<b>60</b>	<b>0</b>	<b>0</b>	<b>12</b>	<b>130</b>	<b>161</b>	<b>12</b>	<b>291</b>	<b>4.5</b>	<b>0.0000</b>	<b>0.0000</b>
<b><i>91 kDa protein, Erythrocyte protein band 4.1-like 3</i></b>	<b><i>Epb4.1l3</i></b>	<b><i>IPI00558692</i></b>	<b>91</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>17</b>	<b>17</b>	<b>1</b>	<b>34</b>	<b>4.5</b>	<b>0.0000</b>	<b>0.0000</b>
Aromatic-L-amino-acid decarboxylase	<i>Ddc</i>	<i>IPI00567511</i>	54	0	0	0	11	0	0	11	4.5	0.0010	0.0126
hypothetical protein LOC304650	<i>RGD1310262</i>	<i>IPI00371643</i>	23	0	0	0	3	8	0	11	4.5	0.0010	0.0126
Cytochrome c oxidase subunit 5A	<i>Cox5a</i>	<i>IPI00192246</i>	16	0	0	0	2	9	0	11	4.5	0.0010	0.0126
NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 10	<i>Ndufb10</i>	<i>IPI00202238</i>	21	0	0	0	1	9	0	10	4.4	0.0020	0.0241
<b><i>similar to glyceraldehyde-3-phosphate dehydrogenase</i></b>	<b><i>RGD1565368</i></b>	<b><i>IPI00554039</i></b>	<b>36</b>	<b>0</b>	<b>1</b>	<b>8</b>	<b>92</b>	<b>91</b>	<b>9</b>	<b>183</b>	<b>4.3</b>	<b>0.0000</b>	<b>0.0000</b>
Phosphate carrier protein	<i>Slc25a3</i>	<i>IPI00562259</i>	39	2	0	0	2	7	0	9	4.2	0.0039	0.0469
Isoform 2 of Tropomyosin alpha-3 chain	<i>Tpm3</i>	<i>IPI00210941</i>	29	0	0	0	2	7	0	9	4.2	0.0039	0.0469
<b><i>Alpha-enolase</i></b>	<b><i>Eno1</i></b>	<b><i>IPI00464815</i></b>	<b>47</b>	<b>0</b>	<b>6</b>	<b>2</b>	<b>108</b>	<b>49</b>	<b>8</b>	<b>157</b>	<b>4.2</b>	<b>0.0000</b>	<b>0.0000</b>
Phosphoglycerate mutase 1	<i>Pgam1</i>	<i>IPI00421428</i>	29	0	0	0	6	2	0	8	4.1	0.0078	0.0892
C-1-tetrahydrofolate synthase, cytoplasmic	<i>Mthfd1</i>	<i>IPI00231356</i>	101	0	0	0	1	7	0	8	4.1	0.0078	0.0892

Protein	Gene	IPI	MW	TMD	SpC				ΣSpC		Rsc	p	BY <sub>p</sub>
					BBMV <sub>CTX1</sub>	BBMV <sub>CTX2</sub>	BBMV <sub>PCT1</sub>	BBMV <sub>PCT2</sub>	BBMV <sub>CTX</sub>	BBMV <sub>PCT</sub>			
cytochrome c-1	Cyc1	IPI00366416	35	0	0	0	1	7	0	8	4.1	0.0078	0.0892
ATP synthase subunit d	Atp5h	IPI00230838	19	0	0	0	1	7	0	8	4.1	0.0078	0.0892
Isoform Mitochondrial of Peroxiredoxin-5	Prdx5	IPI00205745	22	0	0	0	0	8	0	8	4.1	0.0078	0.0892
<b>Isoform 2 of Electrogenic sodium bicarbonate cotransporter 1</b>	<b>Slc4a4</b>	<b>IPI00679235</b>	<b>116</b>	<b>9</b>	<b>3</b>	<b>1</b>	<b>22</b>	<b>51</b>	<b>4</b>	<b>73</b>	<b>4.0</b>	<b>0.0000</b>	<b>0.0000</b>
<b>Cytochrome b-c1 complex subunit 2</b>	<b>Uqcrc2</b>	<b>IPI00188924</b>	<b>48</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>9</b>	<b>13</b>	<b>1</b>	<b>22</b>	<b>3.9</b>	<b>0.0000</b>	<b>0.0001</b>
Probable oxidoreductase C10orf33 homolog	Pyroxd2	IPI00470325	63	0	0	0	3	4	0	7	3.9	0.0156	0.1669
NADH-ubiquinone oxidoreductase 75 kDa subunit	Ndufs1	IPI00358033	79	0	0	0	2	5	0	7	3.9	0.0156	0.1669
Succinate dehydrogenase [ubiquinone] flavoprotein subunit	Sdha	IPI00200659	72	0	0	0	1	6	0	7	3.9	0.0156	0.1669
<b>transketolase</b>	<b>Tkt</b>	<b>IPI00231139</b>	<b>71</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>20</b>	<b>0</b>	<b>1</b>	<b>20</b>	<b>3.7</b>	<b>0.0000</b>	<b>0.0004</b>
<b>Phenylalanine-4-hydroxylase</b>	<b>Pah</b>	<b>IPI00193258</b>	<b>52</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>8</b>	<b>11</b>	<b>1</b>	<b>19</b>	<b>3.7</b>	<b>0.0000</b>	<b>0.0007</b>
Keratin, type II cytoskeletal 1	Krt1	IPI00421857	65	0	0	0	5	1	0	6	3.7	0.0313	0.3138
Cytoplasmic aconitate hydratase	Aco1	IPI00207003	98	0	0	0	4	2	0	6	3.7	0.0313	0.3138
Mitochondrial 2-oxoglutarate/malate carrier protein	Slc25a11	IPI00231261	34	0	0	0	0	6	0	6	3.7	0.0313	0.3138
<b>Isoform 2 of Basigin</b>	<b>Bsg</b>	<b>IPI00193425</b>	<b>30</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>41</b>	<b>13</b>	<b>4</b>	<b>54</b>	<b>3.6</b>	<b>0.0000</b>	<b>0.0000</b>
<b>Peptidyl-prolyl cis-trans isomerase A</b>	<b>Ppia</b>	<b>IPI00387771</b>	<b>18</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>19</b>	<b>10</b>	<b>2</b>	<b>29</b>	<b>3.5</b>	<b>0.0000</b>	<b>0.0000</b>
<b>Phosphoglycerate kinase 1</b>	<b>Pgk1</b>	<b>IPI00231426</b>	<b>45</b>	<b>0</b>	<b>1</b>	<b>4</b>	<b>41</b>	<b>22</b>	<b>5</b>	<b>63</b>	<b>3.5</b>	<b>0.0000</b>	<b>0.0000</b>
Protein DJ-1	Park7	IPI00212523	20	0	1	0	14	2	1	16	3.4	0.0003	0.0041
NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 5	Ndufa5	IPI00231997	13	0	0	0	3	2	0	5	3.4	0.0625	0.5694
Aminoacylase-1A	Acy1	IPI00464791	46	0	1	0	15	0	1	15	3.3	0.0005	0.0071
60 kDa protein, carboxylesterase ES-4	rCG_44273	IPI00558154	60	0	0	1	11	4	1	15	3.3	0.0005	0.0071
D-amino-acid oxidase	Dao	IPI00326225	39	0	0	1	3	12	1	15	3.3	0.0005	0.0071
<b>L-lactate dehydrogenase B chain</b>	<b>Ldhb</b>	<b>IPI00231783</b>	<b>37</b>	<b>0</b>	<b>5</b>	<b>1</b>	<b>52</b>	<b>8</b>	<b>6</b>	<b>60</b>	<b>3.2</b>	<b>0.0000</b>	<b>0.0000</b>
<b>Cofilin-1</b>	<b>Cfl1</b>	<b>IPI00327144</b>	<b>19</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>17</b>	<b>5</b>	<b>2</b>	<b>22</b>	<b>3.1</b>	<b>0.0000</b>	<b>0.0006</b>
Xaa-Pro dipeptidase	Pepd	IPI00364304	55	0	0	0	4	0	0	4	3.1	0.1251	1.0000
similar to procollagen, type IV, alpha 5	Col4a5	IPI00367440	161	0	0	0	3	1	0	4	3.1	0.1251	1.0000
similar to aldehyde dehydrogenase family 7, member A1	Aldh7a1	IPI00208917	59	0	0	0	2	2	0	4	3.1	0.1251	1.0000
Prohibitin-2	Phb2	IPI00190557	33	0	0	0	1	3	0	4	3.1	0.1251	1.0000
ATP synthase subunit b	Atp5f1	IPI00196107	29	0	0	0	1	3	0	4	3.1	0.1251	1.0000
Isoform 1 of Brain-specific angiogenesis inhibitor 1- protein 2	Baiap2	IPI00203614	59	0	0	0	0	4	0	4	3.1	0.1251	1.0000
<b>ADP/ATP translocase 2</b>	<b>Slc25a5</b>	<b>IPI00200466</b>	<b>33</b>	<b>2</b>	<b>0</b>	<b>10</b>	<b>46</b>	<b>43</b>	<b>10</b>	<b>89</b>	<b>3.1</b>	<b>0.0000</b>	<b>0.0000</b>
Integrin beta-1	Itgb1	IPI00191681	88	1	1	1	9	10	2	19	2.9	0.0002	0.0035
<b>Argininosuccinate synthase</b>	<b>Ass1</b>	<b>IPI00211127</b>	<b>46</b>	<b>0</b>	<b>12</b>	<b>12</b>	<b>112</b>	<b>74</b>	<b>24</b>	<b>186</b>	<b>2.9</b>	<b>0.0000</b>	<b>0.0000</b>
Collagen alpha-1(I) chain	Col1a1	IPI00188909	138	0	0	0	1	2	0	3	2.8	0.2501	1.0000
60S ribosomal protein L3	Rpl3	IPI00395285	46	0	0	0	1	2	0	3	2.8	0.2501	1.0000
78 kDa glucose-regulated protein	Hspa5	IPI00206624	72	0	0	0	1	2	0	3	2.8	0.2501	1.0000
ankyrin 3, epithelial isoform 2	Ank3	IPI00199445	284	0	0	0	0	3	0	3	2.8	0.2501	1.0000
ATP synthase-coupling factor 6	Atp5j	IPI00204316	12	0	0	0	0	3	0	3	2.8	0.2501	1.0000
<b>Sorbitol dehydrogenase</b>	<b>Sord</b>	<b>IPI00760137</b>	<b>38</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>38</b>	<b>3</b>	<b>6</b>	<b>41</b>	<b>2.6</b>	<b>0.0000</b>	<b>0.0000</b>
<b>Alcohol dehydrogenase [NADP+]</b>	<b>Akr1a1</b>	<b>IPI00230859</b>	<b>37</b>	<b>0</b>	<b>12</b>	<b>6</b>	<b>72</b>	<b>44</b>	<b>18</b>	<b>116</b>	<b>2.6</b>	<b>0.0000</b>	<b>0.0000</b>
<b>ADP,ATP carrier protein 2</b>	<b>Slc25a5</b>	<b>IPI00561209</b>	<b>22</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>29</b>	<b>31</b>	<b>10</b>	<b>60</b>	<b>2.5</b>	<b>0.0000</b>	<b>0.0000</b>
Acyl-coenzyme A synthetase ACSM2	Acsm2	IPI00198641	64	0	0	0	0	2	0	2	2.3	0.5000	1.0000
similar to FLJ44048 protein	Fsp2	IPI00767813	762	0	0	0	0	2	0	2	2.3	0.5000	1.0000

Protein	Gene	IPI	MW	TMD	SpC				ΣSpC		Rsc	p	BY <sub>p</sub>
					BBMV <sub>CTX1</sub>	BBMV <sub>CTX2</sub>	BBMV <sub>PCT1</sub>	BBMV <sub>PCT2</sub>	BBMV <sub>CTX</sub>	BBMV <sub>PCT</sub>			
Isoform 1 of Protein transport protein Sec31A	Sec31a	IPI00210147	135	0	0	0	0	2	0	2	2.3	0.5000	1.0000
Integrin alpha-1	Itga1	IPI00324585	131	2	0	0	0	2	0	2	2.3	0.5000	1.0000
Brain acid soluble protein 1	Basp1	IPI00231651	22	0	6	0	26	4	6	30	2.2	0.0001	0.0012
Cytochrome P450 2C23	Cyp2c23	IPI00327991	56	1	3	2	10	14	5	24	2.1	0.0006	0.0075
<b>Heat shock cognate 71 kDa protein</b>	<b>Hspa8</b>	<b>IPI00208205</b>	<b>71</b>	<b>0</b>	<b>16</b>	<b>20</b>	<b>84</b>	<b>72</b>	<b>36</b>	<b>156</b>	<b>2.1</b>	<b>0.0000</b>	<b>0.0000</b>
Triosephosphate isomerase	Tpi1	IPI00231767	27	0	5	1	16	11	6	27	2.1	0.0003	0.0048
<b>Spectrin alpha chain, brain</b>	<b>Spna2</b>	<b>IPI00209258</b>	<b>285</b>	<b>0</b>	<b>1</b>	<b>23</b>	<b>43</b>	<b>57</b>	<b>24</b>	<b>100</b>	<b>2.0</b>	<b>0.0000</b>	<b>0.0000</b>
<b>Alpha-actinin-4</b>	<b>Actn4</b>	<b>IPI00213463</b>	<b>105</b>	<b>0</b>	<b>32</b>	<b>39</b>	<b>134</b>	<b>148</b>	<b>71</b>	<b>282</b>	<b>2.0</b>	<b>0.0000</b>	<b>0.0000</b>
<b>Non-erythrocyte beta-spectrin</b>	<b>Sptbn1</b>	<b>IPI00373419</b>	<b>251</b>	<b>0</b>	<b>7</b>	<b>16</b>	<b>32</b>	<b>55</b>	<b>23</b>	<b>87</b>	<b>1.9</b>	<b>0.0000</b>	<b>0.0000</b>
ATP-dependent dihydroxyacetone kinase/FAD-AMP lyase	Dak	IPI00372498	59	0	1	0	5	0	1	5	1.8	0.2188	1.0000
<b>Fructose-1,6-bisphosphatase 1</b>	<b>Fbp1</b>	<b>IPI00231745</b>	<b>40</b>	<b>0</b>	<b>29</b>	<b>12</b>	<b>87</b>	<b>51</b>	<b>41</b>	<b>138</b>	<b>1.7</b>	<b>0.0000</b>	<b>0.0000</b>
<b>Elongation factor 1-alpha 1</b>	<b>Eef1a1</b>	<b>IPI00195372</b>	<b>50</b>	<b>0</b>	<b>7</b>	<b>29</b>	<b>45</b>	<b>71</b>	<b>36</b>	<b>116</b>	<b>1.7</b>	<b>0.0000</b>	<b>0.0000</b>
<b>Superoxide dismutase [Cu-Zn]</b>	<b>Sod1</b>	<b>IPI00231643</b>	<b>16</b>	<b>0</b>	<b>12</b>	<b>4</b>	<b>27</b>	<b>25</b>	<b>16</b>	<b>52</b>	<b>1.6</b>	<b>0.0000</b>	<b>0.0003</b>
11 kDa protein, Histone H4	H4	IPI00231340	11	0	1	8	19	10	9	29	1.6	0.0017	0.0212
Chloride intracellular channel protein 1	Clic1	IPI00421995	27	0	10	1	19	15	11	34	1.6	0.0008	0.0111
Cytosolic non-specific dipeptidase	Cndp2	IPI00421899	53	0	1	0	3	1	1	4	1.6	0.3751	1.0000
similar to aldehyde dehydrogenase 8 family, member A1 isoform 2	LOC683474	IPI00359623	53	0	3	9	20	16	12	36	1.5	0.0007	0.0097
Heat shock protein HSP 90-beta	Hsp90ab1	IPI00471584	83	0	7	12	36	16	19	52	1.4	0.0001	0.0019
Voltage-dependent anion-selective channel protein 2	Vdac2	IPI00198327	32	0	0	5	0	14	5	14	1.4	0.0637	0.5771
14-3-3 protein zeta/delta	Ywhaz	IPI00324893	28	0	14	4	34	14	18	48	1.4	0.0003	0.0043
Cytoplasmic dynein 1 heavy chain 1	Dync1h1	IPI00327630	532	0	3	4	11	8	7	19	1.4	0.0291	0.2972
glutathione S-transferase, theta 3	Gstt3	IPI00915569	23	0	1	1	5	1	2	6	1.4	0.2892	1.0000
<b>Sulfotransferase 1C2</b>	<b>Sult1c2</b>	<b>IPI00204467</b>	<b>35</b>	<b>0</b>	<b>22</b>	<b>6</b>	<b>41</b>	<b>31</b>	<b>28</b>	<b>72</b>	<b>1.3</b>	<b>0.0000</b>	<b>0.0003</b>
<b>Fructose-bisphosphate aldolase</b>	<b>Aldob</b>	<b>IPI00876620</b>	<b>40</b>	<b>0</b>	<b>38</b>	<b>92</b>	<b>164</b>	<b>163</b>	<b>130</b>	<b>327</b>	<b>1.3</b>	<b>0.0000</b>	<b>0.0000</b>
UPF0404 protein C11orf59 homolog	MGC72560	IPI00207707	18	0	1	5	14	2	6	16	1.3	0.0527	0.4927
<b>Isoform 1 of Mucin and cadherin-like protein</b>	<b>Mucdhl</b>	<b>IPI00200640</b>	<b>91</b>	<b>1</b>	<b>19</b>	<b>29</b>	<b>72</b>	<b>43</b>	<b>48</b>	<b>115</b>	<b>1.2</b>	<b>0.0000</b>	<b>0.0000</b>
<b>Na(+)/H(+) exchange regulatory cofactor NHE-RF1</b>	<b>Slc9a3r1</b>	<b>IPI00200898</b>	<b>39</b>	<b>0</b>	<b>25</b>	<b>44</b>	<b>66</b>	<b>95</b>	<b>69</b>	<b>161</b>	<b>1.2</b>	<b>0.0000</b>	<b>0.0000</b>
Histone H2A	H2A	IPI00188688	14	0	0	8	9	10	8	19	1.2	0.0525	0.4927
Membrane-bound carbonic anhydrase 12	Car12	IPI00366665	40	1	6	3	13	7	9	20	1.1	0.0617	0.5646
Sulfotransferase 1C2A	Sult1c2a	IPI00204469	35	0	18	6	27	25	24	52	1.1	0.0018	0.0226
60S acidic ribosomal protein P2	Rplp2	IPI00188804	12	0	3	4	8	7	7	15	1.0	0.1341	1.0000
Ras-related protein Rab-7a	Rab7a	IPI00215564	24	0	5	29	51	15	34	66	0.9	0.0019	0.0230
Alpha-2-macroglobulin receptor-associated protein	Lrpap1	IPI00364124	42	0	1	2	6	0	3	6	0.9	0.5079	1.0000
similar to Heterogeneous nuclear ribonucleoprotein A1	Hdp1	IPI00567346	35	0	2	1	3	3	3	6	0.9	0.5079	1.0000
Glutamate dehydrogenase 1	Glud1	IPI00324633	61	0	2	10	0	22	12	22	0.8	0.1219	1.0000
Peroxiredoxin-1	Prdx1	IPI00211779	22	0	36	24	32	76	60	108	0.8	0.0004	0.0051
Heat shock protein HSP 90-alpha	Hsp90aa1	IPI00210566	85	0	10	16	32	13	26	45	0.8	0.0323	0.3206
Chloride intracellular channel protein 4	Clic4	IPI00208249	29	0	29	32	36	68	61	104	0.7	0.0013	0.0169
4F2 cell-surface antigen heavy chain	Slc3a2	IPI00211616	58	1	57	57	105	86	114	191	0.7	0.0000	0.0004
Ubc protein	Ubc	IPI00476033	48	0	11	16	28	16	27	44	0.7	0.0574	0.5314
Sodium- and chloride-dependent creatine transporter 1	Slc6a8	IPI00325655	71	12	0	6	4	6	6	10	0.7	0.4547	1.0000
Tumor-associated calcium signal transducer 1	Epcam	IPI00324820	35	1	9	9	16	13	18	29	0.6	0.1445	1.0000

Protein	Gene	IPI	MW	TMD	SpC				ΣSpC		Rsc	p	BY <sub>p</sub>
					BBMV <sub>CTX1</sub>	BBMV <sub>CTX2</sub>	BBMV <sub>PCT1</sub>	BBMV <sub>PCT2</sub>	BBMV <sub>CTX</sub>	BBMV <sub>PCT</sub>			
Isoform p82 of Disabled homolog 2	Dab2	IPI00212608	82	0	17	40	44	47	57	91	0.6	0.0082	0.0929
ATPase, H transporting, lysosomal V1 subunit G1	Atp6v1g1	IPI00199600	14	0	20	22	39	26	42	65	0.6	0.0415	0.4041
Actin-related protein 3	Actr3	IPI00363828	48	0	2	5	6	5	7	11	0.6	0.4810	1.0000
Glutamate carboxypeptidase 2	Folh1	IPI00190555	85	1	24	24	47	23	48	70	0.5	0.0647	0.5824
PDZK1-interacting protein 1	Pdzk1ip1	IPI00203992	12	1	20	25	28	37	45	65	0.5	0.0851	0.7544
14-3-3 protein epsilon	Ywhae	IPI00325135	29	0	7	0	7	3	7	10	0.5	0.6293	1.0000
ATPase, H+ transporting, lysosomal V1 subunit H	Atp6v1h	IPI00364780	51	0	18	30	29	37	48	66	0.4	0.1330	1.0000
V-type proton ATPase subunit B, brain isoform	Atp6v1b2	IPI00199305	57	0	117	115	144	163	232	307	0.4	0.0027	0.0327
30 kDa protein,Protein fem-1 homolog C	Fem1c	IPI00781207	30	0	1	2	3	1	3	4	0.3	1.0000	1.0000
Tubulin alpha-4A chain	Tuba4a	IPI00362927	50	0	17	31	28	32	48	60	0.3	0.3351	1.0000
Na+/K+ -ATPase a-1	Atp1a1	IPI00326305	113	10	357	371	480	415	728	895	0.3	0.0001	0.0021
Protein NDRG1	Ndr1	IPI00421389	43	0	7	11	12	10	18	22	0.3	0.6363	1.0000
Sodium/potassium-transporting ATPase subunit a-3	Atp1a3	IPI00231451	112	8	142	139	202	135	281	337	0.2	0.0465	0.4448
Voltage-dependent anion-selective channel protein 1	Vdac1	IPI00421874	31	0	8	38	15	40	46	55	0.2	0.4856	1.0000
EH domain-containing protein 1	Ehd1	IPI00360340	61	0	18	25	25	26	43	51	0.2	0.4719	1.0000
Macrophage migration inhibitory factor	Mif	IPI00230907	12	0	5	0	5	1	5	6	0.2	1.0000	1.0000
Mitogen-activated protein kinase scaffold protein 1	Map2k1ip1	IPI00373435	14	0	1	4	4	2	5	6	0.2	1.0000	1.0000
Sodium/potassium-transporting ATPase subunit beta-1	Atp1b1	IPI00339124	35	1	107	127	147	125	234	272	0.2	0.1515	1.0000
Isoform 1 of Tubulin beta-5 chain	Tubb5	IPI00197579	50	0	26	41	40	38	67	78	0.2	0.4542	1.0000
V-type proton ATPase subunit E 1	Atp6v1e1	IPI00400615	26	0	48	61	55	65	109	120	0.1	0.5959	1.0000
Actin, a skeletal muscle	Acta1	IPI00189813	42	0	194	218	207	236	412	443	0.1	0.4458	1.0000
Protein FAM151A	Fam151a	IPI00471666	67	1	24	18	20	25	42	45	0.1	0.8309	1.0000
Cadherin 16	Cdh16	IPI00471800	90	1	19	25	23	24	44	47	0.1	0.8346	1.0000
Ezrin	Ezr	IPI00470254	69	0	144	184	158	185	328	343	0.0	0.7551	1.0000
Actin, cytoplasmic 1	Actb	IPI00189819	42	0	356	478	385	474	834	859	0.0	0.8417	1.0000
Vanin 1	Vnn1	IPI00371710	57	0	0	2	2	0	2	2	0.0	1.0000	1.0000
Potential RabGAP	Tbc1d10a	IPI00190657	57	0	1	3	0	4	4	4	0.0	1.0000	1.0000
Glutathione S-transferase alpha-1	Gsta2	IPI00231638	26	0	3	2	3	2	5	5	0.0	1.0000	1.0000
40S ribosomal protein S7	Rps7	IPI00214582	22	0	6	4	4	6	10	10	0.0	1.0000	1.0000
NHE3 regulatory cofactor NHE-RF3	Pdzk1	IPI00200998	57	0	187	444	270	353	631	623	0.0	0.5646	1.0000
Maltase-glucoamylase	Mgam	IPI00193894	198	1	153	217	159	202	370	361	-0.1	0.5496	1.0000
64 Kda Protein, Similar to Maltase-Glucoamylase	Acly	IPI00191437	64	0	58	125	66	104	183	170	-0.1	0.3920	1.0000
V-type proton ATPase subunit F	Atp6v1f	IPI00198291	13	0	1	12	3	9	13	12	-0.1	0.8436	1.0000
Sushi Domain containing protein	Susd2	IPI00191919	91	0	125	136	112	128	261	240	-0.2	0.2421	1.0000
60S ribosomal protein L4	Rpl4	IPI00202512	47	0	16	17	14	16	33	30	-0.2	0.7058	1.0000
Alkaline phosphatase, tissue-nonspecific isozyme	Alpl	IPI00327143	58	0	10	9	12	5	19	17	-0.2	0.7406	1.0000
Transient receptor potential cation channel V member 4	Trpv4	IPI00191593	98	6	2	7	2	6	9	8	-0.2	0.8128	1.0000
Cytochrome P450 4A2	Cyp4a2	IPI00203317	58	1	8	1	1	7	9	8	-0.2	0.8128	1.0000
ATPase, H+ transporting, lysosomal V1 subunit A	Atp6v1a	IPI00373076	68	0	126	96	111	85	222	196	-0.2	0.1399	1.0000
Sodium/glucose cotransporter 2	Slc5a2	IPI00212934	73	14	137	152	143	111	289	254	-0.2	0.0834	0.7431
actin, beta-like 2	Actb2	IPI00360356	42	0	77	91	69	77	168	146	-0.2	0.1566	1.0000
Tubulin alpha-1B chain	Tuba1b	IPI00339167	50	0	38	50	35	41	88	76	-0.2	0.3090	1.0000

Protein	Gene	IPI	MW	TMD	SpC				ΣSpC		Rsc	p	BY <sub>p</sub>
					BBMV <sub>CTX1</sub>	BBMV <sub>CTX2</sub>	BBMV <sub>PCT1</sub>	BBMV <sub>PCT2</sub>	BBMV <sub>CTX</sub>	BBMV <sub>PCT</sub>			
amionless homolog	Amn	IPI00870509	49	1	3	3	2	3	6	5	-0.3	0.7722	1.0000
Radixin	Rdx	IPI00369635	69	0	73	64	54	61	137	115	-0.3	0.1291	1.0000
Ras homolog gene family, member C	Rhoc	IPI00191114	22	0	21	20	18	16	41	34	-0.3	0.4187	1.0000
Pls1 protein	Pls1	IPI00370844	70	0	23	43	25	29	66	54	-0.3	0.2355	1.0000
similar to Na+ dependent glucose transporter 1	RGD1310495	IPI00361210	55	11	13	14	12	10	27	22	-0.3	0.4762	1.0000
Syntaxin-binding protein 2	Stxbp2	IPI00208188	67	0	9	15	6	13	24	19	-0.4	0.4475	1.0000
Cytochrome c, somatic	Cycc	IPI00231864	12	0	14	19	12	14	33	26	-0.4	0.3625	1.0000
10-formyltetrahydrofolate dehydrogenase	Aldh1l1	IPI00196725	99	0	4	0	3	0	4	3	-0.4	0.7239	1.0000
Vil1 protein	Vil1	IPI00362757	93	0	138	221	132	148	359	280	-0.4	0.0007	0.0090
Dipeptidyl peptidase 4	Dpp4	IPI00208422	88	1	313	219	244	165	532	409	-0.4	0.0000	0.0002
Aminopeptidase N	Anpep	IPI00230862	109	1	322	505	331	304	827	635	-0.4	0.0000	0.0000
4 kDa protein, Putative glycine-rich cell wall structural protein		IPI00782004	4	0	0	7	3	2	7	5	-0.5	0.5773	1.0000
Lysosome-associated membrane glycoprotein 1	Lamp1	IPI00206336	44	1	39	41	32	26	80	58	-0.5	0.0497	0.4701
Myosin-9	Myh9	IPI00209113	226	0	24	91	20	63	115	83	-0.5	0.0184	0.1941
Collectrin	Tmem27	IPI00191929	25	1	63	57	41	44	120	85	-0.5	0.0095	0.1064
Low-density lipoprotein receptor-related protein 2	Lrp2	IPI00205325	519	1	368	318	289	198	686	487	-0.5	0.0000	0.0000
Moesin	Msn	IPI00212314	68	0	141	162	81	132	303	213	-0.5	0.0000	0.0004
Ectonucleotide pyrophosphatase/phosphodiesterase member 6	Enpp6	IPI00358524	51	0	19	0	10	3	19	13	-0.6	0.2919	1.0000
Membrane-bound aminopeptidase P	Xpnpep2	IPI00197684	76	0	86	59	66	32	145	98	-0.6	0.0016	0.0198
Homogentisate 1, 2-dioxygenase	Hgd	IPI00556987	50	0	13	9	7	7	22	14	-0.7	0.1839	1.0000
Lysozyme C-1	Lyz2	IPI00211927	17	0	41	45	38	17	86	55	-0.7	0.0068	0.0800
Electroneutral sodium monocarboxylate cotransporter	Slc5a12	IPI00769286	68	13	33	29	18	21	62	39	-0.7	0.0214	0.2215
Tripeptidyl-peptidase 1	Tpp1	IPI00190499	61	0	5	8	3	5	13	8	-0.7	0.2818	1.0000
Sodium-dependent phosphate transport protein 2C	Slc34a3	IPI00203529	64	11	15	23	14	9	38	23	-0.7	0.0540	0.5022
Ras-related protein Rap-1A	Rap1a	IPI00187747	21	0	16	24	14	10	40	24	-0.8	0.0447	0.4299
similar to myosin XVIIIa	LOC360570	IPI00568245	233	0	0	2	0	1	2	1	-0.8	0.6213	1.0000
Sodium/hydrogen exchanger 3	Slc9a3	IPI00193371	93	12	0	2	0	1	2	1	-0.8	0.6213	1.0000
Isoform 1 of Glutamyl aminopeptidase	Enpep	IPI00327398	108	1	144	90	81	54	234	135	-0.8	0.0000	0.0000
ATPase, H+ transporting, lysosomal V1 subunit D	Atp6v1d	IPI00365851	28	0	17	17	7	12	34	19	-0.9	0.0386	0.3781
Cubilin	Cubn	IPI00196620	399	0	8	12	9	2	20	11	-0.9	0.1070	0.9434
Ras-related C3 botulinum toxin substrate 1	Rac1	IPI00422092	21	0	20	18	9	12	38	21	-0.9	0.0261	0.2684
Myosin light polypeptide 6	Myf6l	IPI00365944	17	0	17	14	7	10	31	17	-0.9	0.0426	0.4126
ATP-binding cassette protein C4	Abcc4	IPI00421457	149	9	15	24	10	11	39	21	-0.9	0.0194	0.2033
Calmodulin	Calm3	IPI00231955	17	0	15	26	7	15	41	22	-0.9	0.0160	0.1697
Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-2	Gnb2	IPI00212658	37	0	34	54	27	20	88	47	-0.9	0.0003	0.0041
Dipeptidase 1	Dpep1	IPI00327697	46	0	73	58	45	25	131	70	-0.9	0.0000	0.0002
Folate binding protein	Folr1	IPI00202950	29	0	14	11	9	3	25	12	-1.1	0.0320	0.3193
V-type proton ATPase subunit C 1	Atp6v1c1	IPI00213457	44	0	4	9	4	2	13	6	-1.1	0.1119	0.9816
Lysosome-associated membrane glycoprotein 2	Lamp2	IPI00212730	45	1	16	18	13	3	34	16	-1.1	0.0103	0.1145
Isoform 1 of Cell division control protein 42 homolog	Cdc42	IPI00285606	21	0	13	19	8	7	32	15	-1.1	0.0125	0.1380
prominin 1 isoform 1	Prom1	IPI00325312	97	5	5	0	1	1	5	2	-1.2	0.2843	1.0000
Aquaporin-1	Aqp1	IPI00327202	29	6	24	34	14	12	58	26	-1.2	0.0004	0.0058

Protein	Gene	IPI	MW	TMD	SpC				ΣSpC		Rsc	p	BY <sub>p</sub>
					BBMV <sub>CTX1</sub>	BBMV <sub>CTX2</sub>	BBMV <sub>PCT1</sub>	BBMV <sub>PCT2</sub>	BBMV <sub>CTX</sub>	BBMV <sub>PCT</sub>			
similar to Villin-like protein	Vill	IPI00373579	97	0	7	23	4	9	30	13	-1.2	0.0090	0.1007
napsin A aspartic peptidase	Napsa	IPI00212697	46	0	15	41	1	23	56	24	-1.2	0.0003	0.0042
Retinal dehydrogenase 1	Aldh1a1	IPI00332042	54	0	3	0	1	0	3	1	-1.3	0.3701	1.0000
Lysosomal acid phosphatase	Acp2	IPI00201276	48	2	7	6	5	0	13	5	-1.3	0.0611	0.5625
Myosin-10	Myh10	IPI00211813	233	0	1	15	2	4	16	6	-1.4	0.0330	0.3256
Cystathionine gamma-lyase	Cth	IPI00194550	44	0	3	8	4	0	11	4	-1.4	0.0740	0.6632
Ras-related GTP binding C	Rragc	IPI00188288	44	0	3	3	2	0	6	2	-1.4	0.1754	1.0000
Ras-related protein Rab-8A	Rab8a	IPI00196789	24	0	0	6	2	0	6	2	-1.4	0.1754	1.0000
Epoxide hydrolase 1	Ephx1	IPI00209690	53	0	1	5	0	2	6	2	-1.4	0.1754	1.0000
<b>Kidney-specific Na-K-Cl symporter</b>	<b>Slc12a1</b>	<b>IPI00213335</b>	<b>120</b>	<b>12</b>	<b>62</b>	<b>61</b>	<b>29</b>	<b>18</b>	<b>123</b>	<b>47</b>	<b>-1.4</b>	<b>0.0000</b>	<b>0.0000</b>
Guanine nucleotide-binding protein G(k) subunit alpha	Gnai3	IPI00231726	41	0	5	18	2	6	23	8	-1.5	0.0065	0.0773
Adaptor protein complex AP-2, alpha 2 subunit	Ap2a2	IPI00471901	104	0	7	5	1	3	12	4	-1.5	0.0469	0.4467
<b>Neutral and basic amino acid transport protein rBAT</b>	<b>Slc3a1</b>	<b>IPI00211648</b>	<b>79</b>	<b>1</b>	<b>393</b>	<b>415</b>	<b>104</b>	<b>190</b>	<b>808</b>	<b>294</b>	<b>-1.5</b>	<b>0.0000</b>	<b>0.0000</b>
<b>Gamma-glutamyltranspeptidase 1</b>	<b>Ggt1</b>	<b>IPI00206254</b>	<b>62</b>	<b>1</b>	<b>166</b>	<b>149</b>	<b>41</b>	<b>67</b>	<b>315</b>	<b>108</b>	<b>-1.6</b>	<b>0.0000</b>	<b>0.0000</b>
Elongation factor 2	Eef2	IPI00203214	95	0	1	3	0	1	4	1	-1.6	0.2141	1.0000
<b>ATPase, H<sup>+</sup> transporting, lysosomal V0 subunit A4</b>	<b>Atp6v0a4</b>	<b>IPI00193777</b>	<b>95</b>	<b>6</b>	<b>85</b>	<b>96</b>	<b>33</b>	<b>24</b>	<b>181</b>	<b>57</b>	<b>-1.7</b>	<b>0.0000</b>	<b>0.0000</b>
<b>ATP-binding cassette sub-family G member 2</b>	<b>Abcg2</b>	<b>IPI00327093</b>	<b>73</b>	<b>6</b>	<b>69</b>	<b>76</b>	<b>21</b>	<b>23</b>	<b>145</b>	<b>44</b>	<b>-1.7</b>	<b>0.0000</b>	<b>0.0000</b>
<b>ATPase, H<sup>+</sup> transporting, lysosomal V0 subunit D1</b>	<b>Atp6v0d1</b>	<b>IPI00476086</b>	<b>40</b>	<b>0</b>	<b>49</b>	<b>53</b>	<b>14</b>	<b>16</b>	<b>102</b>	<b>30</b>	<b>-1.8</b>	<b>0.0000</b>	<b>0.0000</b>
Myosin-ld	Myo1d	IPI00207989	116	0	1	4	1	0	5	1	-1.9	0.1213	1.0000
<b>High-affinity sodium-dependent carnitine cotransporter</b>	<b>Slc22a5</b>	<b>IPI00199585</b>	<b>63</b>	<b>11</b>	<b>15</b>	<b>28</b>	<b>4</b>	<b>7</b>	<b>43</b>	<b>11</b>	<b>-2.0</b>	<b>0.0000</b>	<b>0.0002</b>
<b>System B(0) neutral amino acid transporter(B(0)AT1</b>	<b>Slc6a19</b>	<b>IPI00391783</b>	<b>57</b>	<b>10</b>	<b>34</b>	<b>53</b>	<b>19</b>	<b>3</b>	<b>87</b>	<b>22</b>	<b>-2.0</b>	<b>0.0000</b>	<b>0.0000</b>
<b>Clathrin heavy chain 1</b>	<b>Cltc</b>	<b>IPI00193983</b>	<b>192</b>	<b>0</b>	<b>145</b>	<b>59</b>	<b>26</b>	<b>26</b>	<b>204</b>	<b>52</b>	<b>-2.0</b>	<b>0.0000</b>	<b>0.0000</b>
<b>Sodium-dependent phosphate transport protein 2A</b>	<b>Slc34a1</b>	<b>IPI00193397</b>	<b>69</b>	<b>11</b>	<b>26</b>	<b>20</b>	<b>7</b>	<b>4</b>	<b>46</b>	<b>11</b>	<b>-2.0</b>	<b>0.0000</b>	<b>0.0000</b>
Guanine nucleotide-binding protein subunit alpha-11	Gna11	IPI00200437	42	0	10	8	2	2	18	4	-2.1	0.0024	0.0290
<b>Isoform B of AP-1 complex subunit beta-1</b>	<b>Ap1b1</b>	<b>IPI00201713</b>	<b>104</b>	<b>0</b>	<b>26</b>	<b>14</b>	<b>6</b>	<b>3</b>	<b>40</b>	<b>9</b>	<b>-2.1</b>	<b>0.0000</b>	<b>0.0001</b>
<b>similar to Myosin-6</b>	<b>Myo6</b>	<b>IPI00764111</b>	<b>148</b>	<b>0</b>	<b>54</b>	<b>92</b>	<b>6</b>	<b>28</b>	<b>146</b>	<b>34</b>	<b>-2.1</b>	<b>0.0000</b>	<b>0.0000</b>
<b>ADP-ribosylation factor-like protein 8B</b>	<b>Arl8b</b>	<b>IPI00191587</b>	<b>22</b>	<b>0</b>	<b>9</b>	<b>28</b>	<b>8</b>	<b>0</b>	<b>37</b>	<b>8</b>	<b>-2.2</b>	<b>0.0000</b>	<b>0.0002</b>
G(I)/G(S)/G(T) subunit beta-1	Gnb1	IPI00212655	37	0	10	11	2	2	21	4	-2.3	0.0005	0.0066
six transmembrane epithelial antigen of the prostate 2	Steap2	IPI00372913	56	6	6	2	1	0	8	1	-2.5	0.0203	0.2111
<b>G(i), alpha-2 subunit</b>	<b>Gnai2</b>	<b>IPI00231925</b>	<b>41</b>	<b>0</b>	<b>8</b>	<b>17</b>	<b>0</b>	<b>4</b>	<b>25</b>	<b>4</b>	<b>-2.5</b>	<b>0.0001</b>	<b>0.0009</b>
<b>G(s) subunit alpha isoforms XLas</b>	<b>Gnas</b>	<b>IPI00464920</b>	<b>123</b>	<b>0</b>	<b>19</b>	<b>21</b>	<b>4</b>	<b>2</b>	<b>40</b>	<b>6</b>	<b>-2.7</b>	<b>0.0000</b>	<b>0.0000</b>
<b>Glutamine synthetase</b>	<b>Glul</b>	<b>IPI00324020</b>	<b>42</b>	<b>0</b>	<b>40</b>	<b>47</b>	<b>2</b>	<b>11</b>	<b>87</b>	<b>13</b>	<b>-2.7</b>	<b>0.0000</b>	<b>0.0000</b>
Pincher	Ehd4	IPI00200271	61	0	1	2	0	0	3	0	-2.8	0.1213	1.0000
<b>Isoform 2 of AP-2 complex subunit beta-1</b>	<b>Ap2b1</b>	<b>IPI00231502</b>	<b>106</b>	<b>0</b>	<b>24</b>	<b>9</b>	<b>3</b>	<b>1</b>	<b>33</b>	<b>4</b>	<b>-2.9</b>	<b>0.0000</b>	<b>0.0000</b>
Multidrug and toxin extrusion protein 1	Slc47a1	IPI00372592	61	13	16	3	2	0	19	2	-3.0	0.0001	0.0017
<b>myosin IC</b>	<b>Myo1c</b>	<b>IPI00393867</b>	<b>120</b>	<b>0</b>	<b>10</b>	<b>11</b>	<b>1</b>	<b>1</b>	<b>21</b>	<b>2</b>	<b>-3.1</b>	<b>0.0000</b>	<b>0.0005</b>
<b>hemoglobin alpha 2 chain</b>	<b>LOC360504</b>	<b>IPI00205036</b>	<b>15</b>	<b>0</b>	<b>46</b>	<b>53</b>	<b>4</b>	<b>7</b>	<b>99</b>	<b>11</b>	<b>-3.1</b>	<b>0.0000</b>	<b>0.0000</b>
similar to Harmonin isoform 1	Ush1c	IPI00209014	102	0	9	6	0	1	15	1	-3.4	0.0002	0.0037
<b>similar to myosin VIIb</b>	<b>Myo7b</b>	<b>IPI00208315</b>	<b>241</b>	<b>0</b>	<b>28</b>	<b>47</b>	<b>3</b>	<b>3</b>	<b>75</b>	<b>6</b>	<b>-3.6</b>	<b>0.0000</b>	<b>0.0000</b>
Fetub protein	Fetub	IPI00212708	43	0	5	1	0	0	6	0	-3.7	0.0147	0.1600
Sodium-independent sulfate anion transporter	Slc26a11	IPI00372997	39	4	2	4	0	0	6	0	-3.7	0.0147	0.1600
<b>guanine nucleotide binding protein, alpha q polypeptide</b>	<b>Gnaq</b>	<b>IPI00230868</b>	<b>42</b>	<b>0</b>	<b>14</b>	<b>8</b>	<b>1</b>	<b>0</b>	<b>22</b>	<b>1</b>	<b>-3.9</b>	<b>0.0000</b>	<b>0.0001</b>

Protein	Gene	IPI	MW	TMD	SpC				ΣSpC		Rsc	p	BY <sub>p</sub>
					BBMV <sub>CTX1</sub>	BBMV <sub>CTX2</sub>	BBMV <sub>PCT1</sub>	BBMV <sub>PCT2</sub>	BBMV <sub>CTX</sub>	BBMV <sub>PCT</sub>			
Isoform 7 of Solute carrier organic anion transporter 1A3	Slc21a4	IPI00231181	63	7	7	4	0	0	11	0	-4.6	0.0004	0.0061
DnaJ homolog subfamily C member 5	Dnajc5	IPI00210881	22	0	6	5	0	0	11	0	-4.6	0.0004	0.0061
<b>Meprin A subunit alpha</b>	<b>Mep1a</b>	<b>IPI00210872</b>	<b>85</b>	<b>1</b>	<b>62</b>	<b>38</b>	<b>0</b>	<b>3</b>	<b>100</b>	<b>3</b>	<b>-4.9</b>	<b>0.0000</b>	<b>0.0000</b>
<b>Serum albumin</b>	<b>Alb</b>	<b>IPI00191737</b>	<b>69</b>	<b>0</b>	<b>9</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>14</b>	<b>0</b>	<b>-4.9</b>	<b>0.0001</b>	<b>0.0009</b>
<b>Band 3 anion transport protein</b>	<b>Slc4a1</b>	<b>IPI00231379</b>	<b>103</b>	<b>10</b>	<b>4</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>14</b>	<b>0</b>	<b>-4.9</b>	<b>0.0001</b>	<b>0.0009</b>
<b>Neprilysin</b>	<b>Mme</b>	<b>IPI00231789</b>	<b>86</b>	<b>1</b>	<b>128</b>	<b>90</b>	<b>1</b>	<b>6</b>	<b>218</b>	<b>7</b>	<b>-4.9</b>	<b>0.0000</b>	<b>0.0000</b>
<b>Thiazide-sensitive sodium-chloride cotransporter</b>	<b>Slc12a3</b>	<b>IPI00231043</b>	<b>111</b>	<b>11</b>	<b>16</b>	<b>29</b>	<b>1</b>	<b>0</b>	<b>45</b>	<b>1</b>	<b>-5.0</b>	<b>0.0000</b>	<b>0.0000</b>
<b>Multidrug resistance protein 1a</b>	<b>Abcb1a</b>	<b>IPI00470287</b>	<b>140</b>	<b>11</b>	<b>10</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>0</b>	<b>-5.0</b>	<b>0.0000</b>	<b>0.0005</b>
<b>23 kDa protein</b>	<b>Chp</b>	<b>IPI00207794</b>	<b>23</b>	<b>0</b>	<b>7</b>	<b>11</b>	<b>0</b>	<b>0</b>	<b>18</b>	<b>0</b>	<b>-5.2</b>	<b>0.0000</b>	<b>0.0001</b>
<b>Podocalyxin</b>	<b>Podxl</b>	<b>IPI00325860</b>	<b>52</b>	<b>1</b>	<b>4</b>	<b>14</b>	<b>0</b>	<b>0</b>	<b>18</b>	<b>0</b>	<b>-5.2</b>	<b>0.0000</b>	<b>0.0001</b>
<b>ATPase, class VI, type 11A</b>	<b>Atp11a</b>	<b>IPI00869709</b>	<b>136</b>	<b>7</b>	<b>11</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>19</b>	<b>0</b>	<b>-5.3</b>	<b>0.0000</b>	<b>0.0000</b>
<b>V-H+ATPase subunit a1-IV</b>	<b>Atp6v0a1</b>	<b>IPI00202120</b>	<b>97</b>	<b>6</b>	<b>14</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>22</b>	<b>0</b>	<b>-5.5</b>	<b>0.0000</b>	<b>0.0000</b>
<b>Sodium/glucose cotransporter 1</b>	<b>Slc5a1</b>	<b>IPI00212933</b>	<b>73</b>	<b>14</b>	<b>15</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>22</b>	<b>0</b>	<b>-5.5</b>	<b>0.0000</b>	<b>0.0000</b>
<b>Hemoglobin subunit beta-1</b>	<b>Hbb</b>	<b>IPI00230897</b>	<b>16</b>	<b>0</b>	<b>24</b>	<b>46</b>	<b>1</b>	<b>0</b>	<b>70</b>	<b>1</b>	<b>-5.6</b>	<b>0.0000</b>	<b>0.0000</b>
<b>Monoglyceride lipase</b>	<b>Mgll</b>	<b>IPI00197344</b>	<b>33</b>	<b>0</b>	<b>16</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>26</b>	<b>0</b>	<b>-5.8</b>	<b>0.0000</b>	<b>0.0000</b>
<b>Sodium- and chloride-dependent transporter XTRP2</b>	<b>Slc6a18</b>	<b>IPI00207180</b>	<b>70</b>	<b>12</b>	<b>14</b>	<b>13</b>	<b>0</b>	<b>0</b>	<b>27</b>	<b>0</b>	<b>-5.8</b>	<b>0.0000</b>	<b>0.0000</b>
<b>Organic anion transporting polypeptide A</b>	<b>Slco1a1</b>	<b>IPI00214674</b>	<b>74</b>	<b>10</b>	<b>16</b>	<b>11</b>	<b>0</b>	<b>0</b>	<b>27</b>	<b>0</b>	<b>-5.8</b>	<b>0.0000</b>	<b>0.0000</b>
<b>Sodium-independent aspartate/glutamate transporter 1</b>	<b>Slc7a13</b>	<b>IPI00388452</b>	<b>54</b>	<b>9</b>	<b>24</b>	<b>17</b>	<b>0</b>	<b>0</b>	<b>41</b>	<b>0</b>	<b>-6.4</b>	<b>0.0000</b>	<b>0.0000</b>
<b>Na(+)/glucose cotransporter 5</b>	<b>Slc5a10</b>	<b>IPI00369551</b>	<b>65</b>	<b>14</b>	<b>31</b>	<b>18</b>	<b>0</b>	<b>0</b>	<b>49</b>	<b>0</b>	<b>-6.7</b>	<b>0.0000</b>	<b>0.0000</b>
<b>Urate anion exchanger 1</b>	<b>Slc22a12</b>	<b>IPI00554326</b>	<b>60</b>	<b>10</b>	<b>17</b>	<b>32</b>	<b>0</b>	<b>0</b>	<b>49</b>	<b>0</b>	<b>-6.7</b>	<b>0.0000</b>	<b>0.0000</b>
<b>Peptide transporter 2</b>	<b>Slc15a2</b>	<b>IPI00326990</b>	<b>83</b>	<b>11</b>	<b>30</b>	<b>21</b>	<b>0</b>	<b>0</b>	<b>51</b>	<b>0</b>	<b>-6.7</b>	<b>0.0000</b>	<b>0.0000</b>
<b>Meprin A subunit beta</b>	<b>Mep1b</b>	<b>IPI00204808</b>	<b>79</b>	<b>1</b>	<b>89</b>	<b>87</b>	<b>0</b>	<b>1</b>	<b>176</b>	<b>1</b>	<b>-6.9</b>	<b>0.0000</b>	<b>0.0000</b>
<b>Sodium-dependent vitamin C transporter 1</b>	<b>Slc23a1</b>	<b>IPI00203446</b>	<b>65</b>	<b>10</b>	<b>36</b>	<b>27</b>	<b>0</b>	<b>0</b>	<b>63</b>	<b>0</b>	<b>-7.0</b>	<b>0.0000</b>	<b>0.0000</b>