

Protein name	Gene name	Fold-change ratio	Regulation	Mean intensity Alpha Crystallin B Group	Mean intensity PBS Group
[Protein ADP-ribosylarginine] hydrolase	<i>Adprh</i>	1.05	Down	257455000	269192500
1,2-dihydroxy-3-keto-5-methylthiopentene dioxygenase	<i>Adi1</i>	1.07	Down	178780000	191163333.3
1,5-anhydro-D-fructose reductase	<i>Akr1e2</i>	1.09	Up	137495000	125682500
10 kDa heat shock protein, mitochondrial	<i>Hspe1</i>	1.08	Up	3640325000	3373075000
14-3-3 protein beta/alpha;14-3-3 protein beta/alpha, N-terminally processed	<i>Ywhab</i>	1.15	Down	4566050000	5269750000
14-3-3 protein epsilon	<i>Ywhae</i>	1.06	Up	28391750000	26677000000
14-3-3 protein eta	<i>Ywhah</i>	1.29	Up	1480585000	1143457500
14-3-3 protein gamma;14-3-3 protein gamma, N-terminally processed	<i>Ywhag</i>	1.28	Up	9173550000	7143750000
14-3-3 protein theta	<i>Ywhaq</i>	1.17	Down	7575725000	8845300000
14-3-3 protein zeta/delta	<i>Ywhaz</i>	1.02	Up	31803750000	31303000000
15 kDa selenoprotein	<i>Sep--15</i>	1.16	Up	106431333.3	91792333.33
1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase beta-1	<i>Plcb1</i>	1.27	Up	98442000	77787000
1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase delta-1	<i>Plcd1</i>	1.03	Up	499362500	485430000
2,3-cyclic-nucleotide 3-phosphodiesterase	<i>Cnp</i>	1.16	Up	197505000	169940000
2,5-phosphodiesterase 12	<i>Pde12</i>	1.19	Up	205310000	171906666.7
26S protease regulatory subunit 4	<i>Psmc1</i>	1.07	Down	1305142500	1390025000
26S protease regulatory subunit 6A	<i>Psmc3</i>	1.03	Down	948675000	974095000
26S protease regulatory subunit 6B	<i>Psmc4</i>	1.03	Up	1044927500	1016400000
26S protease regulatory subunit 7	<i>Psmc2</i>	1.17	Up	2649625000	2260000000
26S protease regulatory subunit 8	<i>Psmc5</i>	1.15	Down	1339350000	1538450000
26S proteasome non-ATPase regulatory subunit 1	<i>Psmc1</i>	1.02	Up	1608900000	1573750000
26S proteasome non-ATPase regulatory subunit 11	<i>Psmc11</i>	1.04	Up	1764875000	1689700000
26S proteasome non-ATPase regulatory subunit 13	<i>Psmc13</i>	1.04	Up	1525950000	1473150000
26S proteasome non-ATPase regulatory subunit 2	<i>Psmc2</i>	1.05	Down	2750025000	2898425000
26S proteasome non-ATPase regulatory subunit 9	<i>Psmc9</i>	1.01	Up	309247500	306500000
2-oxoglutarate dehydrogenase, mitochondrial	<i>Ogdh</i>	1.06	Up	4804525000	4541475000
2-oxoisovalerate dehydrogenase subunit alpha, mitochondrial	<i>Bckdha</i>	1.15	Down	52596500	60674500
3(2),5-bisphosphate nucleotidase 1	<i>Bpnt1</i>	1.04	Down	2327075000	2419275000
3-hydroxyacyl-CoA dehydrogenase type-2	<i>Hsd17b10</i>	1.11	Down	633920000	700607500
3-hydroxyisobutyrate dehydrogenase, mitochondrial	<i>Hibadh</i>	1.10	Up	3260550000	2952425000
3-hydroxyisobutyryl-CoA hydrolase, mitochondrial	<i>Hibch</i>	1.08	Up	385260000	355667500
3-ketoacyl-CoA thiolase A, peroxisomal;3-ketoacyl-CoA thiolase B, peroxisomal	<i>Acaa1a;Acaa1b</i>	1.10	Up	689237500	625102500
3-ketoacyl-CoA thiolase, mitochondrial	<i>Acaa2</i>	1.08	Up	221207500	205072500
3-mercaptopyruvate sulfurtransferase	<i>Mpst</i>	1.14	Up	667047500	582827500
3-phosphoinositide-dependent protein kinase 1	<i>Pdk1</i>	1.12	Down	39553000	44429000
40S ribosomal protein S10	<i>Rps10</i>	1.08	Up	916310000	849555000
40S ribosomal protein S11	<i>Rps11</i>	1.05	Up	1330950000	1268050000
40S ribosomal protein S12	<i>Rps12</i>	1.06	Up	1467050000	1378925000
40S ribosomal protein S13	<i>Rps13</i>	1.07	Up	2175600000	2037975000
40S ribosomal protein S14	<i>Rps14</i>	1.27	Up	537087500	423647500
40S ribosomal protein S15	<i>Rps15</i>	1.93	Down	54261000	104496000
40S ribosomal protein S15a	<i>Rps15a</i>	1.06	Up	1880650000	1768700000
40S ribosomal protein S16	<i>Rps16</i>	1.22	Up	1647425000	1352550000
40S ribosomal protein S17	<i>Rps17</i>	1.06	Down	993427500	1049500000
40S ribosomal protein S18	<i>Rps18</i>	1.15	Up	1693150000	1472975000

40S ribosomal protein S19	<i>Rps19</i>	1.18	Up	2143725000	1813525000
40S ribosomal protein S20	<i>Rps20</i>	1.48	Up	1026377500	692472500
40S ribosomal protein S21	<i>Rps21</i>	1.26	Up	113720000	90330000
40S ribosomal protein S23	<i>Rps23</i>	1.14	Down	563745000	641480000
40S ribosomal protein S24	<i>Rps24</i>	1.21	Up	600610000	497205000
40S ribosomal protein S25	<i>Rps25</i>	1.12	Up	1911625000	1701475000
40S ribosomal protein S26	<i>Rps26</i>	1.16	Up	722152500	622260000
40S ribosomal protein S27	<i>Rps27</i>	1.45	Up	338790000	232900000
40S ribosomal protein S29	<i>Rps29</i>	1.14	Down	290220000	331617500
40S ribosomal protein S3	<i>Rps3</i>	1.09	Up	3608025000	3305800000
40S ribosomal protein S3a;40S ribosomal protein S3b	<i>Rps3a</i>	1.04	Down	2284700000	2369375000
40S ribosomal protein S4, X isoform	<i>Rps4x</i>	1.11	Down	2918725000	3229850000
40S ribosomal protein S5;40S ribosomal protein S5, N-terminally processed	<i>Rps5</i>	1.02	Up	1149687500	1121727500
40S ribosomal protein S6	<i>Rps6</i>	1.22	Up	634252500	521027500
40S ribosomal protein S7	<i>Rps7</i>	1.07	Up	1881800000	1754150000
40S ribosomal protein S8	<i>Rps8</i>	1.02	Down	2324925000	2361200000
40S ribosomal protein S9	<i>Rps9</i>	1.14	Up	668830000	584300000
40S ribosomal protein SA	<i>Rpsa</i>	1.03	Up	4319850000	4184700000
4-aminobutyrate aminotransferase, mitochondrial;4-aminobutyrate aminotransferase, brain isoform;4-aminobutyrate aminotransferase, liver isoform	<i>Abat</i>	1.03	Up	10636300000	10277150000
4F2 cell-surface antigen heavy chain	<i>Slc3a2</i>	1.09	Up	5547950000	5103125000
4-trimethylaminobutyraldehyde dehydrogenase	<i>Aldh9a1</i>	1.05	Down	2645750000	2770100000
5-nucleotidase	<i>Nt5e</i>	1.22	Up	637675000	524675000
5-nucleotidase domain-containing protein 2	<i>Nt5dc2</i>	1.28	Up	98444000	76857000
5-oxoprolinase	<i>Oplah</i>	1.14	Up	125896666.7	110167500
6.8 kDa mitochondrial proteolipid	<i>Mp68</i>	1.14	Up	418130000	367806666.7
60 kDa heat shock protein, mitochondrial	<i>Hspd1</i>	1.04	Up	13963250000	13412250000
60S acidic ribosomal protein P0	<i>Rplp0</i>	1.09	Up	3038225000	2777275000
60S acidic ribosomal protein P1	<i>Rplp1</i>	1.23	Down	593967500	729493333.3
60S acidic ribosomal protein P2	<i>Rplp2</i>	1.25	Up	173975000	139360000
60S ribosomal protein L10	<i>Rpl10</i>	1.25	Down	912750000	1144975000
60S ribosomal protein L10a	<i>Rpl10a</i>	1.10	Up	2076125000	1888875000
60S ribosomal protein L11	<i>Rpl11</i>	1.14	Down	1360992500	1558150000
60S ribosomal protein L12	<i>Rpl12</i>	1.10	Down	1771925000	1945600000
60S ribosomal protein L13	<i>Rpl13</i>	1.16	Down	1027702500	1188047500
60S ribosomal protein L13a	<i>Rpl13a</i>	1.10	Down	152182500	168000000
60S ribosomal protein L14	<i>Rpl14</i>	1.11	Up	935482500	843952500
60S ribosomal protein L15	<i>Rpl15</i>	1.02	Up	1389175000	1362600000
60S ribosomal protein L17	<i>Rpl17</i>	1.07	Down	525085000	561830000
60S ribosomal protein L18	<i>Rpl18</i>	1.35	Up	114355000	84521000
60S ribosomal protein L18a	<i>Rpl18a</i>	1.08	Down	1198927500	1293650000
60S ribosomal protein L19	<i>Rpl19</i>	1.01	Down	543222500	551110000
60S ribosomal protein L21	<i>Rpl21</i>	1.13	Up	600377500	532590000
60S ribosomal protein L22	<i>Rpl22</i>	1.15	Down	463772500	535625000
60S ribosomal protein L23	<i>Rpl23</i>	1.13	Up	1345450000	1186150000
60S ribosomal protein L23a	<i>Rpl23a</i>	1.10	Down	906235000	995380000
60S ribosomal protein L24	<i>Rpl24</i>	1.11	Up	835130000	750180000
60S ribosomal protein L26	<i>Rpl26</i>	1.02	Down	946687500	961825000
60S ribosomal protein L27	<i>Rpl27</i>	1.10	Up	1519625000	1380675000
60S ribosomal protein L27a	<i>Rpl27a</i>	1.07	Down	656546666.7	701147500
60S ribosomal protein L28	<i>Rpl28</i>	1.02	Down	413895000	420792500
60S ribosomal protein L29	<i>Rpl29</i>	1.03	Down	287025000	296287500
60S ribosomal protein L3	<i>Rpl3</i>	1.02	Up	1451900000	1424825000
60S ribosomal protein L30	<i>Rpl30</i>	1.12	Up	1111527500	991357500
60S ribosomal protein L31	<i>Rpl31</i>	1.04	Up	760957500	729600000
60S ribosomal protein L32	<i>Rpl32</i>	1.55	Down	511965000	792492500

60S ribosomal protein L34	<i>Rpl34</i>	1.01	Up	266687500	264167500
60S ribosomal protein L35	<i>Rpl35</i>	1.41	Up	636755000	452895000
60S ribosomal protein L35a	<i>Rpl35a</i>	1.10	Up	377240000	341496666.7
60S ribosomal protein L36	<i>Rpl36</i>	1.05	Up	341623333.3	324070000
60S ribosomal protein L37a;Putative 60S ribosomal protein L37a	<i>Rpl37a;Rpl37a-ps1</i>	1.10	Up	184147500	166670000
60S ribosomal protein L38	<i>Rpl38</i>	1.04	Down	499545000	517732500
60S ribosomal protein L4	<i>Rpl4</i>	1.12	Up	834195000	746915000
60S ribosomal protein L5	<i>Rpl5</i>	1.08	Up	2899450000	2685300000
60S ribosomal protein L6	<i>Rpl6</i>	1.19	Up	286527500	241617500
60S ribosomal protein L7	<i>Rpl7</i>	1.26	Up	173473333.3	137883333.3
60S ribosomal protein L7a	<i>Rpl7a</i>	1.12	Up	2025175000	1815675000
60S ribosomal protein L8	<i>Rpl8</i>	1.37	Down	1050802500	1440800000
60S ribosomal protein L9	<i>Rpl9</i>	1.08	Up	1534050000	1419225000
6-phosphogluconate dehydrogenase, decarboxylating	<i>Pgd</i>	1.02	Up	2681025000	2621600000
6-phosphogluconolactonase	<i>Pgls</i>	1.07	Up	883607500	822217500
78 kDa glucose-regulated protein	<i>Hspa5</i>	1.06	Up	9451150000	8902225000
7-methylguanosine phosphate-specific 5-nucleotidase	<i>Nt5c3b</i>	1.43	Down	32874000	47013000
Abhydrolase domain-containing protein 16A	<i>Abhd16a</i>	1.06	Up	300337500	283630000
Abl interactor 1	<i>Abi1</i>	1.01	Up	509955000	503755000
Acetylcholinesterase	<i>Ache</i>	1.05	Down	147713333.3	154377500
Acetyl-CoA acetyltransferase, cytosolic	<i>Acat2</i>	1.02	Up	848120000	827932500
Acetyl-CoA acetyltransferase, mitochondrial	<i>Acat1</i>	1.09	Down	2068875000	2254475000
Acetyl-CoA carboxylase 1;Biotin carboxylase	<i>Acaca</i>	1.72	Up	254480000	147957500
Acid ceramidase	<i>Asah1</i>	1.47	Up	368830000	251067500
Acidic leucine-rich nuclear phosphoprotein 32 family member A	<i>Anp32a</i>	1.02	Down	10632275000	10841725000
Acidic leucine-rich nuclear phosphoprotein 32 family member B	<i>Anp32b</i>	1.02	Down	2343125000	2381275000
Acidic leucine-rich nuclear phosphoprotein 32 family member E	<i>Anp32e</i>	1.07	Up	5487725000	5135225000
Aconitate hydratase, mitochondrial	<i>Aco2</i>	1.05	Up	20599750000	19698000000
Actin, alpha cardiac muscle 1;Actin, alpha skeletal muscle	<i>Actc1;Acta1</i>	1.37	Down	12702000000	17356250000
Actin, aortic smooth muscle;Actin, gamma-enteric smooth muscle	<i>Acta2;Actg2</i>	1.35	Down	472876666.7	637197500
Actin, cytoplasmic 2;Actin, cytoplasmic 2, N-terminally processed	<i>Actg1</i>	1.01	Up	1.02274E+11	1.01394E+11
Actin-binding LIM protein 2	<i>Ablim2</i>	1.08	Up	144640000	134360000
Actin-related protein 2	<i>Actr2</i>	1.04	Down	1398825000	1453100000
Actin-related protein 2/3 complex subunit 1A	<i>Arpc1a</i>	1.09	Up	1410200000	1298225000
Actin-related protein 2/3 complex subunit 2	<i>Arpc2</i>	1.06	Down	1426550000	1510550000
Actin-related protein 2/3 complex subunit 5	<i>Arpc5</i>	1.32	Up	250406666.7	189970000
Actin-related protein 2/3 complex subunit 5-like protein	<i>Arpc5l</i>	1.01	Up	187670000	184930000
Actin-related protein 3	<i>Actr3</i>	1.04	Up	2093600000	2017725000
Activated RNA polymerase II transcriptional coactivator p15	<i>Sub1</i>	2.24	Up	1161980000	518802500
Activity-dependent neuroprotector homeobox protein	<i>Adnp</i>	1.82	Down	62292500	113136000
Acylamino-acid-releasing enzyme	<i>Apeh</i>	1.32	Up	218070000	165086666.7
Acyl-CoA-binding protein;Triakontatetrapeptide;Octadecaneuropeptide	<i>Dbi</i>	1.10	Down	2180975000	2390150000

Acyl-coenzyme A thioesterase 2, mitochondrial;Acyl-coenzyme A thioesterase 1	<i>Acot2;Acot1</i>	1.12	Down	126033333.3	140630000
Acyl-coenzyme A thioesterase 8	<i>Acot8</i>	1.13	Up	63475500	56354000
Acyl-coenzyme A thioesterase THEM4	<i>Them4</i>	1.10	Up	159545000	145390000
Acyl-protein thioesterase 1	<i>Lypla1</i>	1.02	Down	401245000	410466666.7
Acyl-protein thioesterase 2	<i>Lypla2</i>	1.01	Up	1242650000	1236275000
Acylpyruvase FAHD1, mitochondrial	<i>Fahd1</i>	1.07	Down	183760000	196827500
Adapter molecule crk	<i>Crk</i>	1.08	Up	706272500	654675000
Adaptin ear-binding coat-associated protein 1	<i>Necap1</i>	1.01	Down	319975000	324070000
Adenine phosphoribosyltransferase	<i>Aprt</i>	1.01	Up	661190000	655415000
Adenosine kinase	<i>Adk</i>	1.08	Down	701867500	756380000
Adenosylhomocysteinase	<i>Ahcy</i>	1.15	Down	13610500000	15655000000
Adenosylhomocysteinase	<i>Ahcyl1</i>	1.19	Down	2421700000	2887000000
Adenylate kinase 4, mitochondrial	<i>Ak4</i>	1.05	Down	181402500	190592500
Adenylate kinase isoenzyme 1	<i>Ak1</i>	1.05	Down	4301300000	4536850000
Adenylyl cyclase-associated protein 1	<i>Cap1</i>	1.21	Down	2795375000	3380875000
Adenylyl cyclase-associated protein 2	<i>Cap2</i>	1.25	Down	143705000	180296666.7
Adipocyte plasma membrane-associated protein	<i>Apmap</i>	1.16	Down	415505000	479962500
ADP/ATP translocase 1	<i>Slc25a4</i>	1.05	Up	37247750000	35407250000
ADP/ATP translocase 2;ADP/ATP translocase 2, N-terminally processed	<i>Slc25a5</i>	1.22	Up	10214525000	8366075000
ADP-ribose pyrophosphatase, mitochondrial	<i>Nudt9</i>	1.01	Down	310900000	314560000
ADP-ribosylation factor 1;ADP-ribosylation factor 3	<i>Arf1;Arf3</i>	1.17	Up	4661300000	3999650000
ADP-ribosylation factor 4	<i>Arf4</i>	1.11	Up	405750000	364362500
ADP-ribosylation factor 5	<i>Arf5</i>	1.09	Up	4263550000	3910525000
ADP-ribosylation factor 6	<i>Arf6</i>	1.13	Up	465700000	413247500
ADP-ribosylation factor GTPase-activating protein 1	<i>Arfgap1</i>	1.01	Up	120410000	118670000
ADP-ribosylation factor GTPase-activating protein 2	<i>Arfgap2</i>	1.28	Up	94163000	73747000
ADP-ribosylation factor-like protein 1	<i>Arl1</i>	1.04	Up	255546666.7	244767500
ADP-ribosylation factor-like protein 3	<i>Arl3</i>	1.05	Down	1806000000	1892225000
ADP-ribosylation factor-like protein 8B	<i>Arl8b</i>	1.02	Down	863895000	881722500
ADP-sugar pyrophosphatase	<i>Nudt5</i>	2.13	Up	130560000	61229000
Afadin	<i>Millt4</i>	1.09	Up	208563333.3	191273333.3
Aflatoxin B1 aldehyde reductase member 2	<i>Akr7a2</i>	1.10	Down	2254675000	2486050000
Agrin;Agrin N-terminal 110 kDa subunit;Agrin C-terminal 110 kDa subunit;Agrin C-terminal 90 kDa fragment;Agrin C-terminal 22 kDa fragment	<i>Agrn</i>	1.28	Up	82287000	64526000
AH receptor-interacting protein	<i>Aip</i>	1.00	Up	374242500	373342500
A-kinase anchor protein 12	<i>Akap12</i>	1.10	Up	242190000	221150000
A-kinase anchor protein SPHKAP	<i>Sphkap</i>	1.10	Up	130840000	119040000
Alanine--tRNA ligase, cytoplasmic	<i>Aars</i>	1.02	Up	3537650000	3451400000
Alanyl-tRNA editing protein Aarsd1	<i>Aarsd1</i>	1.02	Down	391677500	401222500
Alcohol dehydrogenase [NADP(+)]	<i>Akr1a1</i>	1.09	Down	4444050000	4822525000
Alcohol dehydrogenase class-3	<i>Adh5</i>	1.01	Down	3352925000	3380875000
Aldehyde dehydrogenase X, mitochondrial	<i>Aldh1b1</i>	1.20	Up	113945000	94674333.33
Aldehyde dehydrogenase, mitochondrial	<i>Aldh2</i>	1.09	Up	665385000	613030000
Aldose reductase	<i>Akr1b1</i>	1.02	Up	9723375000	9498500000
Aldose reductase-related protein 1	<i>Akr1b7</i>	1.14	Down	699993333.3	800652500
Alpha/beta hydrolase domain-containing protein 14B	<i>Abhd14b</i>	1.07	Up	1364250000	1276375000
Alpha-1-antiproteinase	<i>Serpina1</i>	1.04	Down	302680000	314587500
Alpha-1B-glycoprotein	<i>A1bg</i>	1.68	Up	142690000	84804000
Alpha-1-inhibitor 3	<i>A1i3</i>	1.16	Down	1021540000	1186125000

Alpha-1-macroglobulin;Alpha-1-macroglobulin 45 kDa subunit	<i>A1m</i>	1.05	Down	800012500	841485000
Alpha-2-HS-glycoprotein	<i>Ahsg</i>	1.19	Up	175655000	147322500
Alpha-2-macroglobulin	<i>A2m</i>	1.50	Down	535727500	803017500
Alpha-2-macroglobulin receptor-associated protein	<i>Lrpap1</i>	1.05	Up	154600000	146760000
Alpha-actinin-1	<i>Actn1</i>	1.12	Down	229507500	257615000
Alpha-actinin-4	<i>Actn4</i>	1.04	Down	7128725000	7439875000
Alpha-adducin	<i>Add1</i>	1.13	Down	4178075000	4729775000
Alpha-aminoadipic semialdehyde dehydrogenase	<i>Aldh7a1</i>	1.00	Up	1916500000	1910850000
Alpha-centractin	<i>Actr1a</i>	1.10	Up	3383100000	3080450000
Alpha-crystallin A chain;Alpha-crystallin A(1-168);Alpha-crystallin A(1-165);Alpha-crystallin A(1-163);Alpha-crystallin A(1-162);Alpha-crystallin A(1-157);Alpha-crystallin A(1-156);Alpha-crystallin A(1-151)	<i>Cryaa</i>	1.22	Up	840432500	690380000
Alpha-crystallin B chain	<i>Cryab</i>	1.22	Up	541445000	445427500
Alpha-crystallin B chain	<i>Cryab</i>	1.12	Up	630605000	564887500
Alpha-enolase	<i>Eno1</i>	1.04	Up	1.69143E+11	1.623E+11
Alpha-internexin	<i>Ina</i>	2.32	Down	636297500	1474150000
Alpha-mannosidase 2C1	<i>Man2c1</i>	1.11	Up	181055000	162952500
Alpha-methylacyl-CoA racemase	<i>Amacr</i>	1.10	Up	50960333.33	46536250
Alpha-N-acetylgalactosaminidase	<i>Naga</i>	1.01	Down	145817500	147486666.7
Alpha-soluble NSF attachment protein	<i>Napa</i>	1.07	Up	1635600000	1533625000
Amine oxidase [flavin-containing] A	<i>Maoa</i>	1.07	Up	1697075000	1580975000
Amine oxidase [flavin-containing] B	<i>Maob</i>	1.34	Down	298875000	400160000
Aminoacyl tRNA synthase complex-interacting multifunctional protein 2	<i>Aimp2</i>	1.12	Down	192152000	214738500
Aminoacylase-1A	<i>Acy1a</i>	1.06	Up	957452500	903190000
Aminopeptidase B	<i>Rnpep</i>	1.16	Up	3195900000	2766150000
AMP deaminase 2	<i>Ampd2</i>	1.18	Down	666775000	790005000
AMP deaminase 3	<i>Ampd3</i>	1.22	Down	66268000	80873000
Amphiphysin	<i>Amph</i>	1.04	Up	4026575000	3876650000
Amyloid-like protein 2	<i>Aplp2</i>	1.12	Down	81971000	91614000
Anamorsin	<i>Ciapi1</i>	1.04	Down	405500000	422887500
Anion exchange protein 2	<i>Slc4a2</i>	1.57	Up	75682500	48292000
Ankyrin-3	<i>Ank3</i>	1.01	Down	884227500	894467500
Annexin A1	<i>Anxa1</i>	1.07	Down	261662500	279700000
Annexin A2	<i>Anxa2</i>	1.01	Up	897677500	887665000
Annexin A3	<i>Anxa3</i>	1.03	Up	804742500	778235000
Annexin A5	<i>Anxa5</i>	1.18	Up	2443300000	2076975000
Annexin A6	<i>Anxa6</i>	1.29	Up	1461050000	1133925000
AP-1 complex subunit beta-1	<i>Ap1b1</i>	1.09	Up	3131300000	2875100000
AP-1 complex subunit mu-1	<i>Ap1m1</i>	1.11	Up	441590000	399427500
AP-2 complex subunit alpha-2	<i>Ap2a2</i>	1.06	Up	13933750000	13094750000
AP-2 complex subunit beta	<i>Ap2b1</i>	1.07	Up	11111075000	10372900000
AP-2 complex subunit mu	<i>Ap2m1</i>	1.04	Up	5599075000	5363400000
AP-2 complex subunit sigma	<i>Ap2s1</i>	1.05	Down	882905000	930420000
AP2-associated protein kinase 1	<i>Aak1</i>	1.00	Up	1647175000	1641075000
AP-3 complex subunit mu-2	<i>Ap3m2</i>	1.03	Up	784062500	763630000
Apolipoprotein A-I;Proapolipoprotein A-I	<i>Apoa1</i>	1.15	Down	82080000	94529250
Apolipoprotein E	<i>ApoE</i>	1.01	Down	468312500	474235000
Apoptosis-inducing factor 1, mitochondrial	<i>Aifm1</i>	1.02	Up	581260000	571277500
Aquaporin-4	<i>Aqp4</i>	1.32	Up	894137500	677605000
ARF GTPase-activating protein GIT1	<i>Git1</i>	1.07	Up	98407000	92045666.67
Arfaptin-2	<i>Arfip2</i>	1.07	Down	134500000	143614666.7
Arf-GAP domain and FG repeat-containing protein 1	<i>Agfg1</i>	1.06	Down	192722500	203992500
Arf-GAP with SH3 domain, ANK repeat and PH domain-containing protein 1	<i>Asap1</i>	1.00	Up	125420000	125010000

Arginine and glutamate-rich protein 1	<i>Arglu1</i>	1.25	Down	38298000	47883000
Arginine--tRNA ligase, cytoplasmic	<i>Rars</i>	1.09	Down	638097500	697227500
Argininosuccinate lyase	<i>Asl</i>	1.21	Up	162370000	134703333.3
Argininosuccinate synthase	<i>Ass1</i>	1.15	Up	1958175000	1696350000
Armadillo repeat-containing protein 10	<i>Armc10</i>	1.13	Up	205442500	181335000
Aryl-hydrocarbon-interacting protein-like 1	<i>Aipl1</i>	1.04	Up	788407500	754965000
Asparagine synthetase [glutamine-hydrolyzing]	<i>Asns</i>	1.28	Down	284210000	363932500
Aspartate aminotransferase, cytoplasmic	<i>Got1</i>	1.00	Down	45113500000	45245250000
Aspartate aminotransferase, mitochondrial	<i>Got2</i>	1.02	Up	35240500000	34581000000
Aspartate--tRNA ligase, cytoplasmic	<i>Dars</i>	1.01	Up	1910350000	1889125000
Astrocytic phosphoprotein PEA-15	<i>Pea15</i>	1.23	Down	297352500	367025000
Ataxin-10	<i>Atxn10</i>	1.10	Up	422640000	384730000
Atlastin-1	<i>Atl1</i>	1.11	Down	232990000	258257500
ATP synthase F(0) complex subunit B1, mitochondrial	<i>Atp5f1</i>	1.10	Up	8043825000	7305850000
ATP synthase protein 8	<i>Mt-atp8</i>	1.72	Up	210400000	122442500
ATP synthase subunit a	<i>Mt-atp6</i>	1.01	Down	78347000	78871666.67
ATP synthase subunit alpha, mitochondrial	<i>Atp5a1</i>	1.07	Up	66813500000	62618750000
ATP synthase subunit beta, mitochondrial	<i>Atp5b</i>	1.12	Up	96061750000	85841250000
ATP synthase subunit d, mitochondrial	<i>Atp5h</i>	1.01	Down	7077925000	7153500000
ATP synthase subunit e, mitochondrial	<i>Atp5i</i>	1.03	Down	1895875000	1949300000
ATP synthase subunit epsilon, mitochondrial	<i>Atp5e</i>	1.32	Up	1247230000	942810000
ATP synthase subunit f, mitochondrial	<i>Atp5j2</i>	1.06	Up	2201750000	2078800000
ATP synthase subunit g, mitochondrial	<i>Atp5l</i>	1.00	Down	3577375000	3591225000
ATP synthase subunit gamma, mitochondrial	<i>Atp5c1</i>	1.13	Up	8465225000	7470725000
ATP synthase subunit O, mitochondrial	<i>Atp5o</i>	1.10	Up	14240750000	12994500000
ATPase family AAA domain-containing protein 1	<i>Atad1</i>	1.02	Up	777360000	759432500
ATPase family AAA domain-containing protein 3	<i>Atad3</i>	1.19	Up	142077500	119810000
ATPase inhibitor, mitochondrial	<i>Atpif1</i>	1.03	Down	240128000	247592500
ATP-binding cassette sub-family A member 2	<i>Abca2</i>	1.78	Down	888925000	1581000000
ATP-binding cassette sub-family B member 7, mitochondrial	<i>Abcb7</i>	1.39	Up	80542333.33	57938000
ATP-binding cassette sub-family D member 3	<i>Abcd3</i>	1.09	Down	114430000	124610000
ATP-citrate synthase	<i>Aclt</i>	1.02	Down	9529375000	9746000000
ATP-dependent (S)-NAD(P)H-hydrate dehydratase	<i>Carkd</i>	1.05	Up	241316666.7	229980000
ATP-dependent 6-phosphofructokinase, liver type	<i>Pfkl</i>	1.04	Up	16649500000	16062500000
ATP-dependent 6-phosphofructokinase, muscle type	<i>Pfkm</i>	1.07	Down	4322750000	4612725000
ATP-dependent 6-phosphofructokinase, platelet type	<i>Pfkp</i>	1.01	Down	3159375000	3205825000
ATP-dependent DNA helicase Q1	<i>Recql</i>	1.36	Down	34025000	46233500
ATP-dependent RNA helicase DDX1	<i>Ddx1</i>	1.00	Up	4859825000	4848525000
ATP-dependent RNA helicase SUPV3L1, mitochondrial	<i>Supv3l1</i>	1.25	Up	124909000	99926500
ATP-sensitive inward rectifier potassium channel 10	<i>Kcnj10</i>	1.11	Up	505680000	457280000
BAG family molecular chaperone regulator 5	<i>Bag5</i>	1.00	Down	145776666.7	146023333.3
Band 4.1-like protein 1	<i>Epb41l1</i>	1.02	Down	1812350000	1847475000
Band 4.1-like protein 5	<i>Epb41l5</i>	1.25	Up	64173000	51371000
Bardet-Biedl syndrome 2 protein homolog	<i>Bbs2</i>	1.13	Up	123912666.7	109362333.3
Basic leucine zipper and W2 domain-containing protein 1	<i>Bzwl</i>	1.02	Up	127570000	124643333.3

Basic leucine zipper and W2 domain-containing protein 2	<i>Bztw2</i>	1.02	Down	419097500	428787500
Basigin	<i>Bsg</i>	1.06	Down	3970000000	4193225000
Beta-adducin	<i>Add2</i>	1.03	Down	436765000	451895000
Beta-arrestin-1	<i>Arrb1</i>	2.07	Up	595772500	288182500
Beta-catenin-like protein 1	<i>Ctnnbl1</i>	1.05	Down	204677500	214127500
Beta-crystallin A3;Beta-crystallin A3, isoform A1, Delta4 form;Beta-crystallin A3, isoform A1, Delta7 form;Beta-crystallin A3, isoform A1, Delta8 form	<i>Cryba1</i>	1.58	Up	271492500	171631500
Beta-crystallin A4	<i>Cryba4</i>	3.39	Up	85191750	25144500
Beta-crystallin B2	<i>Crybb2</i>	1.89	Up	1062927500	561807500
Beta-crystallin S	<i>Crygs</i>	1.68	Up	107755000	64106750
Beta-lactamase-like protein 2	<i>Lactb2</i>	1.14	Up	101045750	88720500
Beta-soluble NSF attachment protein	<i>Napb</i>	1.01	Up	3149450000	3121925000
Beta-synuclein	<i>Sncb</i>	1.16	Down	5375875000	6251275000
Bifunctional ATP-dependent dihydroxyacetone kinase/FAD-AMP lyase (cyclizing);ATP-dependent dihydroxyacetone kinase/FAD-AMP lyase (cyclizing)	<i>Dak</i>	1.06	Up	116835000	110307250
Bifunctional purine biosynthesis protein PURH;Phosphoribosylaminoimidazolecarboxamide formyltransferase;IMP cyclohydrolase	<i>Atic</i>	1.05	Up	2317675000	2205125000
Biliverdin reductase A	<i>Blvra</i>	1.05	Up	566887500	540447500
Bis(5-adenosyl)-triphosphatase	<i>Fhit</i>	1.14	Down	43029000	48936000
Bis(5-nucleosyl)-tetrphosphatase [asymmetrical]	<i>Nudt2</i>	1.06	Up	535497500	503367500
Bleomycin hydrolase	<i>Blmh</i>	1.23	Down	895977500	1105300000
Brain acid soluble protein 1	<i>Basp1</i>	1.42	Up	542803333.3	382897500
Branched-chain-amino-acid aminotransferase, cytosolic	<i>Bcat1</i>	1.02	Up	4813250000	4704575000
Brefeldin A-inhibited guanine nucleotide-exchange protein 1	<i>Arfgef1</i>	1.15	Up	97820000	85315250
Brefeldin A-inhibited guanine nucleotide-exchange protein 2	<i>Arfgef2</i>	1.22	Up	151195000	124415000
C-1-tetrahydrofolate synthase, cytoplasmic;Methylenetetrahydrofolate dehydrogenase;Methenyltetrahydrofolate cyclohydrolase;Formyltetrahydrofolate synthetase;C-1-tetrahydrofolate synthase, cytoplasmic, N-terminally processed	<i>Mthfd1</i>	1.09	Down	510312500	556932500
Cadherin-2	<i>Cdh2</i>	1.03	Up	605437500	589670000
Calbindin	<i>Calb1</i>	1.02	Up	1007465000	983677500
Calcium/calmodulin-dependent 3,5-cyclic nucleotide phosphodiesterase 1B	<i>Pde1b</i>	1.19	Up	265570000	222352500
Calcium/calmodulin-dependent protein kinase type 1	<i>Camk1</i>	1.01	Down	182242500	184892500
Calcium/calmodulin-dependent protein kinase type II subunit alpha	<i>Camk2a</i>	1.12	Up	430585000	386097500
Calcium/calmodulin-dependent protein kinase type II subunit beta	<i>Camk2b</i>	1.01	Up	2813475000	2798000000
Calcium/calmodulin-dependent protein kinase type II subunit delta	<i>Camk2d</i>	1.00	Down	8519400000	8553750000
Calcium/calmodulin-dependent protein kinase type II subunit gamma	<i>Camk2g</i>	1.17	Up	337736666.7	288540000
Calcium/calmodulin-dependent protein kinase type IV	<i>Camk4</i>	1.44	Down	30930000	44561750
Calcium-binding mitochondrial carrier protein SCaMC-2	<i>Slc25a25</i>	1.56	Up	108535333.3	69402000
Calcium-binding protein 1	<i>Cabp1</i>	1.37	Down	4665200	6370033.333
Calcium-dependent secretion activator 1	<i>Cadps</i>	1.03	Up	7112875000	6897350000
Calcyclin-binding protein	<i>Cacybp</i>	1.03	Down	1482100000	1521750000

Calmodulin	<i>Calm1</i>	1.01	Down	3273650000	3316400000
Calnexin	<i>Canx</i>	1.11	Up	7445525000	6682475000
Calpain small subunit 1	<i>Capns1</i>	1.03	Down	286240000	295207500
Calpain-2 catalytic subunit	<i>Capn2</i>	1.07	Up	602855000	562822500
Calponin-3	<i>Cnn3</i>	1.04	Down	601487500	623987500
Calreticulin	<i>Calr</i>	1.08	Up	4982675000	4622875000
Calretinin	<i>Calb2</i>	1.06	Down	18712750000	19831000000
Calsyntenin-1;Soluble Alc-alpha;CTF1-alpha	<i>Clstn1</i>	1.25	Up	68524000	54684500
CaM kinase-like vesicle-associated protein	<i>Camkv</i>	1.05	Up	2099625000	1995500000
cAMP-dependent protein kinase catalytic subunit alpha	<i>Prkaca</i>	1.04	Up	728912500	701215000
cAMP-dependent protein kinase catalytic subunit beta	<i>Prkacb</i>	1.03	Down	2213500000	2270525000
cAMP-dependent protein kinase type I-alpha regulatory subunit;cAMP-dependent protein kinase type I-alpha regulatory subunit, N-terminally processed	<i>Prkar1a</i>	1.03	Up	1200962500	1167400000
cAMP-dependent protein kinase type I-beta regulatory subunit	<i>Prkar1b</i>	1.37	Down	62355000	85529000
cAMP-dependent protein kinase type II-alpha regulatory subunit	<i>Prkar2a</i>	1.11	Up	4322750000	3902850000
cAMP-dependent protein kinase type II-beta regulatory subunit	<i>Prkar2b</i>	1.05	Up	934920000	888635000
CAP-Gly domain-containing linker protein 2	<i>Clip2</i>	1.05	Up	236885000	226520000
Caprin-1	<i>Caprin1</i>	1.01	Up	370625000	367505000
Cap-specific mRNA (nucleoside-2-O-)-methyltransferase 1	<i>Cmtr1</i>	1.05	Up	150460000	142640000
Carbonic anhydrase 1	<i>Ca1</i>	1.10	Down	150765000	166310000
Carbonic anhydrase 2	<i>Ca2</i>	1.00	Up	52683750000	52562000000
Carbonic anhydrase-related protein	<i>Ca8</i>	1.06	Up	93837000	88660000
Carbonyl reductase [NADPH] 1	<i>Cbr1</i>	1.08	Up	6000800000	5560425000
Carboxymethylenebutenolidase homolog	<i>Cmb1</i>	1.12	Up	109515000	97795000
Carboxypeptidase E	<i>Cpe</i>	1.10	Up	271400000	247690000
Carnitine O-acetyltransferase	<i>Crat</i>	1.04	Up	145940000	140482500
Carnitine O-palmitoyltransferase 1, liver isoform	<i>Cpt1a</i>	1.13	Up	192722500	170445000
Carnitine O-palmitoyltransferase 2, mitochondrial	<i>Cpt2</i>	1.11	Up	1232327500	1107037500
Casein kinase I isoform alpha	<i>Csnk1a1</i>	1.17	Down	127685000	148825000
Casein kinase I isoform delta	<i>Csnk1d</i>	2.17	Down	10006000	21690000
Casein kinase I isoform gamma-2;Casein kinase I isoform gamma-3;Casein kinase I isoform gamma-1	<i>Csnk1g2;Csnk1g3;Csnk1g1</i>	1.40	Up	116216666.7	83216333.33
Casein kinase II subunit alpha	<i>Csnk2a1</i>	1.01	Down	2880700000	2899725000
Casein kinase II subunit beta	<i>Csnk2b</i>	1.34	Down	902935000	1213875000
Caskin-1	<i>Caskin1</i>	1.03	Up	790285000	770755000
Catalase	<i>Cat</i>	1.32	Down	206920000	272392500
Catechol O-methyltransferase	<i>Comt</i>	1.06	Up	379535000	359157500
Catenin beta-1	<i>Ctnnb1</i>	1.01	Up	2928150000	2894900000
Cathepsin B;Cathepsin B light chain;Cathepsin B heavy chain	<i>Ctsb</i>	1.10	Down	694257500	765582500
Cathepsin D;Cathepsin D 12 kDa light chain;Cathepsin D 9 kDa light chain;Cathepsin D 34 kDa heavy chain;Cathepsin D 30 kDa heavy chain	<i>Ctsd</i>	1.02	Up	3606550000	3540900000
Caveolin-1	<i>Cav1</i>	1.03	Up	979492500	952035000
CB1 cannabinoid receptor-interacting protein 1	<i>Cnrip1</i>	1.02	Down	1809275000	1851825000
CD166 antigen	<i>Alcam</i>	1.18	Up	287600000	243542500
CD44 antigen	<i>Cd44</i>	1.14	Up	1259900000	1103585000
CD59 glycoprotein	<i>Cd59</i>	1.17	Down	479047500	560947500

CD81 antigen	<i>Cd81</i>	1.08	Down	529450000	573296666.7
CD9 antigen	<i>Cd9</i>	1.22	Up	891910000	729085000
CDGSH iron-sulfur domain-containing protein 1	<i>Cisd1</i>	1.02	Up	2465825000	2407000000
CDK5 regulatory subunit-associated protein 3	<i>Cdk5rap3</i>	1.19	Down	92408500	109740000
CDP-diacylglycerol--inositol 3-phosphatidyltransferase	<i>Cdipt</i>	1.07	Up	567880000	531367500
Cell adhesion molecule 2	<i>Cadm2</i>	1.05	Up	1804225000	1721200000
Cell adhesion molecule 3	<i>Cadm3</i>	1.10	Up	980950000	890287500
Cell adhesion molecule 4	<i>Cadm4</i>	1.10	Up	123832250	112748500
Cell cycle exit and neuronal differentiation protein 1	<i>Cend1</i>	1.17	Down	140577333.3	164780000
Cell division control protein 42 homolog	<i>Cdc42</i>	1.04	Up	2110225000	2021000000
Cell division cycle 5-like protein	<i>Cdc5l</i>	1.03	Up	226080000	219477500
Cell surface glycoprotein MUC18	<i>Mcam</i>	1.14	Up	117760000	103295000
Cellular nucleic acid-binding protein	<i>Cnbp</i>	1.54	Down	203021250	312617500
Cellular retinoic acid-binding protein 1	<i>Crabp1</i>	1.06	Down	1966075000	2090525000
Ceruloplasmin	<i>Cp</i>	1.15	Up	3074125000	2683400000
cGMP-gated cation channel alpha-1	<i>Cnga1</i>	1.15	Up	652675000	566775000
cGMP-inhibited 3,5-cyclic phosphodiesterase A	<i>Pde3a</i>	1.06	Down	92535250	97839500
Chitinase domain-containing protein 1	<i>Chid1</i>	1.09	Down	167870000	182767500
Chloride intracellular channel protein 1	<i>Clc1</i>	1.06	Down	562390000	593572500
Chloride intracellular channel protein 4	<i>Clc4</i>	1.39	Down	95956000	133440000
Chloride intracellular channel protein 6	<i>Clc6</i>	1.05	Down	93259000	97939000
Choline dehydrogenase, mitochondrial	<i>Chdh</i>	1.21	Down	129197500	155720000
Choline O-acetyltransferase	<i>Chat</i>	1.22	Down	104663666.7	127852500
Choline transporter-like protein 2	<i>Slc44a2</i>	1.06	Down	289837500	308567500
Choline/ethanolamine kinase	<i>Chkb</i>	1.02	Up	180790000	176460000
Chromodomain-helicase-DNA-binding protein 5	<i>Chd5</i>	1.12	Up	297210000	266305000
Cilia- and flagella-associated protein 36	<i>Cfap36</i>	1.33	Up	98955000	74481000
Ciliary neurotrophic factor	<i>Cntf</i>	1.00	Up	155580000	155373333.3
Ciliary neurotrophic factor receptor subunit alpha	<i>Cntfr</i>	1.27	Up	245292500	193467500
Citrate synthase, mitochondrial	<i>Cs</i>	1.08	Down	16584250000	17968500000
Clathrin coat assembly protein AP180	<i>Snap91</i>	1.00	Up	6890550000	6882075000
Clathrin heavy chain 1	<i>Cltc</i>	1.07	Up	80309000000	75261500000
Clathrin light chain A	<i>Clta</i>	1.77	Up	846083333.3	478195000
Clathrin light chain B	<i>Cltb</i>	1.11	Up	601797500	544375000
Cleavage and polyadenylation specificity factor subunit 5	<i>Nudt21</i>	1.19	Up	906427500	764075000
Cleavage and polyadenylation specificity factor subunit 7	<i>Cpsf7</i>	1.17	Up	115658000	99227750
Cleavage stimulation factor subunit 1	<i>Cstf1</i>	1.40	Down	49357000	68873000
CLIP-associating protein 2	<i>Clasp2</i>	1.06	Down	863222500	912397500
Clusterin;Clusterin beta chain;Clusterin alpha chain	<i>Clu</i>	1.91	Up	189795000	99412500
Coactosin-like protein	<i>Cotl1</i>	1.04	Up	1359675000	1305625000
Coatomer subunit beta	<i>Copb1</i>	1.06	Up	1112777500	1051637500
Coatomer subunit beta	<i>Copb2</i>	1.01	Down	1691000000	1702775000
Coatomer subunit delta	<i>Arcn1</i>	1.08	Down	661377500	715052500
Coatomer subunit gamma-1	<i>Copg1</i>	1.01	Down	397395000	400800000
Coatomer subunit gamma-2	<i>Copg2</i>	1.05	Up	557542500	530562500
Cocaine- and amphetamine-regulated transcript protein;CART(1-52);CART(55-102);CART(62-102)	<i>Cartpt</i>	1.05	Down	159690500	167835000
Cofilin-1	<i>Cfl1</i>	1.03	Up	11618250000	11298750000
Coiled-coil domain-containing protein 127	<i>Ccdc127</i>	1.31	Up	9697200	7405500
Coiled-coil domain-containing protein 47	<i>Ccdc47</i>	1.06	Down	150742500	160225000
Coiled-coil domain-containing protein 51	<i>Ccdc51</i>	1.08	Down	151900000	164422500
Coiled-coil domain-containing protein 93	<i>Ccdc93</i>	1.29	Down	42769000	55190666.67

Cold shock domain-containing protein E1	<i>Csde1</i>	1.22	Down	115406250	141222500
Cold-inducible RNA-binding protein	<i>Cirbp</i>	1.06	Down	1392280000	1473225000
Complement C3;Complement C3 beta chain;C3-beta-c;Complement C3 alpha chain;C3a anaphylatoxin;Acylation stimulating protein;Complement C3b alpha chain;Complement C3c alpha chain fragment 1;Complement C3dg fragment;Complement C3g fragment;Complement C3d fragment;Complement C3f fragment;Complement C3c alpha chain fragment 2	<i>C3</i>	1.11	Down	478977500	532495000
Complement component 1 Q subcomponent-binding protein, mitochondrial	<i>C1qbp</i>	1.14	Down	847745000	966745000
Complement component receptor 1-like protein	<i>Cr1l</i>	1.07	Down	106438250	113722750
Contactin-1	<i>Cntn1</i>	1.10	Down	2068550000	2279975000
Contactin-associated protein 1	<i>Cntnap1</i>	1.19	Up	221666666.7	187025000
COP9 signalosome complex subunit 1	<i>Gps1</i>	1.04	Down	944920000	985872500
COP9 signalosome complex subunit 2	<i>Cops2</i>	1.08	Up	1188605000	1100715000
COP9 signalosome complex subunit 3	<i>Cops3</i>	1.01	Down	846855000	853530000
COP9 signalosome complex subunit 4	<i>Cops4</i>	1.08	Up	1805575000	1665375000
COP9 signalosome complex subunit 8	<i>Cops8</i>	1.11	Down	302740000	336912500
Copine-9	<i>Cpne9</i>	1.12	Up	387710000	344850000
Copper chaperone for superoxide dismutase	<i>Ccs</i>	1.21	Down	152756666.7	184712500
Copper transport protein ATOX1	<i>Atox1</i>	1.01	Down	309475000	313915000
Coronin-1B	<i>Coro1b</i>	1.05	Down	623502500	656140000
Coronin-7	<i>Coro7</i>	1.09	Down	136747500	149445000
Craniofacial development protein 1	<i>Cfdp1</i>	1.05	Up	105670000	101062000
Creatine kinase B-type	<i>Ckb</i>	1.00	Up	92798000000	92772500000
Creatine kinase M-type	<i>Ckm</i>	1.70	Up	641130000	377383333.3
Creatine kinase U-type, mitochondrial	<i>Ckmt1</i>	1.05	Up	9006550000	8593375000
Crooked neck-like protein 1	<i>Crnkl1</i>	1.10	Up	1095000000	998220000
C-terminal-binding protein 1	<i>Ctbp1</i>	1.03	Up	1470275000	1426175000
C-terminal-binding protein 2	<i>Ctbp2</i>	1.22	Up	926720000	759195000
CTP synthase 2	<i>Ctps2</i>	1.03	Down	85330666.67	88178000
CUGBP Elav-like family member 1	<i>Celf1</i>	1.11	Up	171331500	154957500
CUGBP Elav-like family member 2	<i>Celf2</i>	1.11	Up	1238950000	1120375000
Cullin-3	<i>Cul3</i>	1.07	Down	1024205000	1098125000
Cullin-5	<i>Cul5</i>	1.06	Down	611385000	648687500
Cullin-associated NEDD8-dissociated protein 1	<i>Cand1</i>	1.07	Up	10681500000	9965400000
Cyclin-dependent kinase 17	<i>Cdk17</i>	1.48	Up	33591000	22647000
Cyclin-dependent-like kinase 5	<i>Cdk5</i>	1.09	Down	717620000	779000000
Cyclin-G-associated kinase	<i>Gak</i>	1.33	Up	275375000	207670000
Cystatin-B	<i>Cstb</i>	1.08	Up	654907500	608227500
Cysteine and glycine-rich protein 1	<i>Csrp1</i>	1.13	Up	494517500	439120000
Cysteine and glycine-rich protein 2	<i>Csrp2</i>	1.03	Up	63305000	61370000
Cysteine and histidine-rich domain-containing protein 1	<i>Chordc1</i>	1.17	Up	106470000	91174500
Cysteine desulfurase, mitochondrial	<i>Nfs1</i>	1.39	Down	112246666.7	155570000
Cysteine sulfinic acid decarboxylase	<i>Csad</i>	1.08	Down	337890000	364720000
Cysteine-rich protein 2	<i>Crip2</i>	1.10	Down	813660000	893795000
Cysteine-rich with EGF-like domain protein 1	<i>Creld1</i>	1.07	Down	53613000	57212500
Cytochrome b	<i>Mt-Cyb</i>	1.24	Up	139770000	113110000
Cytochrome b5	<i>Cyb5a</i>	1.01	Down	215947500	217137500
Cytochrome b5 type B	<i>Cyb5b</i>	1.02	Down	609345000	621447500
Cytochrome b-c1 complex subunit 1, mitochondrial	<i>Uqcrc1</i>	1.05	Up	4884900000	4670950000

Cytochrome b-c1 complex subunit 2, mitochondrial	<i>Uqcrc2</i>	1.01	Down	10668550000	10728775000
Cytochrome b-c1 complex subunit 6, mitochondrial	<i>Uqcrh</i>	1.07	Up	361790000	338215000
Cytochrome b-c1 complex subunit 8	<i>Uqcrq</i>	1.04	Up	1463900000	1406275000
Cytochrome b-c1 complex subunit Rieske, mitochondrial;Cytochrome b-c1 complex subunit 11	<i>Uqcrfs1</i>	1.06	Down	1416550000	1503875000
Cytochrome c oxidase subunit 1	<i>Mtco1</i>	1.29	Up	542560000	420583333.3
Cytochrome c oxidase subunit 2	<i>Mtco2</i>	1.06	Up	4976925000	4712325000
Cytochrome c oxidase subunit 3	<i>Mtco3</i>	1.18	Up	151855333.3	129183500
Cytochrome c oxidase subunit 4 isoform 1, mitochondrial	<i>Cox4i1</i>	1.30	Down	5322275000	6912550000
Cytochrome c oxidase subunit 4 isoform 2, mitochondrial	<i>Cox4i2</i>	1.26	Up	348440000	275582500
Cytochrome c oxidase subunit 5A, mitochondrial	<i>Cox5a</i>	1.02	Down	4050500000	4145125000
Cytochrome c oxidase subunit 5B, mitochondrial	<i>Cox5b</i>	1.00	Up	1596275000	1593275000
Cytochrome c oxidase subunit 6A1, mitochondrial	<i>Cox6a1</i>	1.02	Up	927206666.7	905800000
Cytochrome c oxidase subunit 6C-2	<i>Cox6c2</i>	1.22	Down	1671875000	2035775000
Cytochrome c oxidase subunit 7A2, mitochondrial	<i>Cox7a2</i>	1.18	Up	580072500	492022500
Cytochrome c, somatic	<i>Cycs</i>	1.07	Up	5842925000	5455900000
Cytoglobin	<i>Cygb</i>	1.09	Down	1207050000	1309950000
Cytoplasmic aconitate hydratase	<i>Aco1</i>	1.06	Up	1634425000	1542725000
Cytoplasmic dynein 1 heavy chain 1	<i>Dync1h1</i>	1.07	Up	34955250000	32685750000
Cytoplasmic dynein 1 intermediate chain 1	<i>Dync1i1</i>	1.37	Up	132340000	96435500
Cytoplasmic dynein 1 intermediate chain 2	<i>Dync1i2</i>	1.12	Up	465702500	414400000
Cytoplasmic dynein 1 light intermediate chain 1	<i>Dync1li1</i>	1.13	Down	1065242500	1203450000
Cytoplasmic dynein 1 light intermediate chain 2	<i>Dync1li2</i>	1.10	Down	242553500	267887500
Cytoplasmic dynein 2 heavy chain 1	<i>Dync2h1</i>	1.47	Down	132841500	195246666.7
Cytosol aminopeptidase	<i>Lap3</i>	1.12	Up	2099200000	1873325000
Cytosolic acyl coenzyme A thioester hydrolase	<i>Acot7</i>	1.02	Down	2055200000	2095475000
Cytosolic non-specific dipeptidase	<i>Cndp2</i>	1.21	Down	1931625000	2346150000
D-3-phosphoglycerate dehydrogenase	<i>Phgdh</i>	1.19	Up	643742500	539642500
D-beta-hydroxybutyrate dehydrogenase, mitochondrial	<i>Bdh1</i>	1.10	Up	599750000	546857500
DDB1- and CUL4-associated factor 8	<i>Dcaf8</i>	1.09	Up	75405000	69174666.67
D-dopachrome decarboxylase	<i>Ddt</i>	1.09	Down	2498975000	2716750000
Delta(3,5)-Delta(2,4)-dienoyl-CoA isomerase, mitochondrial	<i>Ech1</i>	1.20	Up	153865000	127990000
Delta-1-pyrroline-5-carboxylate dehydrogenase, mitochondrial	<i>Aldh4a1</i>	1.11	Down	648040000	716342500
Delta-aminolevulinic acid dehydratase	<i>Alad</i>	1.13	Up	362032500	320477500
Deoxyhypusine synthase	<i>Dhps</i>	1.41	Up	61238500	43553000
Dephospho-CoA kinase domain-containing protein	<i>Dcakd</i>	1.30	Down	21367000	27695500
Destrin	<i>Dstn</i>	1.14	Up	2849375000	2506300000
Deubiquitinating protein VCIP135	<i>Vcpip1</i>	1.25	Down	87165000	108924250
Diacylglycerol kinase zeta	<i>Dgkz</i>	1.08	Up	45510500	42246500
Dihydrolipoyl dehydrogenase, mitochondrial	<i>Dld</i>	1.03	Up	4284775000	4156875000
Dihydrolipoyllysine-residue acetyltransferase component of pyruvate dehydrogenase complex, mitochondrial	<i>Dlat</i>	1.09	Up	5067750000	4630450000
Dihydrolipoyllysine-residue succinyltransferase component of 2-oxoglutarate dehydrogenase complex, mitochondrial	<i>Dlst</i>	1.04	Up	1628725000	1569525000

Dihydropteridine reductase	<i>Qdpr</i>	1.08	Down	1921250000	2072125000
Dihydropyrimidinase-related protein 1	<i>Crmp1</i>	1.02	Down	9807025000	9972525000
Dihydropyrimidinase-related protein 2	<i>Dpysl2</i>	1.01	Up	68687250000	68087250000
Dihydropyrimidinase-related protein 3	<i>Dpysl3</i>	1.01	Up	8753425000	8670625000
Dihydropyrimidinase-related protein 4	<i>Dpysl4</i>	1.02	Up	19762500000	19328750000
Dihydropyrimidinase-related protein 5	<i>Dpysl5</i>	1.01	Down	10870950000	10985575000
Dipeptidyl aminopeptidase-like protein 6	<i>Dpp6</i>	1.17	Down	635902500	745355000
Dipeptidyl peptidase 3	<i>Dpp3</i>	1.06	Up	718152500	680207500
Diphosphoinositol polyphosphate phosphohydrolase 1	<i>Nudt3</i>	1.28	Down	273140000	350660000
Diphosphoinositol polyphosphate phosphohydrolase 2	<i>Nudt4</i>	1.51	Up	59385000	39292000
Diphosphomevalonate decarboxylase	<i>Mvd</i>	1.03	Up	133126666.7	129473333.3
Disabled homolog 2-interacting protein	<i>Dab2ip</i>	1.16	Up	113310000	97827250
Disks large homolog 1	<i>Dlg1</i>	1.26	Up	226430000	179730000
Disks large homolog 2	<i>Dlg2</i>	1.04	Up	2162450000	2087700000
Disks large homolog 3	<i>Dlg3</i>	1.19	Up	99968000	83712000
Disks large homolog 4	<i>Dlg4</i>	1.07	Up	1278925000	1195350000
DNA damage-binding protein 1	<i>Ddb1</i>	1.03	Up	3115475000	3031200000
DNA repair protein XRCC1	<i>Xrcc1</i>	1.15	Up	25060000	21846000
DNA topoisomerase 1	<i>Top1</i>	1.52	Up	57442000	37900000
DNA topoisomerase 2-alpha	<i>Top2a</i>	1.81	Up	152155000	83870333.33
DNA-(apurinic or apyrimidinic site) lyase;DNA-(apurinic or apyrimidinic site) lyase, mitochondrial	<i>Apex1</i>	1.03	Down	1779650000	1826375000
DnaJ homolog subfamily A member 1	<i>Dnaja1</i>	1.06	Up	587180000	553777500
DnaJ homolog subfamily A member 2	<i>Dnaja2</i>	1.13	Down	848457500	959552500
DnaJ homolog subfamily B member 11	<i>Dnajib11</i>	1.23	Down	266510000	328356666.7
DnaJ homolog subfamily C member 5	<i>Dnajc5</i>	1.06	Down	2786875000	2947525000
DnaJ homolog subfamily C member 8	<i>Dnajc8</i>	1.41	Down	234242500	330770000
Dolichyl-diphosphooligosaccharide--protein glycosyltransferase 48 kDa subunit	<i>Ddost</i>	1.15	Up	1128070000	976770000
Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 1	<i>Rpn1</i>	1.06	Up	2247975000	2120925000
Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 2	<i>Rpn2</i>	1.01	Up	1059145000	1047920000
Drebrin	<i>Dbn1</i>	1.38	Down	508357500	699162500
Drebrin-like protein	<i>Dbnl</i>	1.06	Down	381267500	402685000
Dual specificity mitogen-activated protein kinase kinase 1	<i>Map2k1</i>	1.06	Down	1030570000	1090725000
Dual specificity mitogen-activated protein kinase kinase 2	<i>Map2k2</i>	1.09	Down	263075000	286335000
Dual specificity tyrosine-phosphorylation-regulated kinase 1A	<i>Dyrk1a</i>	1.60	Down	74864000	119740000
Dynactin subunit 1	<i>Dctn1</i>	1.03	Up	2989975000	2898725000
Dynactin subunit 2	<i>Dctn2</i>	1.01	Down	3579775000	3616050000
Dynactin subunit 4	<i>Dctn4</i>	1.16	Up	528265000	453982500
Dynamamin-1	<i>Dnm1</i>	1.04	Up	20937750000	20104000000
Dynamamin-1-like protein	<i>Dnm1l</i>	1.06	Up	3076200000	2891225000
Dynamamin-2	<i>Dnm2</i>	1.22	Up	1169297500	955762500
Dynamamin-3	<i>Dnm3</i>	1.07	Up	1858275000	1744125000
Dynamamin-like 120 kDa protein, mitochondrial;Dynamamin-like 120 kDa protein, form S1	<i>Opa1</i>	1.03	Up	1278050000	1243450000
Dynein light chain 2, cytoplasmic	<i>Dynll2</i>	1.05	Up	3022000000	2874600000
Dynein light chain roadblock-type 1	<i>Dynlrb1</i>	1.17	Down	402870000	469890000
Dystrophin	<i>Dmd</i>	1.36	Up	330260000	243010000
E3 ubiquitin-protein ligase BRE1B	<i>Rnf40</i>	1.03	Up	107166666.7	103698000
E3 ubiquitin-protein ligase NEDD4	<i>Nedd4</i>	1.05	Down	1102540000	1159150000
E3 ubiquitin-protein ligase RNF123	<i>Rnf123</i>	1.09	Up	65552000	60024000
E3 ubiquitin-protein ligase UBR4	<i>Ubr4</i>	1.17	Down	353000000	411497500
E3 UFM1-protein ligase 1	<i>Ufl1</i>	1.10	Up	97281000	88604666.67

Echinoderm microtubule-associated protein-like 1	<i>Eml1</i>	1.03	Down	74647000	77119000
Echinoderm microtubule-associated protein-like 2	<i>Eml2</i>	1.06	Down	284425000	302717500
Ectonucleoside triphosphate diphosphohydrolase 2	<i>Entpd2</i>	1.32	Down	30518000	40215666.67
Ectonucleotide pyrophosphatase/phosphodiesterase family member 5	<i>Enpp5</i>	1.21	Up	221680000	183565000
EF-hand domain-containing protein D2	<i>Efh2</i>	1.09	Down	557167500	605327500
EH domain-containing protein 1	<i>Ehd1</i>	1.02	Up	1676475000	1640625000
EH domain-containing protein 3	<i>Ehd3</i>	1.09	Down	466940000	509670000
ELAV-like protein 4	<i>Elavl4</i>	1.30	Down	293995000	382092500
Electron transfer flavoprotein subunit alpha, mitochondrial	<i>Etf1a</i>	1.03	Up	1752150000	1697900000
Electron transfer flavoprotein subunit beta	<i>Etf1b</i>	1.08	Up	721117500	664887500
Electron transfer flavoprotein-ubiquinone oxidoreductase, mitochondrial	<i>Etf1dh</i>	1.66	Up	133353333.3	80505000
Elongation factor 1-alpha 1	<i>Eef1a1</i>	1.01	Down	30600000000	30839750000
Elongation factor 1-alpha 2	<i>Eef1a2</i>	1.07	Up	4201575000	3934950000
Elongation factor 1-delta	<i>Eef1d</i>	1.08	Down	1107050000	1195900000
Elongation factor 1-gamma	<i>Eef1g</i>	1.05	Up	4511200000	4291800000
Elongation factor 2	<i>Eef2</i>	1.01	Down	10288150000	10419325000
Elongation factor Tu, mitochondrial	<i>Tufm</i>	1.05	Up	4241075000	4020275000
Elongator complex protein 1	<i>Ikbkap</i>	1.10	Up	980387500	887767500
Elongator complex protein 2	<i>Elp2</i>	1.03	Down	212246666.7	217995000
Embigin	<i>Emb</i>	1.11	Down	191885000	212682500
Endophilin-A1	<i>Sh3gl2</i>	1.03	Up	4931150000	4791525000
Endophilin-A2	<i>Sh3gl1</i>	1.04	Up	151630000	146410000
Endophilin-B1	<i>Sh3glb1</i>	1.02	Down	131373333.3	133939500
Endophilin-B2	<i>Sh3glb2</i>	1.01	Up	508257500	502560000
Endoplasmic reticulum resident protein 29	<i>Erp29</i>	1.03	Up	621775000	602942500
Endoplasmin	<i>Hsp90b1</i>	1.05	Up	6463950000	6165925000
Endothelial differentiation-related factor 1	<i>Edf1</i>	1.08	Down	210013333.3	227110000
Enhancer of mRNA-decapping protein 4	<i>Edc4</i>	1.01	Down	140307000	141517500
Enolase-phosphatase E1	<i>Enoph1</i>	1.03	Down	314462500	323360000
Enoyl-CoA delta isomerase 1, mitochondrial	<i>Eci1</i>	1.01	Down	837167500	848575000
Enoyl-CoA delta isomerase 2, mitochondrial	<i>Eci2</i>	1.03	Down	164162500	169200000
Enoyl-CoA hydratase, mitochondrial	<i>Echs1</i>	1.01	Down	1292200000	1308550000
Ephrin type-B receptor 1;Ephrin type-A receptor 6	<i>Ephb1;Epha6</i>	1.38	Up	243163333.3	176490000
Epsin-1	<i>Epn1</i>	1.05	Up	360197500	341900000
ER membrane protein complex subunit 2	<i>Emc2</i>	1.17	Down	208270000	243205000
ER membrane protein complex subunit 3	<i>Emc3</i>	1.15	Up	130300000	113208333.3
ER membrane protein complex subunit 8	<i>Emc8</i>	1.27	Up	271150000	213530000
Erlin-2	<i>Erlin2</i>	1.04	Up	1866125000	1800400000
ERO1-like protein alpha	<i>Ero1l</i>	1.16	Down	155325000	180886666.7
ES1 protein homolog, mitochondrial	<i>C21orf33</i>	1.01	Up	2076875000	2066175000
Ester hydrolase C11orf54 homolog	<i>N/A</i>	1.47	Down	371655000	546245000
Estradiol 17-beta-dehydrogenase 8	<i>Hsd17b8</i>	1.16	Down	40091000	46445666.67
Ethanolamine-phosphate cytidylyltransferase	<i>Pcyt2</i>	1.02	Up	117134750	115013500
Ethylmalonyl-CoA decarboxylase	<i>Echdc1</i>	1.28	Up	175870000	137840000
Eukaryotic initiation factor 4A-II;Eukaryotic initiation factor 4A-II, N-terminally processed	<i>Eif4a2</i>	1.00	Down	6176475000	6200725000
Eukaryotic initiation factor 4A-III;Eukaryotic initiation factor 4A-III, N-terminally processed	<i>Eif4a3</i>	1.14	Down	1543950000	1766300000
Eukaryotic peptide chain release factor subunit 1	<i>Etf1</i>	1.06	Up	121140000	114486666.7

Eukaryotic translation initiation factor 1A	<i>Eif1a</i>	1.67	Up	102425500	61270000
Eukaryotic translation initiation factor 2 subunit 1	<i>Eif2s1</i>	1.02	Down	565380000	574070000
Eukaryotic translation initiation factor 2 subunit 3	<i>Eif2s3</i>	1.13	Down	853010000	960195000
Eukaryotic translation initiation factor 3 subunit A	<i>Eif3a</i>	1.07	Up	1370625000	1283300000
Eukaryotic translation initiation factor 3 subunit B	<i>Eif3b</i>	1.00	Down	569387500	570860000
Eukaryotic translation initiation factor 3 subunit C	<i>Eif3c</i>	1.04	Down	742740000	774672500
Eukaryotic translation initiation factor 3 subunit D	<i>Eif3d</i>	1.35	Up	411957500	304757500
Eukaryotic translation initiation factor 3 subunit E	<i>Eif3e</i>	1.06	Up	567937500	537272500
Eukaryotic translation initiation factor 3 subunit G	<i>Eif3g</i>	1.12	Up	202360000	181340000
Eukaryotic translation initiation factor 3 subunit H	<i>Eif3h</i>	1.10	Down	185925000	205422500
Eukaryotic translation initiation factor 3 subunit I	<i>Eif3i</i>	1.05	Up	432502500	412465000
Eukaryotic translation initiation factor 4E	<i>Eif4e</i>	1.01	Up	570132500	563075000
Eukaryotic translation initiation factor 4H	<i>Eif4h</i>	1.32	Down	586937500	776885000
Eukaryotic translation initiation factor 5	<i>Eif5</i>	1.03	Up	269870000	261230000
Eukaryotic translation initiation factor 5A-1	<i>Eif5a</i>	1.06	Up	1855425000	1743200000
Eukaryotic translation initiation factor 6	<i>Eif6</i>	1.04	Down	188422500	195895000
Excitatory amino acid transporter 1	<i>Slc1a3</i>	1.02	Up	5637925000	5547800000
Exocyst complex component 2	<i>Exoc2</i>	1.06	Down	69918000	74023500
Exportin-1	<i>Xpo1</i>	1.10	Up	3587775000	3271650000
Extended synaptotagmin-1	<i>Esyf1</i>	1.02	Up	129497500	126890000
Ezrin	<i>Ezr</i>	1.28	Down	558290000	716712500
F-actin-capping protein subunit alpha-1	<i>Capza1</i>	1.09	Up	385023333.3	353942500
F-actin-capping protein subunit alpha-2	<i>Capza2</i>	1.07	Down	1644400000	1757475000
F-actin-capping protein subunit beta	<i>Capzb</i>	1.26	Down	2110025000	2663500000
Far upstream element-binding protein 1	<i>Fubp1</i>	1.09	Down	1201522500	1311100000
Far upstream element-binding protein 2	<i>Khsrp</i>	1.11	Down	4186525000	4638725000
Farnesyl pyrophosphate synthase	<i>Fdps</i>	1.11	Up	1007287500	907285000
FAS-associated factor 2	<i>Faf2</i>	1.05	Up	230755000	219447500
Fascin	<i>Fscn1</i>	1.17	Down	4726950000	5516200000
Fatty acid synthase;[Acyl-carrier-protein] S-acetyltransferase;[Acyl-carrier-protein] S-malonyltransferase;3-oxoacyl-[acyl-carrier-protein] synthase;3-oxoacyl-[acyl-carrier-protein] reductase;3-hydroxyacyl-[acyl-carrier-protein] dehydratase;Enoyl-[acyl-carrier-protein] reductase;Oleoyl-[acyl-carrier-protein] hydrolase	<i>Fasn</i>	1.04	Up	5155000000	4973700000
Fatty acid-binding protein, epidermal	<i>Fabp5</i>	1.24	Up	3915750000	3154100000
Fatty acid-binding protein, heart	<i>Fabp3</i>	1.00	Up	800862500	799795000
Fatty aldehyde dehydrogenase	<i>Aldh3a2</i>	1.08	Up	1538275000	1424325000
Fatty-acid amide hydrolase 1	<i>Faah</i>	1.18	Up	115700000	98455000
F-box only protein 6	<i>Fbxo6</i>	1.13	Up	351442500	311037500
FERM, RhoGEF and pleckstrin domain-containing protein 1	<i>Farp1</i>	1.00	Down	77464000	77742500
Ferritin heavy chain;Ferritin heavy chain, N-terminally processed	<i>Fth1</i>	1.02	Down	1071757500	1094730000
Ferritin light chain 1;Protein FAM65B	<i>Ftl1;Fam65b</i>	1.28	Up	1986175000	1546800000
Fibrinogen alpha chain;Fibrinopeptide A;Fibrinogen alpha chain	<i>Fga</i>	1.86	Down	65288500	121578750
Fibrinogen beta chain;Fibrinopeptide B;Fibrinogen beta chain	<i>Fgb</i>	1.42	Down	67483000	96078000
Fibrinogen gamma chain	<i>Fgg</i>	1.45	Down	94733000	136922500
Fibroblast growth factor 2	<i>Fgf2</i>	1.37	Up	230947500	168823333.3

Filamin-C	<i>Flnc</i>	1.55	Up	222650000	143610000
Flap endonuclease 1	<i>Fen1</i>	1.12	Up	756302500	678247500
Four and a half LIM domains protein 1	<i>Fhl1</i>	1.13	Up	648537500	572940000
Fragile X mental retardation protein 1 homolog	<i>Fmr1</i>	1.15	Up	145952500	126827500
Fructose-bisphosphate aldolase A	<i>Aldoa</i>	1.12	Down	54270250000	60619500000
Fructose-bisphosphate aldolase C	<i>Aldoc</i>	1.02	Down	35491000000	36365500000
Fumarate hydratase, mitochondrial	<i>Fh</i>	1.05	Up	2440550000	2321325000
Fumarylacetoacetate hydrolase domain-containing protein 2	<i>Fahd2</i>	1.06	Up	1061852500	999592500
FUN14 domain-containing protein 1	<i>Func1</i>	1.26	Down	40045000	50572000
G protein-activated inward rectifier potassium channel 4	<i>Kcnj5</i>	1.22	Up	33148000	27097000
Galectin-1	<i>Lgals1</i>	1.12	Down	891037500	995640000
Gamma-adducin	<i>Add3</i>	1.03	Down	1273317500	1307250000
Gamma-aminobutyric acid receptor subunit alpha-1	<i>Gabra1</i>	1.26	Down	122369500	154087500
Gamma-aminobutyric acid receptor subunit beta-3	<i>Gabrb3</i>	1.27	Up	314863333.3	247365000
Gamma-aminobutyric acid receptor subunit gamma-2	<i>Gabrg2</i>	1.14	Up	142395000	124815000
Gamma-aminobutyric acid receptor-associated protein-like 2	<i>Gabarapl2</i>	1.03	Up	106259000	103305500
Gamma-aminobutyric acid type B receptor subunit 1	<i>Gabbr1</i>	1.36	Down	76157000	103348000
Gamma-crystallin B	<i>Crygb</i>	1.70	Down	168032500	285753333.3
Gamma-crystallin C	<i>Crygc</i>	1.99	Up	41397650	20802250
Gamma-crystallin D	<i>Crygd</i>	1.11	Up	153507500	138702500
Gamma-enolase	<i>Eno2</i>	1.02	Up	36167750000	35339750000
Gamma-glutamyltransferase 7;Gamma-glutamyltransferase 7 heavy chain;Gamma-glutamyltransferase 7 light chain	<i>Ggt7</i>	1.02	Down	129810000	131882500
Gamma-synuclein	<i>Sncg</i>	1.47	Down	609750000	896367500
Gelsolin	<i>Gsn</i>	1.11	Down	235106666.7	260227500
General transcription factor IIF subunit 2	<i>Gtf2f2</i>	1.06	Down	202722500	215075000
General transcription factor II-I	<i>Gtf2i</i>	1.04	Up	958157500	920080000
General vesicular transport factor p115	<i>Uso1</i>	1.11	Up	816972500	733087500
Gephyrin;Molybdopterin adenylyltransferase;Molybdopterin molybdenumtransferase	<i>Gphn</i>	1.00	Down	1436875000	1443850000
Geranylgeranyl transferase type-2 subunit alpha	<i>Rabggt2</i>	1.08	Up	278692500	257482500
Glia maturation factor beta	<i>Gmfb</i>	1.30	Down	887127500	1156325000
Glial fibrillary acidic protein	<i>Gfap</i>	1.01	Down	45340500000	45946250000
Glucose-6-phosphate 1-dehydrogenase	<i>G6pdx</i>	1.04	Up	2812925000	2706425000
Glucose-6-phosphate isomerase	<i>Gpi</i>	1.01	Down	49207000000	49529000000
Glutamate decarboxylase 1	<i>Gad1</i>	1.00	Up	501082500	500717500
Glutamate decarboxylase 2	<i>Gad2</i>	1.06	Up	1393050000	1317050000
Glutamate dehydrogenase 1, mitochondrial	<i>Glud1</i>	1.10	Up	6985125000	6366775000
Glutamate receptor-interacting protein 1	<i>Grip1</i>	1.07	Up	130520000	121563333.3
Glutaminase kidney isoform, mitochondrial;Glutaminase kidney isoform 68 kDa chain;Glutaminase kidney isoform 65 kDa chain	<i>Gls</i>	1.08	Up	5973325000	5547725000
Glutamine synthetase	<i>Glul</i>	1.12	Up	75880750000	67674750000
Glutaredoxin-3	<i>Glr3</i>	1.01	Up	532307500	525332500
Glutathione peroxidase 1	<i>Gpx1</i>	1.08	Down	319337500	346390000
Glutathione reductase	<i>Gsr</i>	1.11	Down	489040000	540580000
Glutathione S-transferase A6	<i>Gsta6</i>	1.14	Up	208200000	182676666.7
Glutathione S-transferase alpha-3;Glutathione S-transferase alpha-5	<i>Gsta3;Gsta5</i>	1.06	Down	31239000000	32991250000
Glutathione S-transferase alpha-4	<i>Gsta4</i>	1.08	Up	1383400000	1286475000

Glutathione S-transferase kappa 1	<i>Gstk1</i>	1.29	Up	184072500	142260000
Glutathione S-transferase Mu 1	<i>Gstm1</i>	1.09	Up	1912300000	1751625000
Glutathione S-transferase Mu 5	<i>Gstm5</i>	1.18	Up	2524200000	2143000000
Glutathione S-transferase omega-1	<i>Gsto1</i>	1.13	Up	688112500	608105000
Glutathione S-transferase P	<i>Gstp1</i>	1.00	Up	8590900000	8554050000
Glutathione S-transferase theta-2	<i>Gstt2</i>	1.01	Down	1782475000	1794100000
Glutathione S-transferase Yb-3	<i>Gstm3</i>	1.12	Down	9172700000	10287450000
Glutathione synthetase	<i>Gss</i>	1.04	Down	347905000	360752500
Glyceraldehyde-3-phosphate dehydrogenase	<i>Gapdh</i>	1.02	Up	1.85683E+11	1.82475E+11
Glycerol kinase	<i>Gk</i>	1.05	Down	228057500	240527500
Glycerophosphodiester phosphodiesterase 1	<i>Gde1</i>	1.20	Down	192427500	230490000
Glycerophosphodiester phosphodiesterase domain-containing protein 1	<i>Gdpd1</i>	1.12	Down	118494666.7	133080000
Glycine cleavage system H protein, mitochondrial	<i>Gcsh</i>	1.76	Up	142490000	80924000
Glycine--tRNA ligase	<i>Gars</i>	1.09	Down	1230860000	1342525000
Glycogen phosphorylase, brain form	<i>Pygb</i>	1.05	Up	9647900000	9177075000
Glycogen phosphorylase, liver form	<i>Pygl</i>	1.26	Up	326572500	260172500
Glycogen phosphorylase, muscle form	<i>Pygm</i>	1.19	Up	90068333.33	75990000
Glycogen synthase kinase-3 alpha	<i>Gsk3a</i>	1.02	Up	253237500	248042500
Glycogen synthase kinase-3 beta	<i>Gsk3b</i>	1.01	Up	467957500	461822500
Glycogenin-1	<i>Gyg1</i>	1.10	Down	407350000	447437500
Glycylpeptide N-tetradecanoyltransferase 1	<i>Nmt1</i>	1.11	Up	295325000	266047500
Glyoxalase domain-containing protein 4	<i>Glod4</i>	1.02	Up	1212450000	1188475000
GMP reductase 1	<i>Gmpr</i>	1.10	Down	199357500	219190000
GMP synthase [glutamine-hydrolyzing]	<i>Gmps</i>	1.07	Up	742080000	690467500
Golgi apparatus protein 1	<i>Glg1</i>	1.25	Up	522922500	419327500
Golgi reassembly-stacking protein 1	<i>Gorasp1</i>	1.47	Up	56870000	38790000
Golgi reassembly-stacking protein 2	<i>Gorasp2</i>	1.18	Down	297852500	352140000
Golgi resident protein GCP60	<i>Acbd3</i>	1.97	Up	117733500	59821500
Golgi SNAP receptor complex member 2	<i>Gosr2</i>	1.25	Down	118532500	147585250
Golgin subfamily A member 2	<i>Golga2</i>	1.26	Up	145723333.3	116085000
Golgin subfamily A member 4	<i>Golga4</i>	1.27	Down	52507000	66754000
GPI inositol-deacylase	<i>Pgap1</i>	1.74	Down	81943500	142834750
Graves disease carrier protein	<i>Slc25a16</i>	1.17	Up	8755850	7511566.667
GRIP1-associated protein 1	<i>Gripap1</i>	1.14	Down	210952500	240100000
Growth arrest-specific protein 7	<i>Gas7</i>	1.12	Up	31886000	28573000
Growth factor receptor-bound protein 2	<i>Grb2</i>	1.31	Down	313412500	409030000
Growth hormone-inducible transmembrane protein	<i>Ghitm</i>	1.29	Down	227832500	294775000
GrpE protein homolog 1, mitochondrial	<i>Grpel1</i>	1.09	Up	394355000	360757500
GTP:AMP phosphotransferase AK3, mitochondrial	<i>Ak3</i>	1.07	Down	266315000	285325000
GTPase HRas;GTPase HRas, N-terminally processed	<i>Hras</i>	1.07	Down	622460000	668580000
GTPase KRas;GTPase KRas, N-terminally processed	<i>Kras</i>	1.30	Down	245123333.3	317807500
GTP-binding nuclear protein Ran;GTP-binding nuclear protein Ran, testis-specific isoform	<i>Ran;Rasl2-9</i>	1.18	Down	9570850000	11275775000
GTP-binding protein 1	<i>Gtpbp1</i>	1.04	Down	484715000	503775000
GTP-binding protein Rheb	<i>Rheb</i>	1.17	Up	260770000	222916666.7
GTP-binding protein SAR1b	<i>Sar1b</i>	1.04	Down	165343333.3	172272500
Guanine nucleotide-binding protein G(i) subunit alpha-1	<i>Gnai1</i>	1.03	Down	672870000	694762500
Guanine nucleotide-binding protein G(i) subunit alpha-2	<i>Gnai2</i>	1.10	Up	6426075000	5866200000
Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-11	<i>Gng11</i>	2.00	Down	317790000	634080000

Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-1	<i>Gnb1</i>	1.12	Up	80706250000	72144000000
Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-2	<i>Gnb2</i>	1.03	Up	6113350000	5906675000
Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-3	<i>Gnb3</i>	1.05	Up	5785950000	5497625000
Guanine nucleotide-binding protein G(k) subunit alpha	<i>Gnai3</i>	1.16	Down	212043333.3	245787500
Guanine nucleotide-binding protein G(o) subunit alpha	<i>Gnao1</i>	1.12	Up	32652500000	29154750000
Guanine nucleotide-binding protein G(q) subunit alpha	<i>Gnaq</i>	1.10	Up	1922075000	1743100000
Guanine nucleotide-binding protein G(s) subunit alpha isoforms short;Guanine nucleotide-binding protein G(s) subunit alpha isoforms XLas	<i>Gnas</i>	1.01	Down	592595000	596167500
Guanine nucleotide-binding protein G(t) subunit alpha-3	<i>Gnat3</i>	1.08	Up	8918625000	8286775000
Guanine nucleotide-binding protein G(z) subunit alpha	<i>Gnaz</i>	1.17	Up	1046917500	897355000
Guanine nucleotide-binding protein subunit alpha-11	<i>Gna11</i>	1.01	Up	492622500	487447500
Guanine nucleotide-binding protein subunit alpha-13	<i>Gna13</i>	1.04	Up	244402500	235722500
Guanine nucleotide-binding protein subunit beta-2-like 1;Guanine nucleotide-binding protein subunit beta-2-like 1, N-terminally processed	<i>Gnb2l1</i>	1.04	Up	4232350000	4068100000
Guanine nucleotide-binding protein subunit beta-5	<i>Gnb5</i>	1.25	Up	2115825000	1697950000
Guanine nucleotide-binding protein-like 1	<i>Gnl1</i>	1.12	Down	108306750	121226666.7
Guanylate cyclase soluble subunit alpha-2	<i>Gucy1a2</i>	1.34	Up	64621500	48102000
Guanylate cyclase soluble subunit alpha-3	<i>Gucy1a3</i>	1.02	Up	1631400000	1603750000
Guanylate cyclase soluble subunit beta-1	<i>Gucy1b3</i>	1.01	Down	3295875000	3315875000
Guanylyl cyclase GC-E	<i>Gucy2e</i>	1.19	Up	1921875000	1611225000
H(+)/Cl(-) exchange transporter 4	<i>Clcn4</i>	1.02	Down	45154000	45871000
H/ACA ribonucleoprotein complex subunit 4	<i>Dkc1</i>	1.11	Down	193385000	214427500
Haloacid dehalogenase-like hydrolase domain-containing protein 2	<i>Hdhd2</i>	1.07	Up	572632500	535422500
Haptoglobin;Haptoglobin alpha chain;Haptoglobin beta chain	<i>Hp</i>	1.35	Down	57383000	77297500
Heat shock 70 kDa protein 13	<i>Hspa13</i>	1.00	Down	188020000	188536666.7
Heat shock 70 kDa protein 1B;Heat shock 70 kDa protein 1A	<i>Hspa1a</i>	1.18	Up	8285150000	7034350000
Heat shock 70 kDa protein 4	<i>Hspa4</i>	1.00	Up	6784950000	6778875000
Heat shock cognate 71 kDa protein	<i>Hspa8</i>	1.13	Up	59393000000	52725000000
Heat shock protein 105 kDa	<i>Hsph1</i>	1.16	Up	951197500	818570000
Heat shock protein 75 kDa, mitochondrial	<i>Trap1</i>	1.08	Down	619815000	669042500
Heat shock protein HSP 90-alpha	<i>Hsp90aa1</i>	1.05	Up	53325000000	50677500000
Heat shock protein HSP 90-beta	<i>Hsp90ab1</i>	1.13	Up	15079000000	13377250000
Heat shock-related 70 kDa protein 2	<i>Hspa2</i>	1.25	Down	335715000	421197500
Heme oxygenase 2	<i>Hmox2</i>	1.07	Up	221450000	206350000
Hemoglobin subunit alpha-1/2	<i>Hba1</i>	1.13	Down	27838000000	31397500000
Hemoglobin subunit beta-1	<i>Hbb</i>	1.14	Down	39393750000	44857000000
Hemoglobin subunit beta-2	<i>Hbb-b2</i>	2.31	Down	1296967500	2997475000
Hemopexin	<i>Hpx</i>	1.06	Down	255630000	271825000
Hepatocyte growth factor-regulated tyrosine kinase substrate	<i>Hgs</i>	1.14	Down	286605000	326682500
Hepatoma-derived growth factor	<i>Hdgf</i>	1.12	Up	1721550000	1539525000
Hepatoma-derived growth factor-related protein 2	<i>Hdgfrp2</i>	1.13	Up	296447500	262925000
Hepatoma-derived growth factor-related protein 3	<i>Hdgfrp3</i>	1.05	Up	826805000	785612500

Heterochromatin protein 1-binding protein 3	<i>Hp1bp3</i>	1.33	Up	503252500	377260000
Heterogeneous nuclear ribonucleoprotein A1;Heterogeneous nuclear ribonucleoprotein A1, N-terminally processed	<i>Hnrnpa1</i>	1.18	Down	5288775000	6215050000
Heterogeneous nuclear ribonucleoprotein A3	<i>Hnrnpa3</i>	1.21	Down	9026475000	10925000000
Heterogeneous nuclear ribonucleoprotein C	<i>Hnrnpc</i>	1.16	Down	3123450000	3624950000
Heterogeneous nuclear ribonucleoprotein D0	<i>Hnrnpd</i>	1.00	Down	10995725000	11008500000
Heterogeneous nuclear ribonucleoprotein D-like	<i>Hnrnpdl</i>	1.17	Down	1690750000	1971825000
Heterogeneous nuclear ribonucleoprotein F;Heterogeneous nuclear ribonucleoprotein F, N-terminally processed	<i>Hnrnpf</i>	1.20	Down	1682732500	2024550000
Heterogeneous nuclear ribonucleoprotein H;Heterogeneous nuclear ribonucleoprotein H, N-terminally processed	<i>Hnrnph1</i>	1.13	Down	7179325000	8088400000
Heterogeneous nuclear ribonucleoprotein H2	<i>Hnrnph2</i>	1.03	Down	2278400000	2346125000
Heterogeneous nuclear ribonucleoprotein K	<i>Hnrnpk</i>	1.01	Up	20011500000	19891250000
Heterogeneous nuclear ribonucleoprotein M	<i>Hnrnpm</i>	1.01	Down	7175225000	7281125000
Heterogeneous nuclear ribonucleoprotein Q	<i>Syncrip</i>	1.05	Up	1231685000	1171525000
Heterogeneous nuclear ribonucleoproteins A2/B1	<i>Hnrnpa2b1</i>	1.33	Down	16343250000	21767250000
Hexokinase-1	<i>Hk1</i>	1.08	Up	21469250000	19893000000
Hexokinase-2	<i>Hk2</i>	1.06	Up	5568225000	5244700000
High affinity choline transporter 1	<i>Slc5a7</i>	1.02	Down	52821500	53963000
High mobility group nucleosome-binding domain-containing protein 5	<i>Hmgn5</i>	1.04	Down	350206666.7	363690000
High mobility group protein B1	<i>Hmgb1</i>	1.08	Down	18432250000	19818000000
High mobility group protein B2	<i>Hmgb2</i>	1.19	Down	3591000000	4291200000
High mobility group protein HMG-I/HMG-Y	<i>Hmga1</i>	1.06	Up	149619666.7	141102500
Hippocalcin-like protein 1	<i>Hpcal1</i>	1.07	Up	1553875000	1446350000
Hippocalcin-like protein 4	<i>Hpcal4</i>	1.22	Up	361112500	296485000
Histidine triad nucleotide-binding protein 1	<i>Hint1</i>	1.09	Down	3708975000	4035175000
Histone deacetylase 1	<i>Hdac1</i>	1.14	Down	790920000	899390000
Histone H1.4	<i>Hist1h1e</i>	1.08	Up	2014800000	1872325000
Histone H2A type 2-A	<i>Hist2h2aa3</i>	1.99	Down	4218075000	8381700000
Histone H2A.Z	<i>H2afz</i>	1.07	Up	1872875000	1748800000
Histone H2B type 1;Histone H2B type 1-A	<i>Hist1h2ba</i>	1.78	Down	4303400000	7642825000
Histone H3.3;Histone H3.1	<i>H3f3b</i>	1.87	Down	925393333.3	1734025000
Histone H4;Osteogenic growth peptide	<i>Hist1h4b</i>	2.07	Down	2266950000	4700975000
Histone-binding protein RBBP7	<i>Rbbp7</i>	1.08	Up	1297550000	1200075000
Homer protein homolog 1	<i>Homer1</i>	1.40	Down	26482000	37039000
Hsc70-interacting protein	<i>Stt13</i>	1.22	Down	1507625000	1832875000
Hsp90 co-chaperone Cdc37;Hsp90 co-chaperone Cdc37, N-terminally processed	<i>Cdc37</i>	1.06	Up	800742500	756665000
Huntingtin	<i>Htt</i>	1.16	Down	133722500	155640000
Hydroxyacyl-coenzyme A dehydrogenase, mitochondrial	<i>Hadh</i>	1.15	Up	410652500	357877500
Hydroxyacylglutathione hydrolase, mitochondrial	<i>Hagh</i>	1.19	Up	719777500	605027500
Hydroxymethylglutaryl-CoA lyase, mitochondrial	<i>Hmgcl</i>	1.16	Up	547810000	473795000

Hydroxymethylglutaryl-CoA synthase, cytoplasmic	<i>Hmgcs1</i>	1.27	Down	165335000	209472500
Hydroxysteroid dehydrogenase-like protein 2	<i>Hsd12</i>	1.01	Up	190190000	187676666.7
Hypoxanthine-guanine phosphoribosyltransferase	<i>Hprt1</i>	1.06	Up	12138750000	11473150000
Hypoxia up-regulated protein 1	<i>Hyou1</i>	1.06	Up	2153325000	2036350000
Ig gamma-2A chain C region	<i>Igg-2a</i>	1.06	Down	371045000	394817500
Ig gamma-2B chain C region	<i>Igh-1a</i>	1.05	Down	198845000	208820000
Ig kappa chain C region, A allele	<i>N/A</i>	1.14	Down	202202500	230445000
Importin subunit alpha-5;Importin subunit alpha-5, N-terminally processed;Importin subunit alpha-6	<i>Kpna1;Kpna5</i>	1.01	Up	208213333.3	206620000
Importin subunit beta-1	<i>Kpnb1</i>	1.04	Up	3629150000	3477400000
Inactive hydroxysteroid dehydrogenase-like protein 1	<i>Hsd11</i>	1.21	Up	160574750	132510000
Inactive phospholipase C-like protein 1	<i>Plc1</i>	1.02	Up	151170000	147830000
Inosine triphosphate pyrophosphatase	<i>Itpa</i>	1.14	Down	654085000	748060000
Inosine-5-monophosphate dehydrogenase 1	<i>Impdh1</i>	1.15	Up	8673825000	7574475000
Inosine-5-monophosphate dehydrogenase 2	<i>Impdh2</i>	1.01	Up	615880000	608345000
Inositol hexakisphosphate and diphosphoinositol-pentakisphosphate kinase 1	<i>Ppip5k1</i>	1.34	Down	51645000	69024000
Inositol monophosphatase 1	<i>Impa1</i>	1.01	Up	3246100000	3211875000
Inositol polyphosphate 5-phosphatase OCRL-1	<i>Ocrl</i>	1.21	Down	57134500	68954000
Inositol-3-phosphate synthase 1	<i>Isyna1</i>	1.03	Up	99229000	96346000
Insulin-degrading enzyme	<i>Ide</i>	1.01	Down	337337500	339600000
Integral membrane protein 2B;BRI2, membrane form;BRI2 intracellular domain;BRI2C, soluble form;Bri23 peptide	<i>Itm2b</i>	1.40	Down	71998000	101122500
Integral membrane protein 2C;CT-BRI3	<i>Itm2c</i>	1.27	Up	124291333.3	98063000
Integrin beta-1	<i>Itgb1</i>	1.16	Up	341730000	295642500
Integrin-linked kinase-associated serine/threonine phosphatase 2C	<i>Ilkap</i>	1.08	Up	233235000	215125000
Integrin-linked protein kinase	<i>Ilk</i>	1.18	Down	78921500	92857750
Inter-alpha-trypsin inhibitor heavy chain H3	<i>Itih3</i>	1.10	Down	42086500	46236000
Interferon regulatory factor 2-binding protein-like	<i>Irf2bpl</i>	1.08	Down	209100000	225486666.7
Interferon-inducible double-stranded RNA-dependent protein kinase activator A	<i>Prkra</i>	1.13	Down	317282500	359360000
Interleukin enhancer-binding factor 2	<i>Ilf2</i>	1.05	Up	2212200000	2113300000
Interleukin enhancer-binding factor 3	<i>Ilf3</i>	1.06	Up	2496450000	2353675000
Interphotoreceptor matrix proteoglycan 1	<i>Impg1</i>	1.25	Up	1269950000	1015350000
Interphotoreceptor matrix proteoglycan 2	<i>Impg2</i>	1.33	Up	1663300000	1255125000
Intersectin-1	<i>Its1</i>	1.17	Up	259090000	220515000
IQ motif and SEC7 domain-containing protein 3	<i>Iqsec3</i>	1.00	Down	432840000	433207500
Isoamyl acetate-hydrolyzing esterase 1 homolog	<i>Iah1</i>	1.14	Down	423542500	482540000
Isoaspartyl peptidase/L-asparaginase;Isoaspartyl peptidase/L-asparaginase alpha chain;Isoaspartyl peptidase/L-asparaginase beta chain	<i>Asrgl1</i>	1.10	Up	998547500	907345000
Isochorismatase domain-containing protein 1	<i>Isoc1</i>	1.11	Up	436585000	394977500
Isocitrate dehydrogenase [NAD] subunit alpha, mitochondrial	<i>Idh3a</i>	1.07	Up	9318050000	8738100000
Isocitrate dehydrogenase [NAD] subunit beta, mitochondrial	<i>Idh3B</i>	1.03	Up	5476250000	5292225000

Isocitrate dehydrogenase [NAD] subunit gamma 1, mitochondrial	<i>Idh3g</i>	1.00	Down	2963100000	2970175000
Isocitrate dehydrogenase [NADP] cytoplasmic	<i>Idh1</i>	1.00	Up	2210150000	2202825000
Isocitrate dehydrogenase [NADP], mitochondrial	<i>Idh2</i>	1.09	Up	2271350000	2085850000
Isovaleryl-CoA dehydrogenase, mitochondrial	<i>Ivd</i>	1.19	Down	1001740000	1191650000
IST1 homolog	<i>Ist1</i>	1.17	Up	233097500	198567500
Joubertin	<i>Ahi1</i>	1.19	Down	127176666.7	151715000
Junction plakoglobin	<i>Jup</i>	1.10	Up	84295000	76313750
Kelch-like protein 22	<i>Klhl22</i>	1.40	Down	26188000	36730000
Keratin, type I cytoskeletal 18	<i>Krt18</i>	1.33	Up	212460000	159785000
Keratin, type II cytoskeletal 8	<i>Krt8</i>	1.08	Down	153700000	166310000
Ketimine reductase mu-crystallin	<i>Crym</i>	1.13	Up	24126750000	21444750000
KH domain-containing, RNA-binding, signal transduction-associated protein 1	<i>Khdrbs1</i>	1.30	Down	1402775000	1824300000
KH domain-containing, RNA-binding, signal transduction-associated protein 3	<i>Khdrbs3</i>	1.07	Down	215170000	229326666.7
KIF1-binding protein	<i>Kbp</i>	1.09	Down	80833000	88035000
Kinase D-interacting substrate of 220 kDa	<i>Kidins220</i>	1.16	Up	17879500	15479000
Kinesin heavy chain isoform 5A	<i>Kif5a</i>	1.01	Down	220686666.7	223190000
Kinesin light chain 1	<i>Klc1</i>	1.01	Up	556360000	548912500
Kinesin-1 heavy chain	<i>Kif5b</i>	1.03	Down	1391275000	1434400000
Kinesin-like protein KIF1B	<i>Kif1b</i>	1.03	Down	314005000	324820000
Kinesin-like protein KIF2A	<i>Kif2a</i>	1.02	Up	647130000	632467500
Kinesin-like protein KIF3C	<i>Kif3c</i>	1.30	Up	114440000	87719000
Kynurenine/alpha-aminoadipate aminotransferase, mitochondrial	<i>Aadat</i>	1.18	Up	544120000	462027500
Kynurenine--oxoglutarate transaminase 1, mitochondrial	<i>Ccbl1</i>	1.01	Down	206425000	208560000
Lactadherin	<i>Mfge8</i>	1.07	Down	272680000	290785000
Lactoylglutathione lyase	<i>Glo1</i>	1.01	Down	8229225000	8296350000
Lambda-crystallin homolog	<i>Cryl1</i>	1.07	Down	152153333.3	162827500
Lamina-associated polypeptide 2, isoform beta	<i>Tmpo</i>	1.40	Down	1405150000	1960950000
Lamin-B1	<i>Lmnb1</i>	3.42	Down	1433960000	4896975000
LanC-like protein 1	<i>Lancl1</i>	1.03	Down	2034250000	2104425000
La-related protein 7	<i>Larp7</i>	1.24	Down	90351000	112020000
Large neutral amino acids transporter small subunit 1	<i>Slc7a5</i>	5.14	Up	132143000	25704000
Large proline-rich protein BAG6	<i>Bag6</i>	1.12	Up	665765000	592242500
Latrophilin-3	<i>Lphn3</i>	1.08	Up	171890000	158825000
LDLR chaperone MESD	<i>Mesdc2</i>	1.02	Up	119337333.3	116795000
Lethal(2) giant larvae protein homolog 1	<i>Llg1</i>	1.20	Up	171165000	142760000
Leucine carboxyl methyltransferase 1	<i>Lcmt1</i>	1.02	Up	170415000	166320000
Leucine zipper transcription factor-like protein 1	<i>Lztfl1</i>	1.10	Up	294555000	267435000
Leucine-rich PPR motif-containing protein, mitochondrial	<i>Lrpprc</i>	1.10	Up	2255325000	2048925000
Leucine-rich repeat-containing protein 15	<i>Lrrc15</i>	1.14	Up	141670000	124190000
Leucine-rich repeat-containing protein 4B	<i>Lrrc4b</i>	1.17	Down	85375500	99688500
Leucine-rich repeat-containing protein 57	<i>Lrrc57</i>	1.12	Down	133135000	149115000
Leucine-rich repeat-containing protein 59	<i>Lrrc59</i>	1.26	Up	1357850000	1077587500
Leukocyte surface antigen CD47	<i>Cd47</i>	1.00	Up	400025000	398810000
Leukotriene A-4 hydrolase	<i>Lta4h</i>	1.04	Up	3109375000	2988400000
LIM and SH3 domain protein 1	<i>Lasp1</i>	1.46	Down	931942500	1362250000
Limbic system-associated membrane protein	<i>Lsamp</i>	1.09	Down	1787800000	1956500000
Lipid phosphate phosphohydrolase 3	<i>Ppap2b</i>	1.31	Up	121150000	92748000
Lipoma HMGIC fusion partner-like protein 4	<i>Lhfp14</i>	1.05	Up	34271500	32633250
Liprin-alpha-3	<i>Ppfia3</i>	1.50	Up	132940000	88788000

L-lactate dehydrogenase A chain	<i>Ldha</i>	1.01	Down	1.30363E+11	1.31398E+11
L-lactate dehydrogenase B chain	<i>Ldhb</i>	1.08	Down	16327500000	17644500000
Lon protease homolog, mitochondrial	<i>Lonp1</i>	1.02	Down	837132500	853117500
Long-chain fatty acid transport protein 1	<i>Slc27a1</i>	1.00	Down	1101237500	1104200000
Long-chain specific acyl-CoA dehydrogenase, mitochondrial	<i>Acadl</i>	1.10	Up	115816333.3	105346333.3
Long-chain-fatty-acid--CoA ligase 1	<i>Acs11</i>	1.07	Down	1378400000	1473200000
Long-chain-fatty-acid--CoA ligase 3	<i>Acs13</i>	1.15	Down	811712500	934005000
Long-chain-fatty-acid--CoA ligase 6	<i>Acs16</i>	1.02	Up	5044075000	4948350000
Low molecular weight phosphotyrosine protein phosphatase	<i>Acp1</i>	1.08	Down	837690000	904312500
Lupus La protein homolog	<i>Ssb</i>	1.06	Up	2068575000	1944650000
Lysophosphatidylcholine acyltransferase 1	<i>Lpcat1</i>	1.05	Down	511292500	534890000
Lysosomal alpha-glucosidase	<i>Gaa</i>	1.35	Down	77176000	104137333.3
Lysosome membrane protein 2	<i>Scarb2</i>	1.48	Down	120363666.7	177835000
Lysosome-associated membrane glycoprotein 1	<i>Lamp1</i>	1.19	Down	212067500	253380000
Lysosome-associated membrane glycoprotein 5	<i>Lamp5</i>	1.49	Up	129775000	87132000
m7GpppX diphosphatase	<i>Dcps</i>	1.08	Up	1506775000	1397800000
Macrophage migration inhibitory factor	<i>Mif</i>	1.03	Down	6875150000	7047475000
MAGUK p55 subfamily member 4	<i>Mpp4</i>	1.14	Down	434482500	495912500
MAGUK p55 subfamily member 7	<i>Mpp7</i>	1.20	Down	56831000	68116000
Major prion protein	<i>Prnp</i>	1.01	Up	685240000	675465000
Malate dehydrogenase, cytoplasmic	<i>Mdh1</i>	1.10	Up	35442750000	32366500000
Malate dehydrogenase, mitochondrial	<i>Mdh2</i>	1.08	Up	40608750000	37482000000
Malectin	<i>Mlec</i>	1.05	Up	180687500	172533333.3
Maleylacetoacetate isomerase	<i>Gstz1</i>	1.10	Down	96771000	106100666.7
Malignant T-cell-amplified sequence 1	<i>Mcts1</i>	1.08	Up	165933333.3	152983333.3
Mammalian ependymin-related protein 1	<i>Epd1</i>	1.34	Down	77927000	104124666.7
Mannose-6-phosphate isomerase	<i>Mpi</i>	1.11	Up	1217700000	1101542500
Mannosyl-oligosaccharide glucosidase	<i>Mogs</i>	1.16	Down	113371000	131737500
MAP kinase-activating death domain protein	<i>Madd</i>	1.01	Up	648107500	642735000
MAP/microtubule affinity-regulating kinase 3	<i>Mark3</i>	1.04	Down	93509000	96933750
Matrin-3	<i>Matr3</i>	1.21	Down	7945775000	9591100000
Medium-chain specific acyl-CoA dehydrogenase, mitochondrial	<i>Acadm</i>	1.02	Up	1112397500	1091085000
Medium-wave-sensitive opsin 1	<i>Opn1mw</i>	1.20	Up	208880000	174285000
Membrane-associated guanylate kinase, WW and PDZ domain-containing protein 1	<i>Magi1</i>	1.05	Up	60856666.67	58208000
Membrane-associated guanylate kinase, WW and PDZ domain-containing protein 3	<i>Magi3</i>	1.07	Up	64627500	60290666.67
Membrane-associated phosphatidylinositol transfer protein 1	<i>Pitpnm1</i>	1.03	Up	426175000	412740000
Membrane-associated progesterone receptor component 1	<i>Pgrmc1</i>	1.01	Down	1613775000	1628825000
Membrane-associated progesterone receptor component 2	<i>Pgrmc2</i>	1.17	Up	431296666.7	370033333.3
Mesencephalic astrocyte-derived neurotrophic factor	<i>Manf</i>	1.16	Down	222286666.7	257200000
Metabotropic glutamate receptor 2	<i>Grm2</i>	1.03	Up	217622500	212275000
Metastasis-associated protein MTA1	<i>Mta1</i>	1.04	Up	132120000	127306666.7
Methionine adenosyltransferase 2 subunit beta	<i>Mat2b</i>	1.24	Up	431447500	347255000
Methionine aminopeptidase 2	<i>Metap2</i>	1.50	Down	152010000	228252500
Methyl-CpG-binding protein 2	<i>Mecp2</i>	1.84	Down	217625000	399940000
Methylcrotonoyl-CoA carboxylase subunit alpha, mitochondrial	<i>Mccc1</i>	1.01	Down	109674250	111313333.3
Methylmalonate-semialdehyde dehydrogenase [acylating], mitochondrial	<i>Aldh6a1</i>	1.02	Up	503292500	494407500

Methylosome protein 50	<i>Wdr77</i>	1.05	Down	264726666.7	279057500
Methylthioribose-1-phosphate isomerase	<i>Mri1</i>	1.20	Up	416187500	346792500
Mevalonate kinase	<i>Mvk</i>	1.17	Down	43639500	51040666.67
MICOS complex subunit Mic25	<i>Chchd6</i>	1.14	Down	374015000	424927500
MICOS complex subunit Mic60	<i>Immt</i>	1.00	Down	2662175000	2668200000
Microsomal glutathione S-transferase 1	<i>Mgst1</i>	1.13	Down	95067000	107685000
Microtubule-actin cross-linking factor 1	<i>Macf1</i>	1.01	Down	937972500	947847500
Microtubule-associated protein 1A;MAP1A heavy chain;MAP1 light chain LC2	<i>Map1a</i>	1.01	Down	2047050000	2073925000
Microtubule-associated protein 1B;MAP1B heavy chain;MAP1 light chain LC1	<i>Map1b</i>	1.01	Up	12824500000	12741250000
Microtubule-associated protein 1S;MAP1S heavy chain;MAP1S light chain	<i>Map1s</i>	1.04	Up	428992500	412165000
Microtubule-associated protein 2	<i>Map2</i>	1.29	Down	4308975000	5560100000
Microtubule-associated protein 4	<i>Map4</i>	1.24	Down	2913675000	3619925000
Microtubule-associated protein 6	<i>Map6</i>	1.14	Down	3230575000	3688300000
Microtubule-associated protein RP/EB family member 1	<i>Mapre1</i>	1.03	Down	569165000	585057500
Microtubule-associated protein RP/EB family member 2	<i>Mapre2</i>	1.44	Down	682330000	980785000
Microtubule-associated protein RP/EB family member 3	<i>Mapre3</i>	1.06	Down	2777875000	2941950000
Microtubule-associated protein tau	<i>Mapt</i>	1.19	Down	2321250000	2772675000
Microtubule-associated proteins 1A/1B light chain 3A	<i>Map1lc3a</i>	1.02	Up	1513850000	1480325000
Microtubule-associated proteins 1A/1B light chain 3B	<i>Map1lc3b</i>	1.07	Down	669770000	718927500
Misshapen-like kinase 1	<i>Mink1</i>	1.17	Down	97424500	113510000
Mitochondrial 2-oxoglutarate/malate carrier protein	<i>Slc25a11</i>	1.27	Up	1342925000	1055355000
Mitochondrial amidoxime reducing component 2	<i>Marc-2</i>	1.11	Down	113613333.3	126490000
Mitochondrial antiviral-signaling protein	<i>Mavs</i>	1.38	Down	84098000	115773333.3
Mitochondrial carnitine/acylcarnitine carrier protein	<i>Slc25a20</i>	1.37	Up	238892500	174215000
Mitochondrial fission 1 protein	<i>Fis1</i>	1.23	Up	951905000	771585000
Mitochondrial glutamate carrier 2	<i>Slc25a18</i>	1.05	Up	1033696667	980795000
Mitochondrial import inner membrane translocase subunit Tim13	<i>Timm13</i>	1.33	Up	183543333.3	138323333.3
Mitochondrial import inner membrane translocase subunit TIM44	<i>Timm44</i>	1.16	Up	223146666.7	192712500
Mitochondrial import inner membrane translocase subunit Tim9	<i>Timm9</i>	1.22	Down	171650000	209560000
Mitochondrial import receptor subunit TOM22 homolog	<i>Tomm22</i>	1.02	Up	467410000	456870000
Mitochondrial import receptor subunit TOM34	<i>Tomm34</i>	1.06	Down	81306666.67	86036333.33
Mitochondrial import receptor subunit TOM40 homolog	<i>Tomm40</i>	1.46	Up	297047500	202850000
Mitochondrial import receptor subunit TOM70	<i>Tomm70a</i>	1.04	Down	2242750000	2325525000
Mitochondrial peptide methionine sulfoxide reductase	<i>Msra</i>	1.18	Up	254613333.3	215870000
Mitochondrial pyruvate carrier 1	<i>Mpc1</i>	2.28	Up	796500000	348980000
Mitochondrial pyruvate carrier 2	<i>Mpc2</i>	1.02	Down	230847500	234632500
Mitochondrial Rho GTPase 2	<i>Rhot2</i>	1.15	Up	1319100000	1143925000
Mitofusin-2	<i>Mfn2</i>	1.13	Up	190307500	168152500
Mitogen-activated protein kinase 1	<i>Mapk1</i>	1.01	Up	4056425000	3998650000
Mitogen-activated protein kinase 3	<i>Mapk3</i>	1.00	Up	1296077500	1292500000
Mitogen-activated protein kinase 9;Mitogen-activated protein kinase 8	<i>Mapk9;Mapk8</i>	1.14	Down	192187500	218172500
MOB-like protein phocein	<i>Mob4</i>	1.02	Up	109010000	107277666.7
Moesin	<i>Msn</i>	1.02	Down	3197925000	3259375000

Monoacylglycerol lipase ABHD12	<i>Abhd12</i>	1.00	Up	541587500	540372500
Monoacylglycerol lipase ABHD6	<i>Abhd6</i>	1.31	Up	190540000	145712500
Monocarboxylate transporter 1	<i>Slc16a1</i>	1.46	Up	930032500	635025000
Monoglyceride lipase	<i>Mgll</i>	1.05	Up	1162837500	1106025000
mRNA cap guanine-N7 methyltransferase	<i>Rnmt</i>	1.12	Up	637070000	566705000
Multidrug resistance protein 1;Multidrug resistance protein 3	<i>Abcb1;Abcb4</i>	1.03	Down	45812000	47024000
Multifunctional protein ADE2;Phosphoribosylaminoimidazole-succinocarboxamide synthase;Phosphoribosylaminoimidazole carboxylase	<i>Paics</i>	1.12	Up	632227500	566955000
Murinoglobulin-1	<i>Mug1</i>	1.26	Up	101826000	80973000
Muscleblind-like protein 2	<i>Mbnl2</i>	1.05	Up	225252500	213955000
Myb-binding protein 1A	<i>Mybbp1a</i>	1.07	Up	257660000	241562500
Myc box-dependent-interacting protein 1	<i>Bin1</i>	1.07	Up	2433775000	2279275000
Mycophenolic acid acyl-glucuronide esterase, mitochondrial	<i>Abhd10</i>	1.04	Down	601600000	627205000
Myocyte-specific enhancer factor 2D	<i>Mef2d</i>	1.16	Down	144192500	167382500
Myosin light polypeptide 6	<i>Myl6</i>	1.14	Down	537167500	611620000
Myosin regulatory light chain 12B;Myosin regulatory light chain RLC-A;Myosin regulatory light polypeptide 9	<i>Myl12b;Rlc-a;Myl9</i>	1.14	Down	269240000	308247500
Myosin-10	<i>Myh10</i>	1.02	Up	968467500	949935000
Myosin-9	<i>Myh9</i>	1.06	Up	334707500	316377500
Myotrophin	<i>Mtpn</i>	1.02	Down	503385000	512265000
Myristoylated alanine-rich C-kinase substrate	<i>Marcks</i>	2.47	Up	1760595000	713300000
N(G),N(G)-dimethylarginine dimethylaminohydrolase 1	<i>Ddah1</i>	1.09	Up	1622050000	1481400000
N(G),N(G)-dimethylarginine dimethylaminohydrolase 2	<i>Ddah2</i>	1.08	Up	5913325000	5498725000
Na(+)/H(+) exchange regulatory cofactor NHE-RF1	<i>Slc9a3r1</i>	1.00	Up	458587500	457092500
N-acetyl-D-glucosamine kinase	<i>Nagk</i>	1.20	Down	48486500	58356333.33
N-acetylgalactosamine kinase	<i>Galk2</i>	1.01	Down	98739000	99937000
N-acylneuramate cytidyltransferase	<i>Cmas</i>	1.14	Down	515305000	589610000
NAD kinase 2, mitochondrial	<i>Nadk2</i>	1.04	Down	385832500	402717500
NAD(P)H dehydrogenase [quinone] 1	<i>Nqo1</i>	1.48	Down	53623500	79525500
NAD(P)H-hydrate epimerase	<i>Apoa1bp</i>	1.02	Down	855900000	872240000
NAD-dependent protein deacetylase sirtuin-2	<i>Sirt2</i>	1.01	Down	915137500	922140000
NAD-dependent protein deacylase sirtuin-5, mitochondrial	<i>Sirt5</i>	1.88	Up	172790000	91968666.67
NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 10, mitochondrial	<i>Ndufa10</i>	1.11	Down	3027750000	3373000000
NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 11	<i>Ndufa11</i>	1.42	Down	378237500	537390000
NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 5	<i>Ndufa5</i>	1.26	Up	802457500	638547500
NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 9, mitochondrial	<i>Ndufa9</i>	1.03	Down	2073675000	2133925000
NADH dehydrogenase [ubiquinone] flavoprotein 2, mitochondrial	<i>Ndufv2</i>	1.05	Up	876885000	832072500
NADH dehydrogenase [ubiquinone] iron-sulfur protein 2, mitochondrial	<i>Ndufs2</i>	1.00	Down	3406550000	3416850000
NADH dehydrogenase [ubiquinone] iron-sulfur protein 4, mitochondrial	<i>Ndufs4</i>	1.03	Up	710217500	688227500
NADH dehydrogenase [ubiquinone] iron-sulfur protein 6, mitochondrial	<i>Ndufs6</i>	1.39	Down	588817500	815757500
NADH-cytochrome b5 reductase 1	<i>Cyb5r1</i>	1.02	Up	919035000	902275000

NADH-cytochrome b5 reductase 3;NADH-cytochrome b5 reductase 3 membrane-bound form;NADH-cytochrome b5 reductase 3 soluble form	<i>Cyb5r3</i>	1.04	Up	532020000	512635000
NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial	<i>Ndufs1</i>	1.00	Down	8101600000	8134650000
NADH-ubiquinone oxidoreductase chain 1	<i>Mtnd1</i>	1.05	Up	298100000	284315000
NADH-ubiquinone oxidoreductase chain 4	<i>Mtnd4</i>	1.08	Down	525252500	569520000
NADH-ubiquinone oxidoreductase chain 5	<i>Mtnd5</i>	1.01	Up	427002500	424805000
NADPH--cytochrome P450 reductase	<i>Por</i>	1.03	Up	1084940000	1053685000
N-alpha-acetyltransferase 25, NatB auxiliary subunit	<i>Naa25</i>	1.25	Down	42191000	52694000
Nardilysin	<i>Nrd1</i>	1.02	Down	310255000	316890000
Nck-associated protein 1	<i>Nckap1</i>	1.07	Up	1163925000	1084960000
NEDD8	<i>Nedd8</i>	1.11	Up	226593333.3	204710000
NEDD8-activating enzyme E1 catalytic subunit	<i>Uba3</i>	1.08	Up	594137500	550572500
NEDD8-activating enzyme E1 regulatory subunit	<i>Nae1</i>	1.00	Up	467112500	466367500
Neogenin	<i>Neo1</i>	1.48	Up	127860000	86328333.33
Neurabin-2	<i>Ppp1r9b</i>	1.13	Down	80872000	91412333.33
Neural cell adhesion molecule 1	<i>Ncam1</i>	1.05	Up	22134250000	21107500000
Neural cell adhesion molecule L1	<i>L1cam</i>	1.09	Down	275512500	300572500
Neural Wiskott-Aldrich syndrome protein	<i>Wasl</i>	1.14	Up	77079000	67454333.33
Neurexin-2	<i>Nrxn2</i>	1.44	Up	30077000	20940000
Neurexin-3	<i>Nrxn3</i>	1.02	Up	736855000	720675000
Neurocalcin-delta	<i>Ncald</i>	1.12	Down	254200000	285667500
Neurochondrin	<i>Ncdn</i>	1.02	Down	875472500	891115000
Neurofascin	<i>Nfasc</i>	1.01	Down	1757875000	1775750000
Neurofibromin	<i>Nf1</i>	1.47	Down	68270666.67	100527333.3
Neurofilament light polypeptide	<i>Nefl</i>	1.98	Down	545370000	1078150000
Neurofilament medium polypeptide	<i>Nefm</i>	1.20	Down	136570000	163363333.3
Neuroigin-2	<i>Nlgn2</i>	1.03	Down	245640000	252930000
Neuroigin-3	<i>Nlgn3</i>	1.04	Up	275516666.7	263877500
Neurolysin, mitochondrial	<i>Nln</i>	1.44	Up	94494000	65501000
Neuronal calcium sensor 1	<i>Ncs1</i>	1.79	Down	42340000	75598000
Neuronal cell adhesion molecule	<i>Nrcam</i>	1.12	Up	745157500	666162500
Neuronal growth regulator 1	<i>Negr1</i>	1.10	Up	1082662500	982225000
Neuronal membrane glycoprotein M6-a	<i>Gpm6a</i>	1.24	Up	3860850000	3113300000
Neuronal membrane glycoprotein M6-b	<i>Gpm6b</i>	1.21	Up	1238232500	1023492500
Neuronal migration protein doublecortin	<i>Dcx</i>	1.09	Down	185740000	202645000
Neuronal-specific septin-3	<i>Sep--3</i>	1.08	Down	848425000	913747500
Neuron-specific calcium-binding protein hippocalcin	<i>Hpca</i>	1.04	Up	537697500	516410000
Neuroplastin	<i>Nptn</i>	1.02	Down	2485100000	2536950000
Neurotrimin	<i>Ntm</i>	1.06	Down	1164640000	1234250000
Neutral cholesterol ester hydrolase 1	<i>Nceh1</i>	1.04	Up	522795000	500587500
NHP2-like protein 1;NHP2-like protein 1, N-terminally processed	<i>Nhp2l1</i>	1.15	Down	541045000	623755000
Niban-like protein 1	<i>Fam129b</i>	1.25	Up	137886666.7	110150000
Nicalin	<i>Ncln</i>	1.15	Down	148613333.3	171452500
Nicotinamide phosphoribosyltransferase	<i>Nampt</i>	1.01	Down	353320000	355360000
Ninjurin-1	<i>Ninj1</i>	1.11	Up	12808300	11497600
Nischarin	<i>Nisch</i>	1.03	Up	206256666.7	201090000
NLR family member X1	<i>NlrX1</i>	1.13	Up	148370000	131865000
NmrA-like family domain-containing protein 1	<i>Nmral1</i>	1.13	Down	379520000	427590000
Non-histone chromosomal protein HMG-17	<i>Hmgcn2</i>	1.51	Down	316087500	476235000
Non-lysosomal glucosylceramidase	<i>Gba2</i>	1.09	Up	104305000	96024333.33
Non-muscle caldesmon	<i>Cald1</i>	1.25	Down	86457500	108425500
Non-POU domain-containing octamer-binding protein	<i>Nono</i>	1.04	Down	2892200000	3000775000

Non-specific lipid-transfer protein	<i>Scp2</i>	1.03	Down	749987500	773745000
NSFL1 cofactor p47	<i>Nsfl1c</i>	1.08	Up	1115677500	1035252500
N-terminal EF-hand calcium-binding protein 1	<i>Necab1</i>	1.23	Down	48583000	59832666.67
Nuclear cap-binding protein subunit 1	<i>Ncbp1</i>	1.01	Up	644337500	637490000
Nuclear migration protein nudC	<i>Nudc</i>	1.18	Down	878617500	1039625000
Nuclear pore complex protein Nup155	<i>Nup155</i>	1.20	Down	206326666.7	247440000
Nuclear pore complex protein Nup54	<i>Nup54</i>	1.25	Down	89275500	111365000
Nuclear pore complex protein Nup93	<i>Nup93</i>	1.42	Down	141062500	200740000
Nuclear transport factor 2	<i>Nutf2</i>	1.07	Up	772705000	720110000
Nucleobindin-1	<i>Nucb1</i>	1.13	Down	129796666.7	146867500
Nucleolar and coiled-body phosphoprotein 1	<i>Nolc1</i>	1.22	Down	34645333.33	42272333.33
Nucleolar protein 58	<i>Nop58</i>	1.01	Down	289800000	292820000
Nucleolar RNA helicase 2	<i>Ddx21</i>	1.44	Up	184882500	128545000
Nucleolin	<i>Ncl</i>	1.08	Up	6253225000	5775675000
Nucleophosmin	<i>Npm1</i>	1.06	Up	3048100000	2889125000
Nucleoporin NUP53	<i>Nup35</i>	1.84	Down	61615000	113388666.7
Nucleoprotein TPR	<i>Tpr</i>	1.54	Down	393040000	606462500
Nucleoside diphosphate kinase A	<i>Nme1</i>	1.01	Down	7847075000	7895375000
Nucleoside diphosphate kinase B	<i>Nme2</i>	1.04	Up	1252555000	1200225000
Nucleosome assembly protein 1-like 1	<i>Nap1l1</i>	1.10	Up	1020265000	929487500
Nucleosome assembly protein 1-like 4	<i>Nap1l4</i>	1.02	Down	746545000	762087500
NudC domain-containing protein 2	<i>Nudcd2</i>	2.07	Up	85053333.33	41075000
O-acetyl-ADP-ribose deacetylase MACROD1	<i>Macrold1</i>	1.15	Up	245497500	213795000
Obg-like ATPase 1	<i>Ola1</i>	1.14	Up	1292010000	1137985000
OCIA domain-containing protein 1	<i>Ociad1</i>	1.08	Down	242795000	261737500
Omega-amidase NIT2	<i>Nit2</i>	1.09	Down	549477500	598920000
Opioid growth factor receptor	<i>Ogfr</i>	1.32	Down	39192000	51731000
Optineurin	<i>Optn</i>	1.21	Down	57419000	69396333.33
Ornithine aminotransferase, mitochondrial	<i>Oat</i>	1.01	Up	2432300000	2409175000
Osteoclast-stimulating factor 1	<i>Ostf1</i>	1.13	Down	34530500	38914000
OX-2 membrane glycoprotein	<i>Cd200</i>	1.04	Down	497602500	516742500
Oxidation resistance protein 1	<i>Oxr1</i>	1.10	Up	1351450000	1229575000
Oxygen-dependent coproporphyrinogen-III oxidase, mitochondrial	<i>Cpox</i>	1.05	Up	179945000	171033333.3
Oxysterol-binding protein-related protein 1	<i>Osbpl1a</i>	1.29	Up	196576666.7	152165000
Palmitoyl-protein thioesterase 1	<i>Ppt1</i>	1.05	Up	1171407500	1112425000
Pantothenate kinase 4	<i>Pank4</i>	1.16	Up	223960000	193767500
Parafibromin	<i>Cdc73</i>	1.23	Down	84347000	104102000
Paralemmin-1	<i>Palm</i>	1.20	Down	508286666.7	609970000
Paraspeckle component 1	<i>Pspc1</i>	1.02	Up	1464525000	1441975000
Parvalbumin alpha	<i>Pvalb</i>	1.26	Down	951177500	1196862500
Paxillin	<i>Pxn</i>	1.08	Up	25879000	23907000
PC4 and SFRS1-interacting protein	<i>Psip1</i>	1.07	Down	1739625000	1854550000
PDZ and LIM domain protein 5	<i>Pdlim5</i>	1.13	Down	275865000	311052500
PDZ domain-containing protein GIPC1	<i>Gipc1</i>	1.09	Down	56194000	61357666.67
Peflin	<i>Pef1</i>	1.10	Up	244060000	222200000
Peptidyl-prolyl cis-trans isomerase A;Peptidyl-prolyl cis-trans isomerase A, N-terminally processed	<i>Ppia</i>	1.04	Up	39240500000	37766250000
Peptidyl-prolyl cis-trans isomerase B	<i>Ppib</i>	1.02	Down	2237875000	2274025000
Peptidyl-prolyl cis-trans isomerase D	<i>Ppid</i>	1.01	Up	2376800000	2349775000
Peptidyl-prolyl cis-trans isomerase F, mitochondrial	<i>Ppif</i>	1.68	Down	49242000	82583000
Peptidyl-prolyl cis-trans isomerase FKBP1A	<i>Fkbp1a</i>	1.15	Up	889387500	771187500
Peptidyl-prolyl cis-trans isomerase FKBP4;Peptidyl-prolyl cis-trans isomerase FKBP4, N-terminally processed	<i>Fkbp4</i>	1.03	Down	2177175000	2239400000
Peptidyl-prolyl cis-trans isomerase FKBP8	<i>Fkbp8</i>	1.43	Up	366880000	255950000

Peripheral plasma membrane protein CASK	<i>Cask</i>	1.04	Down	807730000	838217500
Peripherin-2	<i>Prph2</i>	1.11	Up	4867375000	4386950000
Peroxiredoxin-1	<i>Prdx1</i>	1.04	Up	10496625000	10096825000
Peroxiredoxin-2	<i>Prdx2</i>	1.05	Up	15367500000	14621000000
Peroxiredoxin-4	<i>Prdx4</i>	1.02	Down	1665866667	1701650000
Peroxiredoxin-5, mitochondrial	<i>Prdx5</i>	1.07	Up	6655500000	6232075000
Peroxiredoxin-6	<i>Prdx6</i>	1.09	Up	4013600000	3688525000
Peroxisomal biogenesis factor 19	<i>Pex19</i>	1.74	Up	42736000	24579000
Peroxisomal carnitine O-octanoyltransferase	<i>Crot</i>	1.02	Up	90828000	88717000
Peroxisomal membrane protein PEX14	<i>Pex14</i>	1.64	Up	101900000	62250000
Peroxisomal multifunctional enzyme type 2;(3R)-hydroxyacyl-CoA dehydrogenase;Enoyl-CoA hydratase 2	<i>Hsd17b4</i>	1.02	Down	926407500	943955000
PHD finger-like domain-containing protein 5A	<i>Phf5a</i>	1.23	Up	273633333.3	221690000
Phenylalanine--tRNA ligase alpha subunit	<i>Farsa</i>	1.12	Up	520910000	464580000
Phosducin	<i>Pdc</i>	1.07	Down	10900025000	11700500000
Phosphate carrier protein, mitochondrial	<i>Slc25a3</i>	1.09	Up	18515000000	17063250000
Phosphatidate cytidylyltransferase 1	<i>Cds1</i>	1.12	Up	983665000	877062500
Phosphatidate cytidylyltransferase 2	<i>Cds2</i>	1.34	Up	1115240000	834277500
Phosphatidylethanolamine-binding protein 1;Hippocampal cholinergic neurostimulating peptide	<i>Pebp1</i>	1.03	Up	23893000000	23255750000
Phosphatidylinositide phosphatase SAC1	<i>Sacm1l</i>	1.09	Up	881262500	811245000
Phosphatidylinositol 4-kinase alpha	<i>Pi4ka</i>	1.01	Up	832437500	822437500
Phosphatidylinositol 4-phosphate 5-kinase type-1 gamma	<i>Pip5k1c</i>	1.04	Up	518985000	500840000
Phosphatidylinositol 5-phosphate 4-kinase type-2 alpha	<i>Pip4k2a</i>	1.46	Down	222002500	324627500
Phosphatidylinositol 5-phosphate 4-kinase type-2 beta	<i>Pip4k2b</i>	1.01	Down	302567500	306692500
Phosphatidylinositol 5-phosphate 4-kinase type-2 gamma	<i>Pip4k2c</i>	1.24	Down	110366000	137370000
Phosphatidylinositol transfer protein alpha isoform	<i>Pitpna</i>	1.04	Down	3247025000	3376375000
Phosphatidylinositol transfer protein beta isoform	<i>Pitpnb</i>	1.20	Up	188926666.7	157795000
Phosphatidylinositol-binding clathrin assembly protein	<i>Picalm</i>	1.05	Down	259580000	272107500
Phosphatidylserine synthase 2	<i>Ptdss2</i>	1.31	Up	179525000	136620000
Phosphofurin acidic cluster sorting protein 1	<i>Pacs1</i>	1.07	Up	650940000	608555000
Phosphoglucomutase-1	<i>Pgm1</i>	1.05	Up	4730050000	4490350000
Phosphoglycerate kinase 1	<i>Pgk1</i>	1.03	Up	66919750000	64806750000
Phosphoglycerate mutase 1	<i>Pgam1</i>	1.02	Down	46590250000	47476250000
Phospholipase A-2-activating protein	<i>Plaa</i>	1.06	Up	516702500	489265000
Phospholipase D3	<i>Pld3</i>	1.03	Up	194367500	189055000
Phospholipid hydroperoxide glutathione peroxidase, mitochondrial;Phospholipid hydroperoxide glutathione peroxidase, nuclear	<i>Gpx4</i>	1.99	Up	1290360000	647730000
Phospholysine phosphohistidine inorganic pyrophosphate phosphatase	<i>Lhpp</i>	1.00	Up	162775000	162226666.7
Phosphoribosyl pyrophosphate synthase-associated protein 1	<i>Prpsap1</i>	1.24	Up	227710000	184147500
Phosphoribosyl pyrophosphate synthase-associated protein 2	<i>Prpsap2</i>	1.10	Up	1204050000	1094590000
Phosphoserine phosphatase	<i>Psph</i>	1.03	Up	409507500	396000000
Phytanoyl-CoA hydroxylase-interacting protein-like	<i>Phyhipl</i>	1.01	Down	1120167500	1136250000
Pirin	<i>Pir</i>	1.14	Down	367377500	419270000

Plasma membrane calcium-transporting ATPase 1	<i>Atp2b1</i>	1.06	Down	7239875000	7661550000
Plasma membrane calcium-transporting ATPase 2	<i>Atp2b2</i>	1.33	Up	682900000	512100000
Plasma membrane calcium-transporting ATPase 3	<i>Atp2b3</i>	1.05	Down	205330000	215202500
Plasma membrane calcium-transporting ATPase 4	<i>Atp2b4</i>	1.23	Up	228602500	185826666.7
Plasminogen activator inhibitor 1 RNA-binding protein;Plasminogen activator inhibitor 1 RNA-binding protein, N-terminally processed	<i>Serbp1</i>	1.49	Up	481907500	322722500
Plastin-3	<i>Pls3</i>	1.03	Up	351340000	342590000
Platelet-activating factor acetylhydrolase IB subunit alpha	<i>Pafah1b1</i>	1.04	Down	2787575000	2896425000
Platelet-activating factor acetylhydrolase IB subunit beta	<i>Pafah1b2</i>	1.11	Up	2671325000	2415375000
Platelet-activating factor acetylhydrolase IB subunit gamma	<i>Pafah1b3</i>	1.06	Down	1082735000	1145700000
Plectin	<i>Plec</i>	1.71	Down	554365000	949052500
Pleiotropic regulator 1	<i>Plrg1</i>	1.25	Down	225547500	282270000
Podocalyxin	<i>Podxl</i>	2.08	Up	119540500	57478000
Poly [ADP-ribose] polymerase 1	<i>Parp1</i>	1.06	Up	104040750	97950000
Poly(U)-binding-splicing factor PUF60	<i>Puf60</i>	1.01	Up	590407500	582837500
Polyadenylate-binding protein 1	<i>Pabpc1</i>	1.02	Up	4488575000	4415600000
Polyamine-modulated factor 1-binding protein 1	<i>Pmfbp1</i>	2.49	Up	755560000	302990000
Polymerase I and transcript release factor	<i>Ptrf</i>	1.08	Down	227135000	246232500
Polypyrimidine tract-binding protein 1	<i>Ptbp1</i>	1.10	Down	480707500	526535000
Polypyrimidine tract-binding protein 2	<i>Ptbp2</i>	1.05	Down	2037625000	2130300000
Potassium voltage-gated channel subfamily B member 1	<i>Kcnb1</i>	1.05	Up	419220000	400907500
Potassium voltage-gated channel subfamily C member 1	<i>Kcnc1</i>	1.29	Up	84663000	65568000
Potassium voltage-gated channel subfamily D member 3;Potassium voltage-gated channel subfamily D member 2	<i>Kcnd3;Kcnd2</i>	1.37	Up	38383000	28107000
Potassium/sodium hyperpolarization-activated cyclic nucleotide-gated channel 1;Potassium/sodium hyperpolarization-activated cyclic nucleotide-gated channel 2	<i>Hcn1;Hcn2</i>	1.05	Down	93197000	97808666.67
PRA1 family protein 3	<i>Arl6ip5</i>	1.08	Up	665080000	613415000
Prefoldin subunit 2	<i>Pfdn2</i>	1.05	Down	230910000	243370000
Prelamin-A/C;Lamin-A/C	<i>Lmna</i>	3.58	Down	341547500	1222425000
Pre-mRNA-processing factor 19	<i>Prpf19</i>	1.09	Down	1945900000	2124950000
Pre-mRNA-processing factor 6	<i>Prpf6</i>	1.25	Down	237737500	296080000
Prenylcysteine oxidase	<i>Pcyox1</i>	1.01	Down	1174602500	1180575000
Probable 2-oxoglutarate dehydrogenase E1 component DHKTD1, mitochondrial	<i>Dhtkd1</i>	1.51	Down	35048500	52998000
Probable ATP-dependent RNA helicase DDX46	<i>Ddx46</i>	1.19	Up	86621000	73016500
Probable tRNA N6-adenosine threonylcarbamoyltransferase	<i>Osgep</i>	1.05	Up	821992500	784485000
Profilin-1	<i>Pfn1</i>	1.23	Down	3765925000	4632450000
Profilin-2	<i>Pfn2</i>	1.00	Up	1105150000	1103732500
Programmed cell death 6-interacting protein	<i>Pdcd6ip</i>	1.01	Up	1154432500	1142300000
Programmed cell death protein 10	<i>Pdcd10</i>	1.08	Down	155300000	168080000
Prohibitin	<i>Phb</i>	1.09	Up	3456250000	3163800000
Prohibitin-2	<i>Phb2</i>	1.16	Up	4155075000	3568350000
Proliferation-associated protein 2G4	<i>Pa2g4</i>	1.02	Up	2475900000	2415575000
Prolyl endopeptidase	<i>Prep</i>	1.01	Down	534547500	541962500
Prolyl endopeptidase-like	<i>Prepl</i>	1.08	Down	488957500	529537500

Propionyl-CoA carboxylase alpha chain, mitochondrial	<i>Pcca</i>	1.10	Down	94450000	104328500
Prosaposin receptor GPR37	<i>Gpr37</i>	2.10	Up	671413333.3	319330000
Prostaglandin E synthase 3	<i>Ptges3</i>	1.25	Up	2511575000	2014825000
Prostaglandin reductase 1	<i>Ptgr1</i>	1.08	Up	2044300000	1897025000
Prostaglandin reductase 2	<i>Ptgr2</i>	1.12	Down	922227500	1036045000
Prostamide/prostaglandin F synthase	<i>Fam213b</i>	1.00	Down	136593333.3	136870000
Proteasomal ubiquitin receptor ADRM1	<i>Adrm1</i>	1.12	Up	206947500	184720000
Proteasome activator complex subunit 1	<i>Psme1</i>	1.02	Up	676907500	662377500
Proteasome inhibitor PI31 subunit	<i>Psmf1</i>	1.17	Down	148395000	173516666.7
Proteasome subunit alpha type-1	<i>Psma1</i>	1.23	Up	1759800000	1427575000
Proteasome subunit alpha type-2	<i>Psma2</i>	1.18	Up	1043697500	884835000
Proteasome subunit alpha type-3	<i>Psma3</i>	1.04	Up	1107260000	1060402500
Proteasome subunit alpha type-4	<i>Psma4</i>	1.14	Up	1438800000	1266175000
Proteasome subunit alpha type-5	<i>Psma5</i>	1.06	Down	1589950000	1678100000
Proteasome subunit alpha type-6	<i>Psma6</i>	1.12	Up	2515050000	2253375000
Proteasome subunit alpha type-7	<i>Psma7</i>	1.01	Down	1466475000	1476350000
Proteasome subunit beta type-1	<i>Psmb1</i>	1.06	Up	1702650000	1608625000
Proteasome subunit beta type-2	<i>Psmb2</i>	1.06	Down	1360275000	1443325000
Proteasome subunit beta type-3	<i>Psmb3</i>	1.02	Down	516677500	529585000
Proteasome subunit beta type-4	<i>Psmb4</i>	1.04	Up	892165000	858800000
Proteasome subunit beta type-5	<i>Psmb5</i>	1.02	Down	1274695000	1299925000
Proteasome subunit beta type-6	<i>Psmb6</i>	1.13	Up	1287175000	1137165000
Proteasome subunit beta type-7	<i>Psmb7</i>	1.04	Down	564902500	588460000
Protein arginine N-methyltransferase 1	<i>Prmt1</i>	1.08	Up	1460475000	1353650000
Protein argonaute-2	<i>Ago2</i>	1.06	Up	942862500	888445000
Protein bassoon	<i>Bsn</i>	1.16	Down	878947500	1019445000
Protein BUD31 homolog	<i>Bud31</i>	2.88	Down	28350666.67	81558275
Protein CutA	<i>Cuta</i>	1.09	Up	151860000	138907500
Protein deglycase DJ-1	<i>Park7</i>	1.02	Down	19528500000	19826000000
Protein DEK	<i>Dek</i>	1.08	Down	1469175000	1586500000
Protein disulfide-isomerase	<i>P4hb</i>	1.00	Up	3386525000	3375875000
Protein disulfide-isomerase A3	<i>Pdia3</i>	1.05	Up	12080250000	11466750000
Protein disulfide-isomerase A4	<i>Pdia4</i>	1.05	Down	458390000	480350000
Protein disulfide-isomerase A6	<i>Pdia6</i>	1.12	Up	1750825000	1558725000
Protein ERGIC-53	<i>Lman1</i>	1.05	Up	399817500	379477500
Protein FAM136A	<i>Fam136a</i>	1.35	Up	119780000	88574666.67
Protein FAM162A	<i>Fam162a</i>	1.01	Down	422300000	428365000
Protein farnesyltransferase subunit beta	<i>Fntb</i>	1.29	Down	35225000	45482000
Protein farnesyltransferase/geranylgeranyltransferase type-1 subunit alpha	<i>Fnta</i>	1.09	Up	243746666.7	223062500
Protein Hikeshi	<i>HIKESHI</i>	2.18	Down	38476000	84060000
Protein IMPACT	<i>Impact</i>	1.00	Up	1171175000	1166300000
Protein kinase C alpha type	<i>Prkca</i>	1.07	Up	3562300000	3336725000
Protein kinase C and casein kinase substrate in neurons 2 protein	<i>Pacsin2</i>	1.16	Down	401567500	465940000
Protein kinase C and casein kinase substrate in neurons protein 1	<i>Pacsin1</i>	1.04	Down	6257050000	6526125000
Protein kinase C beta type	<i>Prkcb</i>	1.14	Up	138233333.3	120790000
Protein kinase C delta-binding protein	<i>Prkcdbp</i>	1.16	Up	116170000	100139000
Protein kinase C epsilon type	<i>Prkce</i>	1.06	Down	399312500	423212500
Protein lin-7 homolog A	<i>Lin7a</i>	1.25	Down	1179140000	1474957500
Protein lin-7 homolog C	<i>Lin7c</i>	1.13	Down	593672500	670740000
Protein LYRIC	<i>Mtdh</i>	1.11	Up	156926666.7	141265000
Protein MEMO1	<i>Memo1</i>	1.20	Up	118333333.3	98373000
Protein NDRG1	<i>Ndr1</i>	1.26	Down	1111040000	1398850000
Protein NDRG2	<i>Ndr2</i>	1.06	Up	5605875000	5266450000
Protein NDRG3	<i>Ndr3</i>	1.04	Down	553065000	575900000
Protein NDRG4	<i>Ndr4</i>	1.15	Down	236507500	271947500
Protein O-GlcNAcase	<i>Mgea5</i>	1.34	Up	488135000	363450000
Protein OSCP1	<i>Oscp1</i>	1.47	Down	36332000	53496000
Protein pelota homolog	<i>Pelo</i>	1.21	Up	27770000	22960000

Protein phosphatase 1 regulatory subunit 7	<i>Ppp1r7</i>	1.09	Up	1627850000	1492325000
Protein phosphatase 1A	<i>Ppm1a</i>	1.02	Up	788775000	774885000
Protein phosphatase 1B	<i>Ppm1b</i>	1.09	Down	608352500	663637500
Protein phosphatase 1E	<i>Ppm1e</i>	1.05	Down	627067500	659900000
Protein phosphatase 1F	<i>Ppm1f</i>	1.21	Down	164513333.3	199640000
Protein phosphatase 1G	<i>Ppm1g</i>	1.14	Up	233922500	204920000
Protein phosphatase 1H	<i>Ppm1h</i>	1.00	Down	177426666.7	177913333.3
Protein phosphatase inhibitor 2	<i>Ppp1r2</i>	1.56	Down	170503333.3	265972500
Protein phosphatase methylesterase 1	<i>Ppme1</i>	1.06	Up	964700000	909240000
Protein piccolo	<i>Pclo</i>	1.31	Up	843476666.7	642910000
Protein prune homolog 2	<i>Prune2</i>	1.07	Down	118271000	126069750
Protein Red	<i>Ik</i>	1.28	Down	62397666.67	79752000
Protein RER1	<i>Rer1</i>	1.13	Down	1316300000	1484400000
Protein rogdi homolog	<i>Rogdi</i>	1.07	Up	406275000	380302500
Protein RUFY3	<i>Rufy3</i>	1.17	Up	2018600000	1731450000
Protein S100-B	<i>S100b</i>	1.22	Up	351300000	288945000
Protein SCAF8	<i>Scaf8</i>	1.08	Up	161740000	149805000
Protein SEC13 homolog	<i>Sec13</i>	1.17	Up	388720000	333227500
Protein sel-1 homolog 1	<i>Sell1</i>	1.05	Up	96554500	91771333.33
Protein SET	<i>Set</i>	1.11	Up	1895800000	1709850000
Protein TBRG4	<i>Tbrg4</i>	1.22	Up	119392750	97522000
Protein THEM6	<i>Them6</i>	1.56	Up	98520000	63031000
Protein transport protein Sec31A	<i>Sec31a</i>	1.05	Down	913962500	963597500
Protein transport protein Sec61 subunit alpha isoform 1	<i>Sec61a1</i>	1.02	Down	142710000	146092500
Protein TSSC1	<i>Tssc1</i>	1.15	Down	80587000	92532000
Protein tweety homolog 1	<i>Ttyh1</i>	1.02	Up	1536875000	1513600000
Protein tyrosine phosphatase type IVA 2	<i>Ptp4a2</i>	1.05	Up	226600000	216045000
Protein unc-119 homolog A	<i>Unc119</i>	1.07	Down	1857225000	1993450000
Protein VAC14 homolog	<i>Vac14</i>	1.02	Down	132955000	135232500
Protein-arginine deiminase type-2	<i>Padi2</i>	1.16	Up	984100000	846582500
Protein-L-isoaspartate(D-aspartate) O-methyltransferase	<i>Pcmt1</i>	1.06	Down	1094005000	1163725000
Protein-S-isoprenylcysteine O-methyltransferase	<i>Icmt</i>	1.35	Up	154280000	113876666.7
Proto-oncogene tyrosine-protein kinase Src	<i>Src</i>	1.12	Up	338107500	300860000
Purine nucleoside phosphorylase	<i>Pnp</i>	1.15	Up	1709825000	1485625000
Putative ATP-dependent RNA helicase DHX30	<i>Dhx30</i>	1.17	Up	40738333.33	34917000
Putative hydrolase RBBP9	<i>Rbbp9</i>	1.09	Up	331876666.7	303482500
Pyridoxal kinase	<i>Pdxk</i>	1.08	Up	4256450000	3931000000
Pyridoxal phosphate phosphatase	<i>Pdxp</i>	1.05	Up	2848325000	2707100000
Pyridoxine-5-phosphate oxidase	<i>Pnpo</i>	1.42	Down	422367500	598005000
Pyrroline-5-carboxylate reductase 2	<i>Pycr2</i>	1.39	Up	151030000	108680000
Pyrroline-5-carboxylate reductase 3	<i>Pycrl</i>	1.11	Down	311820000	346012500
Pyruvate carboxylase, mitochondrial	<i>Pc</i>	1.08	Up	1964475000	1826250000
Pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial	<i>Pdha1</i>	1.20	Down	3426450000	4103825000
Pyruvate dehydrogenase E1 component subunit beta, mitochondrial	<i>Pdhb</i>	1.02	Up	5552625000	5459925000
Pyruvate kinase PKM	<i>Pkm</i>	1.04	Up	1.1203E+11	1.07333E+11
Quinone oxidoreductase	<i>Cryz</i>	1.13	Up	1008857500	896560000
Rab GDP dissociation inhibitor alpha	<i>Gdi1</i>	1.04	Up	30119000000	28842750000
Rab GDP dissociation inhibitor beta	<i>Gdi2</i>	1.19	Up	9922000000	8315600000
Rab GTPase-binding effector protein 1	<i>Rabep1</i>	1.12	Down	81467000	91085000
Rab3 GTPase-activating protein catalytic subunit	<i>Rab3gap1</i>	1.44	Up	126970000	88474750
Rab3 GTPase-activating protein non-catalytic subunit	<i>Rab3gap2</i>	1.30	Down	151643333.3	197082500
Rabphilin-3A	<i>Rph3a</i>	1.07	Down	1413460000	1516350000
RAC-alpha serine/threonine-protein kinase	<i>Akt1</i>	1.06	Up	194075000	182420000
Regulator complex protein LAMTOR1	<i>Lamtor1</i>	1.03	Up	179535000	173722500

Ral GTPase-activating protein subunit alpha-1	<i>Ralgap1</i>	1.11	Up	47257000	42628333.33
Ras-related C3 botulinum toxin substrate 1	<i>Rac1</i>	1.03	Down	4228875000	4358425000
Ras-related GTP-binding protein A	<i>Rraga</i>	1.09	Up	173720000	159337500
Ras-related protein Rab-10	<i>Rab10</i>	1.23	Up	619697500	501837500
Ras-related protein Rab-11B;Ras-related protein Rab-11A	<i>Rab11b;Rab11a</i>	1.09	Down	2444725000	2668675000
Ras-related protein Rab-12	<i>Rab12</i>	1.15	Down	71557000	82275000
Ras-related protein Rab-14	<i>Rab14</i>	1.04	Up	2872900000	2749950000
Ras-related protein Rab-18	<i>Rab18</i>	1.03	Up	1140630000	1110900000
Ras-related protein Rab-1A	<i>Rab1A</i>	1.01	Down	4676425000	4700525000
Ras-related protein Rab-1B	<i>Rab1b</i>	1.02	Down	1315775000	1347625000
Ras-related protein Rab-21	<i>Rab21</i>	1.24	Down	493895000	612417500
Ras-related protein Rab-28	<i>Rab28</i>	1.07	Up	157527500	147850000
Ras-related protein Rab-2A	<i>Rab2a</i>	1.07	Up	3218950000	3005750000
Ras-related protein Rab-35	<i>Rab35</i>	1.55	Down	372712500	576117500
Ras-related protein Rab-3A	<i>Rab3a</i>	1.15	Up	9262950000	8025975000
Ras-related protein Rab-3B	<i>Rab3b</i>	1.20	Up	645006666.7	536982500
Ras-related protein Rab-3C	<i>Rab3c</i>	1.48	Up	681147500	459653333.3
Ras-related protein Rab-4B	<i>Rab4b</i>	1.02	Down	134517500	136763333.3
Ras-related protein Rab-5A	<i>Rab5a</i>	1.01	Down	1983875000	1997175000
Ras-related protein Rab-6A	<i>Rab6a</i>	1.27	Down	4471200000	5688000000
Ras-related protein Rab-7a	<i>Rab7a</i>	1.07	Up	4918400000	4591250000
Ras-related protein Rab-8A	<i>Rab8a</i>	1.04	Up	153575000	148186666.7
Ras-related protein Rab-8B	<i>Rab8b</i>	1.46	Up	96372000	65839000
Ras-related protein Ral-A	<i>Rala</i>	1.11	Up	1267425000	1138492500
Ras-related protein Ral-B	<i>Ralb</i>	1.29	Down	903775000	1165927500
Ras-related protein Rap-1A	<i>Rap1a</i>	1.03	Down	1882400000	1930500000
Ras-related protein Rap-1b	<i>Rap1b</i>	1.11	Down	406467500	449605000
Ras-related protein R-Ras	<i>Rras</i>	1.16	Up	179485000	155226666.7
Receptor expression-enhancing protein 5	<i>Reep5</i>	1.23	Down	484420000	594210000
Receptor expression-enhancing protein 6	<i>Reep6</i>	1.03	Down	1357032500	1398500000
Receptor-type tyrosine-protein phosphatase alpha	<i>Ptpra</i>	2.17	Down	26060000	56626000
Receptor-type tyrosine-protein phosphatase F	<i>Ptprf</i>	1.09	Down	445202500	486040000
Receptor-type tyrosine-protein phosphatase zeta	<i>Ptprz1</i>	1.21	Down	74303666.67	90118500
Redox-regulatory protein FAM213A	<i>Fam213a</i>	1.10	Up	590447500	535132500
Regulator of G-protein signaling 7	<i>Rgs7</i>	1.11	Down	556655000	620267500
Regulator of G-protein signaling 9	<i>Rgs9</i>	1.22	Up	820292500	672115000
Regulator of microtubule dynamics protein 3	<i>Rmdn3</i>	1.00	Up	70074000	70068750
Renin receptor	<i>Atp6ap2</i>	1.13	Down	383755000	434572500
Replication initiator 1	<i>Repin1</i>	1.08	Down	10880500	11731500
Replication protein A 32 kDa subunit	<i>Rpa2</i>	1.09	Down	244867500	267005000
Reticulon-1	<i>Rtn1</i>	1.12	Down	3390725000	3789475000
Reticulon-3	<i>Rtn3</i>	1.05	Up	3169825000	3009250000
Reticulon-4	<i>Rtn4</i>	1.03	Up	8819375000	8600650000
Retinal dehydrogenase 1	<i>Aldh1a1</i>	11.69	Down	91349750	1067577500
Retinol-binding protein 1	<i>Rbp1</i>	1.10	Up	1912400000	1735725000
Rho GDP-dissociation inhibitor 1	<i>Arhgdia</i>	1.06	Down	3834700000	4078575000
Rho GTPase-activating protein 44	<i>Arhgap44</i>	1.34	Down	84239500	112710000
Rho guanine nucleotide exchange factor 9	<i>Arhgef9</i>	1.13	Down	100960000	114410000
Rhodopsin	<i>Rho</i>	1.08	Up	26407750000	24357750000
Rhodopsin kinase	<i>Grk1</i>	1.02	Down	2535050000	2588100000
Rho-related GTP-binding protein RhoB	<i>Rhob</i>	1.05	Down	215515000	225445000
Ribonuclease inhibitor	<i>Rnh1</i>	1.08	Up	827290000	768890000
Ribonuclease UK114	<i>Hrsp12</i>	1.09	Down	646263333.3	704910000
Ribose-phosphate pyrophosphokinase 1;Ribose-phosphate pyrophosphokinase 2	<i>Prps1;Prps2</i>	1.08	Down	2841600000	3058025000
Ribosomal protein S6 kinase alpha-1	<i>Rps6ka1</i>	1.11	Up	66309500	59865000
Ribosome maturation protein SBDS	<i>Sbds</i>	1.48	Down	74987000	111352750

RNA polymerase II subunit A C-terminal domain phosphatase SSU72	<i>Ssu72</i>	1.03	Down	53078750	54678666.67
RNA polymerase-associated protein LEO1	<i>Leo1</i>	1.22	Down	81605500	99152333.33
RNA-binding motif protein, X chromosome retrogene-like;RNA-binding motif protein, X chromosome retrogene-like, N-terminally processed;RNA binding motif protein, X-linked-like-1	<i>Rbmxml;Rbmxl1</i>	3.02	Up	232250000	76812000
RNA-binding motif protein, X chromosome;RNA-binding motif protein, X chromosome, N-terminally processed	<i>RbmX</i>	1.02	Down	1961400000	2001475000
RNA-binding protein 10	<i>Rbm10</i>	1.48	Up	131406500	89069500
RNA-binding protein 3	<i>Rbm3</i>	1.08	Down	200910000	216060000
RNA-binding protein 4B	<i>Rbm4b</i>	1.06	Up	191100000	180340000
RNA-binding protein 8A	<i>Rbm8a</i>	1.52	Down	254630000	386995000
RNA-binding protein Musashi homolog 1	<i>Msi1</i>	1.09	Down	1970075000	2144100000
RNA-binding protein Nova-1	<i>Nova1</i>	1.07	Down	120321750	128301750
Rod outer segment membrane protein 1	<i>Rom1</i>	1.00	Up	1949975000	1941050000
rRNA 2-O-methyltransferase fibrillarin	<i>Fbl</i>	1.07	Up	256220000	239622500
RUS1 family protein C16orf58 homolog	<i>N/A</i>	1.04	Down	136480000	141870000
RuvB-like 1	<i>Ruvbl1</i>	1.08	Up	918832500	853235000
Ryanodine receptor 2	<i>Ryr2</i>	1.11	Down	46720500	51808000
Saccharopine dehydrogenase-like oxidoreductase	<i>Sccpdh</i>	1.09	Up	1352350000	1240350000
S-adenosylmethionine synthase isoform type-2	<i>Mat2a</i>	1.32	Down	508395000	671030000
SAP domain-containing ribonucleoprotein	<i>Sarnp</i>	1.23	Down	944910000	1161200000
Sarcolemmal membrane-associated protein	<i>Slmap</i>	1.20	Up	3605025000	2996700000
Sarcoplasmic/endoplasmic reticulum calcium ATPase 2	<i>Atp2a2</i>	1.03	Down	3168775000	3258175000
Sarcosine dehydrogenase, mitochondrial	<i>Sardh</i>	1.34	Down	82565000	110309750
S-arrestin	<i>Sag</i>	1.21	Up	96800750000	79675250000
Scaffold attachment factor B1	<i>Safb</i>	1.02	Up	461730000	454822500
Sec1 family domain-containing protein 1	<i>Scfd1</i>	1.02	Down	196523333.3	200697500
SEC14-like protein 2	<i>Sec14l2</i>	1.37	Up	175510000	127936666.7
Secernin-1	<i>Scrn1</i>	1.14	Up	2253975000	1977525000
Secernin-2	<i>Scrn2</i>	1.03	Down	429765000	443240000
Secretagogin	<i>Scgn</i>	1.03	Down	1755000000	1805575000
Secretory carrier-associated membrane protein 1	<i>Scamp1</i>	1.03	Up	1431850000	1395725000
Secretory carrier-associated membrane protein 5	<i>Scamp5</i>	1.16	Up	598747500	514072500
Selenium-binding protein 1	<i>Selenbp1</i>	1.02	Down	123290000	125687500
Selenocysteine lyase	<i>Scly</i>	1.15	Down	257877500	295410000
Selenoprotein T	<i>Selt</i>	1.16	Down	96403666.67	111700000
Sepiapterin reductase	<i>Spr</i>	1.00	Up	148627500	148045000
Septin-11	<i>Sep--11</i>	1.06	Down	2299300000	2437950000
Septin-2	<i>Sep--2</i>	1.07	Up	1123650000	1046535000
Septin-5	<i>Sep--5</i>	1.03	Up	2498075000	2416925000
Septin-7	<i>Sep--7</i>	1.46	Up	3596500000	2466075000
Septin-8	<i>Sep--8</i>	1.00	Down	602317500	604175000
Septin-9	<i>Sep--9</i>	1.15	Up	516305000	447475000
Serine protease inhibitor A3K	<i>Serpina3k</i>	1.51	Down	132024666.7	199932500
Serine/arginine-rich splicing factor 2	<i>Srsf2</i>	1.11	Up	1065990000	958195000
Serine/arginine-rich splicing factor 5	<i>Srsf5</i>	1.05	Down	320243333.3	336552500
Serine/arginine-rich splicing factor 6	<i>Srsf6</i>	1.04	Down	748063333.3	781485000
Serine/threonine-protein kinase 24;Serine/threonine-protein kinase 24 35 kDa subunit;Serine/threonine-protein kinase 24 12 kDa subunit	<i>Stk24</i>	1.61	Up	104294333.3	64753000
Serine/threonine-protein kinase A-Raf	<i>Araf</i>	1.37	Up	83004000	60522000
Serine/threonine-protein kinase BRK2	<i>Brsk2</i>	1.07	Up	208770000	195107500
Serine/threonine-protein kinase DCLK1	<i>Dclk1</i>	1.25	Down	306647500	384375000

Serine/threonine-protein kinase DCLK2	<i>Dclk2</i>	1.01	Up	165895000	163965000
Serine/threonine-protein kinase MARK2	<i>Mark2</i>	1.33	Up	40142500	30255500
Serine/threonine-protein kinase mTOR	<i>Mtor</i>	1.15	Up	230965000	201340000
Serine/threonine-protein kinase PAK 2;PAK-2p27;PAK-2p34	<i>Pak2</i>	1.20	Down	223215000	266893333.3
Serine/threonine-protein kinase PAK 3	<i>Pak3</i>	1.08	Down	1514900000	1629750000
Serine/threonine-protein kinase TAO3	<i>Taok3</i>	1.30	Down	118640000	154710000
Serine/threonine-protein kinase WNK1;Serine/threonine-protein kinase WNK4	<i>Wnk1;Wnk4</i>	1.03	Up	58340000	56867000
Serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit B alpha isoform	<i>Ppp2r2a</i>	1.03	Up	337285000	328932500
Serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A beta isoform	<i>Ppp2r1b</i>	1.06	Up	1155500000	1094775000
Serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform	<i>Ppp2ca</i>	1.08	Up	3995775000	3705925000
Serine/threonine-protein phosphatase 2B catalytic subunit alpha isoform	<i>Ppp3ca</i>	1.08	Up	1322000000	1224275000
Serine/threonine-protein phosphatase 2B catalytic subunit beta isoform	<i>Ppp3cb</i>	1.05	Up	230286666.7	218947500
Serine/threonine-protein phosphatase 4 catalytic subunit	<i>Ppp4c</i>	1.21	Down	112535000	135670000
Serine/threonine-protein phosphatase 5	<i>Ppp5c</i>	1.04	Up	593802500	571602500
Serine/threonine-protein phosphatase 6 catalytic subunit;Serine/threonine-protein phosphatase 6 catalytic subunit, N-terminally processed	<i>Ppp6c</i>	1.19	Down	196230000	234075000
Serine/threonine-protein phosphatase CPPED1	<i>Cpped1</i>	1.06	Down	82469000	87428333.33
Serine/threonine-protein phosphatase PGAM5, mitochondrial	<i>Pgam5</i>	1.27	Down	96226500	122074666.7
Serine/threonine-protein phosphatase PP1-alpha catalytic subunit	<i>Ppp1ca</i>	1.18	Down	221720000	261602500
Serine/threonine-protein phosphatase PP1-beta catalytic subunit	<i>Ppp1cb</i>	1.28	Up	442220000	344995000
Serine/threonine-protein phosphatase PP1-gamma catalytic subunit	<i>Ppp1cc</i>	1.09	Up	4121775000	3783200000
Serine-threonine kinase receptor-associated protein	<i>Strap</i>	1.13	Down	700285000	794575000
Serine--tRNA ligase, cytoplasmic	<i>Sars</i>	1.05	Up	1865950000	1775475000
Serotransferrin	<i>Tf</i>	1.01	Up	3547475000	3514350000
Serpin H1	<i>Serpinh1</i>	1.61	Up	193510000	120133333.3
Serum albumin	<i>Alb</i>	1.03	Down	19192000000	19850750000
Serum paraoxonase/arylesterase 2	<i>Pon2</i>	1.19	Up	303880000	255890000
S-formylglutathione hydrolase	<i>Esd</i>	1.01	Up	3316125000	3298700000
SH3 domain-containing kinase-binding protein 1	<i>Sh3kbp1</i>	1.86	Up	47868000	25696500
SH3-containing GRB2-like protein 3-interacting protein 1	<i>Sgip1</i>	1.02	Down	237450000	241025000
Shootin-1	<i>SHTN1</i>	1.10	Up	31828500	29052500
Short/branched chain specific acyl-CoA dehydrogenase, mitochondrial	<i>Acadslb</i>	1.03	Down	165245000	170806666.7
Sideroflexin-1	<i>Sfxn1</i>	1.00	Up	1202000000	1201102500
Sideroflexin-3	<i>Sfxn3</i>	1.04	Up	4003750000	3837475000
Sideroflexin-5	<i>Sfxn5</i>	1.06	Up	1213290000	1140100000
Signal recognition particle 54 kDa protein	<i>Srp54</i>	1.08	Up	187326666.7	173645000
Signal recognition particle receptor subunit beta	<i>Srprb</i>	1.06	Down	324102500	342970000
Signal transducer and activator of transcription 3	<i>Stat3</i>	1.15	Up	333137500	289377500
Signal transducer and activator of transcription 5B;Signal transducer and activator of transcription 5A	<i>Stat5b;Stat5a</i>	1.24	Up	337037500	272312500

Single-stranded DNA-binding protein, mitochondrial	<i>Ssbp1</i>	1.14	Up	338435000	296365000
Sister chromatid cohesion protein PDS5 homolog B	<i>Pds5b</i>	1.07	Up	288365000	269365000
Small glutamine-rich tetratricopeptide repeat-containing protein alpha	<i>Sgta</i>	1.10	Down	571772500	626810000
Small nuclear ribonucleoprotein-associated protein N;Small nuclear ribonucleoprotein-associated protein B	<i>Snrpn;Snrpb</i>	1.09	Down	1284407500	1403950000
Sodium- and chloride-dependent GABA transporter 1	<i>Slc6a1</i>	1.16	Up	2573050000	2213350000
Sodium- and chloride-dependent GABA transporter 3	<i>Slc6a11</i>	1.01	Down	4406025000	4431925000
Sodium- and chloride-dependent glycine transporter 1	<i>Slc6a9</i>	1.01	Down	1246575000	1260000000
Sodium- and chloride-dependent taurine transporter	<i>Slc6a6</i>	1.06	Down	121843333.3	128672500
Sodium bicarbonate cotransporter 3	<i>Slc4a7</i>	1.17	Up	451202500	384570000
Sodium channel subunit beta-2	<i>Scn2b</i>	1.30	Down	123630000	161150000
Sodium/calcium exchanger 1	<i>Slc8a1</i>	1.03	Down	527492500	541127500
Sodium/calcium exchanger 3	<i>Slc8a3</i>	1.13	Up	117280000	104222500
Sodium/potassium/calcium exchanger 1	<i>Slc24a1</i>	1.32	Down	177730000	235337500
Sodium/potassium-transporting ATPase subunit alpha-1	<i>Atp1a1</i>	1.06	Up	19515750000	18458750000
Sodium/potassium-transporting ATPase subunit alpha-2	<i>Atp1a2</i>	1.04	Up	1241300000	1197500000
Sodium/potassium-transporting ATPase subunit alpha-3	<i>Atp1a3</i>	1.01	Down	80839250000	81326500000
Sodium/potassium-transporting ATPase subunit beta-1	<i>Atp1b1</i>	1.00	Down	9784775000	9814050000
Sodium/potassium-transporting ATPase subunit beta-2	<i>Atp1b2</i>	1.05	Up	2520100000	2407200000
Sodium/potassium-transporting ATPase subunit beta-3	<i>Atp1b3</i>	1.12	Up	6050200000	5397725000
Sodium-coupled neutral amino acid transporter 1	<i>Slc38a1</i>	1.01	Down	138213333.3	139800000
Sodium-coupled neutral amino acid transporter 3	<i>Slc38a3</i>	1.14	Up	896325000	784575000
Sodium-dependent neutral amino acid transporter SLC6A17	<i>Slc6a17</i>	1.21	Up	260710000	215350000
Sodium-driven chloride bicarbonate exchanger	<i>Slc4a10</i>	1.13	Up	728967500	643257500
Solute carrier family 12 member 4	<i>Slc12a4</i>	1.27	Up	79625500	62519000
Solute carrier family 12 member 5	<i>Slc12a5</i>	1.06	Up	17085000000	16092500000
Solute carrier family 12 member 7	<i>Slc12a7</i>	1.20	Up	183110000	152080000
Solute carrier family 2, facilitated glucose transporter member 1	<i>Slc2a1</i>	1.03	Down	3231675000	3329350000
Solute carrier family 2, facilitated glucose transporter member 3	<i>Slc2a3</i>	1.07	Down	321717500	344862500
Solute carrier family 25 member 46	<i>Slc25a46</i>	1.24	Up	48822000	39464500
Sorbitol dehydrogenase	<i>Sord</i>	1.05	Up	246646666.7	235005000
Sorting and assembly machinery component 50 homolog	<i>Samm50</i>	1.01	Up	654022500	650327500
Sorting nexin-1	<i>Snx1</i>	1.04	Down	416315000	432150000
Sorting nexin-27	<i>Snx27</i>	1.15	Up	542395000	471720000
Sorting nexin-3	<i>Snx3</i>	1.02	Up	423475000	413987500
Sorting nexin-5	<i>Snx5</i>	1.18	Down	180912500	214070000
SPARC	<i>Sparc</i>	1.02	Up	136928333.3	133952500
Spectrin alpha chain, non-erythrocytic 1	<i>Sptan1</i>	1.06	Down	26600500000	28065500000
Spectrin beta chain, non-erythrocytic 2	<i>Sptbn2</i>	1.02	Down	2536825000	2600125000
Spermatid perinuclear RNA-binding protein	<i>Strbp</i>	1.11	Down	327503333.3	363865000
S-phase kinase-associated protein 1	<i>Skp1</i>	1.28	Down	571392500	733552500
Spliceosome RNA helicase Ddx39b	<i>Ddx39b</i>	1.07	Up	13133250000	12272250000

Splicing factor 3A subunit 2	<i>Sf3a2</i>	1.04	Down	352065000	367212500
Splicing factor U2AF 26 kDa subunit	<i>U2af114</i>	1.06	Down	348540000	369882500
SPRY domain-containing protein 4	<i>Spryd4</i>	1.16	Up	189885000	164257500
Squalene synthase	<i>Fdft1</i>	1.00	Down	140610000	140670000
Src substrate cortactin	<i>Cttn</i>	1.25	Down	551412500	690572500
STAM-binding protein	<i>Stambp</i>	1.11	Down	77872000	86784000
Staphylococcal nuclease domain-containing protein 1	<i>Snd1</i>	1.00	Down	1160075000	1165675000
Stathmin	<i>Stmn1</i>	1.12	Up	336470000	300377500
STE20/SPS1-related proline-alanine-rich protein kinase	<i>Stk39</i>	1.12	Down	109460000	122720000
Steroid hormone receptor ERR2	<i>Esrrb</i>	1.37	Up	71196500	52100000
Sterol-4-alpha-carboxylate 3-dehydrogenase, decarboxylating	<i>Nsdhl</i>	1.22	Down	104900000	127516666.7
Stomatin-like protein 2, mitochondrial	<i>Stoml2</i>	1.16	Up	315772500	271677500
Stress-70 protein, mitochondrial	<i>Hspa9</i>	1.01	Down	7398450000	7493350000
Stress-induced-phosphoprotein 1	<i>Stip1</i>	1.03	Up	4715325000	4584025000
Striatin-3	<i>Strn3</i>	1.04	Down	152775000	158786666.7
Stromal interaction molecule 1	<i>Stim1</i>	1.15	Up	165247500	143662500
Structural maintenance of chromosomes protein 1A	<i>Smc1a</i>	1.34	Down	611392500	819747500
Structural maintenance of chromosomes protein 3	<i>Smc3</i>	1.04	Down	581857500	605362500
Succinate dehydrogenase [ubiquinone] cytochrome b small subunit, mitochondrial	<i>Sdhb</i>	1.19	Up	163987250	138220666.7
Succinate dehydrogenase [ubiquinone] flavoprotein subunit, mitochondrial	<i>Sdha</i>	1.17	Up	3935325000	3368800000
Succinate dehydrogenase [ubiquinone] iron-sulfur subunit, mitochondrial	<i>Sdhb</i>	1.06	Up	1604900000	1508050000
Succinate-semialdehyde dehydrogenase, mitochondrial	<i>Aldh5a1</i>	1.02	Down	4163250000	4255475000
Succinyl-CoA ligase [ADP/GDP-forming] subunit alpha, mitochondrial	<i>Suclg1</i>	1.18	Down	3339200000	3938100000
Succinyl-CoA:3-ketoacid coenzyme A transferase 1, mitochondrial	<i>Oxct1</i>	1.16	Down	1127907500	1306827500
Sulfated glycoprotein 1	<i>Psap</i>	1.01	Down	509285000	515987500
Sulfite oxidase, mitochondrial	<i>Suox</i>	1.02	Up	234365000	229715000
Sulfotransferase 4A1	<i>Sult4a1</i>	1.05	Up	87122500	82898500
SUMO-activating enzyme subunit 1;SUMO-activating enzyme subunit 1, N-terminally processed	<i>Sae1</i>	1.12	Up	1472700000	1320275000
SUMO-conjugating enzyme UBC9	<i>Ube2i</i>	1.04	Up	839395000	807437500
Superoxide dismutase [Cu-Zn]	<i>Sod1</i>	1.34	Down	6953700000	9313725000
Superoxide dismutase [Mn], mitochondrial	<i>Sod2</i>	1.26	Down	3240400000	4075425000
Suppressor of G2 allele of SKP1 homolog	<i>Sugt1</i>	1.06	Down	360217500	380930000
Survival of motor neuron-related-splicing factor 30	<i>Smdc1</i>	1.14	Down	135375000	153753333.3
SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily E member 1	<i>Smarca1</i>	1.14	Down	88763000	100844250
Synapsin-1	<i>Syn1</i>	1.05	Up	4880575000	4627325000
Synapsin-2	<i>Syn2</i>	1.09	Up	1732950000	1589400000
Synaptic vesicle glycoprotein 2A	<i>Sv2a</i>	1.12	Down	4487575000	5012825000
Synaptic vesicle glycoprotein 2B	<i>Sv2b</i>	1.05	Up	3880975000	3691600000
Synaptic vesicle membrane protein VAT-1 homolog	<i>Vat1</i>	1.04	Down	1342875000	1390625000
Synaptobrevin homolog YKT6	<i>Ykt6</i>	1.04	Down	214685000	224200000
Synaptogyrin-1	<i>Syngr1</i>	1.14	Up	1517000000	1326300000
Synaptojanin-1	<i>Synj1</i>	1.01	Up	6085625000	6003750000
Synaptojanin-2-binding protein	<i>Synj2bp</i>	1.26	Up	131640000	104662750
Synaptophysin	<i>Syp</i>	1.02	Up	6568025000	6432950000
Synaptoporin	<i>Synpr</i>	1.31	Up	3362525000	2575875000
Synaptosomal-associated protein 25	<i>Snap25</i>	1.38	Down	1777875000	2458325000

Synaptotagmin-1	<i>Syt1</i>	1.07	Up	20616500000	19315500000
Synergism gamma	<i>Synrg</i>	1.28	Up	77271750	60272500
Syntaxin-12	<i>Stx12</i>	1.09	Up	564302500	518855000
Syntaxin-1A	<i>Stx1a</i>	1.13	Down	153806666.7	174343333.3
Syntaxin-1B	<i>Stx1b</i>	1.03	Down	4578000000	4723000000
Syntaxin-3	<i>Stx3</i>	1.08	Up	2040875000	1898100000
Syntaxin-4	<i>Stx4</i>	1.07	Up	44740000	41763250
Syntaxin-7	<i>Stx7</i>	1.08	Down	244536666.7	263545000
Syntaxin-binding protein 1	<i>Stxbp1</i>	1.03	Up	32669000000	31744500000
Syntaxin-binding protein 5	<i>Stxbp5</i>	1.05	Up	515200000	489430000
Syntenin-1	<i>Sdcbp</i>	1.08	Up	278740000	258766666.7
Tail-anchored protein insertion receptor WRB	<i>Wrb</i>	1.06	Down	83905500	88536500
Target of rapamycin complex subunit LST8	<i>Mlst8</i>	1.38	Up	62205000	45208000
T-complex protein 1 subunit alpha	<i>Tcp1</i>	1.02	Up	6685625000	6527375000
T-complex protein 1 subunit beta	<i>Cct2</i>	1.02	Up	5406450000	5325475000
T-complex protein 1 subunit delta	<i>Cct4</i>	1.03	Up	6755650000	6556350000
T-complex protein 1 subunit epsilon	<i>Cct5</i>	1.04	Up	5777400000	5572925000
T-complex protein 1 subunit gamma	<i>Cct3</i>	1.01	Down	7184175000	7277150000
Tectonin beta-propeller repeat-containing protein 1	<i>Tecpr1</i>	1.21	Up	164236666.7	135565000
Tenascin-R	<i>Tnr</i>	1.05	Up	1080647500	1030092500
Tetratricopeptide repeat protein 9C	<i>Ttc9c</i>	1.21	Up	76186000	63159000
Thiamine-triphosphatase	<i>Thtpa</i>	1.47	Down	98002000	144545000
Thimet oligopeptidase	<i>Thop1</i>	1.08	Up	2974025000	2743875000
Thioredoxin	<i>Txn</i>	1.25	Down	879995000	1098555000
Thioredoxin domain-containing protein 12	<i>Txndc12</i>	1.04	Down	296112500	308317500
Thioredoxin domain-containing protein 9	<i>Txndc9</i>	1.04	Up	70813000	67984500
Thioredoxin reductase 1, cytoplasmic	<i>Txnrd1</i>	1.03	Up	836972500	816035000
Thioredoxin reductase 2, mitochondrial	<i>Txnrd2</i>	1.44	Down	48753000	70265750
Thioredoxin-dependent peroxide reductase, mitochondrial	<i>Prdx3</i>	1.22	Up	1675425000	1378250000
Thioredoxin-like protein 1	<i>Txnl1</i>	1.02	Down	915105000	936362500
Thioredoxin-related transmembrane protein 2	<i>Tmx2</i>	1.04	Down	137690000	143350000
Thiosulfate sulfurtransferase	<i>Tst</i>	1.11	Up	859970000	772370000
THO complex subunit 6 homolog	<i>Thoc6</i>	2.04	Up	80596000	39597500
Threonine--tRNA ligase, cytoplasmic	<i>Tars</i>	1.18	Up	1267650000	1075850000
Threonine--tRNA ligase, mitochondrial	<i>Tars2</i>	1.59	Up	84227500	52861000
Thy-1 membrane glycoprotein	<i>Thy1</i>	1.06	Up	2387200000	2245575000
Thyroid hormone receptor-associated protein 3	<i>Thrap3</i>	1.11	Down	88340500	97908000
T-kininogen 1;T-kininogen 1 heavy chain;T-kinin;T-kininogen 1 light chain	<i>Map1</i>	1.20	Up	151596666.7	126384000
Toll-interacting protein	<i>Tollip</i>	1.01	Down	572852500	577695000
Torsin-1A-interacting protein 1	<i>Tor1aip1</i>	1.03	Down	307905000	315810000
Trafficking protein particle complex subunit 1	<i>Trappc1</i>	1.30	Up	286165000	220397500
Trafficking protein particle complex subunit 2	<i>Trappc2</i>	1.00	Up	160100000	160025000
Trafficking protein particle complex subunit 2-like protein	<i>Trappc2l</i>	1.08	Down	63559000	68520500
Trafficking protein particle complex subunit 3	<i>Trappc3</i>	1.05	Down	340727500	358202500
Trafficking protein particle complex subunit 4	<i>Trappc4</i>	1.07	Up	124727500	116191500
Transaldolase	<i>Taldo1</i>	1.01	Up	10657475000	10560425000
Transcription activator BRG1	<i>Smarca4</i>	1.21	Up	505662500	416695000
Transcription elongation factor A protein 1	<i>Tcea1</i>	1.01	Down	620927500	629307500
Transcription elongation factor B polypeptide 1	<i>Tceb1</i>	1.07	Up	619627500	576407500

Transcription elongation factor B polypeptide 2	<i>Tceb2</i>	1.01	Down	695107500	700152500
Transcription initiation factor IIB	<i>Gtf2b</i>	1.46	Down	78263333.33	114628666.7
Transcription intermediary factor 1-beta	<i>Trim28</i>	1.06	Up	3449475000	3257400000
Transcriptional activator protein Pur-alpha	<i>Pura</i>	1.16	Down	2988525000	3456550000
Transcriptional activator protein Pur-beta	<i>Purb</i>	1.11	Down	2697150000	3006925000
Transcriptional repressor CTCF	<i>Ctcf</i>	1.90	Down	34962666.67	66479250
Transferrin receptor protein 1	<i>Tfrc</i>	1.05	Up	99044250	94668750
Transformer-2 protein homolog beta	<i>Tra2b</i>	1.21	Up	375363333.3	310995000
Transforming protein RhoA	<i>Rhoa</i>	1.08	Down	2619425000	2833125000
Transgelin	<i>Tagln</i>	1.11	Down	503730000	557707500
Transgelin-2	<i>Tagln2</i>	1.06	Up	710737500	671445000
Transgelin-3	<i>Tagln3</i>	1.08	Down	3464500000	3730650000
Transitional endoplasmic reticulum ATPase	<i>Vcp</i>	1.05	Up	15793000000	15104250000
Transketolase	<i>Tkt</i>	1.01	Up	37281250000	36774250000
Translation initiation factor eIF-2B subunit alpha	<i>Eif2b1</i>	1.02	Up	94491000	92966333.33
Translation initiation factor eIF-2B subunit beta	<i>Eif2b2</i>	1.01	Down	135920000	136650000
Translation initiation factor eIF-2B subunit delta	<i>Eif2b4</i>	1.10	Down	95128000	104539000
Translation initiation factor eIF-2B subunit epsilon	<i>Eif2b5</i>	1.16	Down	73034000	84616000
Translationally-controlled tumor protein	<i>Tpt1</i>	1.02	Up	1307100000	1277525000
Translin-associated protein X	<i>Tsnax</i>	1.19	Up	928185000	782005000
Translocon-associated protein subunit alpha	<i>Ssr1</i>	1.31	Up	270030000	206600000
Translocon-associated protein subunit delta	<i>Ssr4</i>	1.03	Up	375200000	362737500
Transmembrane 9 superfamily member 2	<i>Tm9sf2</i>	1.13	Up	212426666.7	188177500
Transmembrane emp24 domain-containing protein 10	<i>Tmed10</i>	1.15	Up	935800000	817102500
Transmembrane emp24 domain-containing protein 2	<i>Tmed2</i>	1.18	Up	250300000	211665000
Transmembrane emp24 domain-containing protein 7	<i>Tmed7</i>	1.08	Up	617145000	571037500
Transmembrane emp24 domain-containing protein 9	<i>Tmed9</i>	1.10	Up	360995000	328862500
Transmembrane protein 11, mitochondrial	<i>Tmem11</i>	1.07	Up	306173333.3	285792500
Transmembrane protein 33	<i>Tmem33</i>	1.12	Up	159195000	142597500
Transmembrane protein 43	<i>Tmem43</i>	1.05	Down	83275333.33	87113000
Tricarboxylate transport protein, mitochondrial	<i>Slc25a1</i>	1.12	Up	480727500	428960000
Trifunctional enzyme subunit alpha, mitochondrial;Long-chain enoyl-CoA hydratase;Long chain 3-hydroxyacyl-CoA dehydrogenase	<i>Hadha</i>	1.15	Up	3086000000	2682700000
Trifunctional enzyme subunit beta, mitochondrial;3-ketoacyl-CoA thiolase	<i>Hadhb</i>	1.08	Up	1779450000	1647400000
Triosephosphate isomerase	<i>Tpi1</i>	1.00	Up	64398250000	64240000000
Tripartite motif-containing protein 2	<i>Trim2</i>	1.48	Up	258530000	174747500
Tripartite motif-containing protein 3	<i>Trim3</i>	1.09	Up	175020000	160805000
Tripeptidyl-peptidase 1	<i>Tpp1</i>	1.01	Down	746463333.3	751680000
Tripeptidyl-peptidase 2	<i>Tpp2</i>	1.01	Up	699282500	692732500
tRNA-dihydrouridine(47) synthase [NAD(P)(+)]-like	<i>Dus3l</i>	1.22	Up	145213333.3	119230000
tRNA-splicing ligase RtcB homolog	<i>Rtcb</i>	1.03	Up	3169125000	3072075000
Trophoblast glycoprotein	<i>Tpbg</i>	1.72	Down	49395000	84988000
Tropomodulin-2	<i>Tmod2</i>	1.06	Down	551965000	584470000
Tropomyosin alpha-3 chain	<i>Tpm3</i>	1.14	Up	360455000	316755000
Tryptophan--tRNA ligase, cytoplasmic;T1-TrpRS;T2-TrpRS	<i>Wars</i>	1.08	Down	1040112500	1120125000

Tubulin alpha-1A chain;Tubulin alpha-3 chain	<i>Tuba1a;Tuba3a</i>	1.07	Up	1.86443E+11	1.7469E+11
Tubulin alpha-1B chain	<i>Tuba1b</i>	1.03	Up	17442000000	16899750000
Tubulin alpha-4A chain	<i>Tuba4a</i>	1.05	Up	7466925000	7129725000
Tubulin beta-2B chain	<i>Tubb2b</i>	1.04	Up	41901750000	40449750000
Tubulin beta-3 chain	<i>Tubb3</i>	1.08	Down	9903000000	10717400000
Tubulin beta-4B chain	<i>Tubb4b</i>	1.04	Up	1.2388E+11	1.1906E+11
Tubulin beta-5 chain	<i>Tubb5</i>	1.11	Up	19009750000	17191750000
Tubulin gamma-1 chain	<i>Tubg1</i>	1.26	Down	40820000	51503000
Tubulin polymerization-promoting protein family member 3	<i>Tppp3</i>	1.57	Down	350595000	549615000
Tubulin-specific chaperone A	<i>Tbca</i>	1.12	Up	163950000	146713333.3
Tudor domain-containing protein 7	<i>Tdrd7</i>	1.21	Down	126440000	152600000
Tumor protein p63-regulated gene 1-like protein	<i>Tprg1l</i>	1.03	Down	65446500	67715000
Tumor susceptibility gene 101 protein	<i>Tsg101</i>	1.11	Up	299720000	269277500
Twinfilin-1	<i>Twfl1</i>	1.07	Up	338676666.7	318000000
Type 2 phosphatidylinositol 4,5-bisphosphate 4-phosphatase	<i>Tmem55a</i>	1.30	Down	100459000	130140000
Type I inositol 3,4-bisphosphate 4-phosphatase	<i>Inpp4a</i>	1.05	Down	248762500	261187500
Tyrosine 3-monooxygenase	<i>Th</i>	1.87	Down	54232000	101462000
Tyrosine-protein phosphatase non-receptor type 11	<i>Ptpn11</i>	1.06	Down	1067007500	1130125000
Tyrosine-protein phosphatase non-receptor type 23	<i>Ptpn23</i>	1.08	Down	164062500	177257500
Tyrosine-protein phosphatase non-receptor type substrate 1	<i>Sirpa</i>	1.30	Up	262620000	201465000
Tyrosine--tRNA ligase, cytoplasmic;Tyrosine--tRNA ligase, cytoplasmic, N-terminally processed	<i>Yars</i>	1.16	Down	1192372500	1388525000
Tyrosyl-DNA phosphodiesterase 1	<i>Tdp1</i>	1.45	Down	9693800	14101000
U1 small nuclear ribonucleoprotein C	<i>Snrpc</i>	1.20	Down	348402500	418890000
U4/U6.U5 tri-snRNP-associated protein 1	<i>Sart1</i>	1.05	Down	110525000	116420000
U5 small nuclear ribonucleoprotein 200 kDa helicase	<i>Snrnp200</i>	1.09	Down	2106350000	2303400000
Ubiquilin-1	<i>Ubqln1</i>	1.04	Down	431950000	450232500
Ubiquitin carboxyl-terminal hydrolase 10	<i>Usp10</i>	1.11	Up	172682500	155995000
Ubiquitin carboxyl-terminal hydrolase 19	<i>Usp19</i>	1.49	Down	66728000	99718000
Ubiquitin carboxyl-terminal hydrolase 7	<i>Usp7</i>	1.04	Down	1102022500	1141675000
Ubiquitin carboxyl-terminal hydrolase isozyme L1	<i>Uchl1</i>	1.04	Down	9070375000	9404700000
Ubiquitin carboxyl-terminal hydrolase isozyme L3	<i>Uchl3</i>	1.27	Down	245136666.7	310247500
Ubiquitin fusion degradation protein 1 homolog	<i>Ufd1l</i>	1.08	Down	216415000	232760000
Ubiquitin thioesterase OTUB1	<i>Otub1</i>	1.03	Down	2404850000	2478925000
Ubiquitin-40S ribosomal protein S27a;Ubiquitin-40S ribosomal protein S27a;Ubiquitin-60S ribosomal protein L40;Ubiquitin-60S ribosomal protein L40;Polyubiquitin-B;Ubiquitin;Polyubiquitin-C;Ubiquitin;Ubiquitin-related	<i>Rps27a;Uba52;Ubb;Ubc</i>	1.12	Down	13056500000	14682500000
Ubiquitin-conjugating enzyme E2 D2	<i>Ube2d2</i>	1.07	Up	822830000	769910000
Ubiquitin-conjugating enzyme E2 N	<i>Ube2n</i>	1.00	Down	2985775000	2995875000
Ubiquitin-conjugating enzyme E2 variant 2	<i>Ube2v2</i>	1.08	Up	1087542500	1010097500
Ubiquitin-conjugating enzyme E2 Z	<i>Ube2z</i>	1.37	Up	218840000	159480000
Ubiquitin-fold modifier-conjugating enzyme 1	<i>Ufc1</i>	1.02	Up	250720000	246913333.3
Ubiquitin-like domain-containing CTD phosphatase 1	<i>Ublcp1</i>	1.01	Up	498237500	491237500
Ubiquitin-like modifier-activating enzyme 1	<i>Uba1</i>	1.01	Up	15074000000	14944000000

Ubiquitin-like protein 4A	<i>Ubl4a</i>	1.19	Down	158355000	188377500
Ubiquitin-like-conjugating enzyme ATG3	<i>Atg3</i>	1.09	Up	138110000	126900000
UBX domain-containing protein 1	<i>Ubxn1</i>	1.13	Up	232557500	205085000
UBX domain-containing protein 4	<i>Ubxn4</i>	1.05	Down	169940000	179250000
UDP-glucose 4-epimerase	<i>Gale</i>	1.22	Up	420020000	345370000
UDP-glucose 6-dehydrogenase	<i>Ugdh</i>	1.42	Up	110595000	77697000
UDP-glucose:glycoprotein glucosyltransferase 1	<i>Ugg1</i>	1.01	Down	921495000	933007500
UDP-N-acetylglucosamine--peptide N-acetylglucosaminyltransferase 110 kDa subunit	<i>Ogt</i>	1.13	Up	653770000	579725000
UMP-CMP kinase	<i>Cmpk1</i>	1.01	Down	1187475000	1200650000
Uncharacterized protein C12orf43 homolog	N/A	1.06	Down	113100000	120165000
Uncharacterized protein C6orf136 homolog	N/A	1.01	Down	53788000	54112000
Unconventional myosin-Ib	<i>Myo1b</i>	1.22	Up	133962500	109612500
Unconventional myosin-Va	<i>Myo5a</i>	1.04	Up	1928725000	1853900000
UPF0160 protein MYG1, mitochondrial	<i>Myg1</i>	1.09	Up	214400000	196640000
UPF0562 protein C7orf55 homolog	<i>LOC108099353</i>	1.14	Down	54016000	61316333.33
UPF0587 protein C1orf123 homolog	N/A	1.14	Up	65202000	57350000
UPF0598 protein C8orf82 homolog	N/A	1.20	Up	115908750	96206000
UPF0696 protein C11orf68 homolog	<i>Bles03</i>	1.11	Down	187760000	207790000
Up-regulated during skeletal muscle growth protein 5	<i>Usmg5</i>	1.09	Down	1394642500	1522575000
Urea transporter 1	<i>Slc14a1</i>	1.75	Up	367257500	209727500
UV excision repair protein RAD23 homolog B	<i>Rad23b</i>	1.03	Up	305842500	297020000
Vacuolar protein sorting-associated protein 26A	<i>Vps26a</i>	1.19	Up	138732500	116463250
Vacuolar protein sorting-associated protein 28 homolog	<i>Vps28</i>	1.29	Up	156110000	121356666.7
Vacuolar protein sorting-associated protein 29	<i>Vps29</i>	1.08	Up	577587500	532382500
Vacuolar protein sorting-associated protein 33A	<i>Vps33a</i>	1.40	Down	64095000	89625000
Vacuolar protein sorting-associated protein 33B	<i>Vps33b</i>	1.28	Up	60992000	47815000
Vacuolar protein sorting-associated protein 45	<i>Vps45</i>	1.16	Up	305176666.7	264075000
Vacuolar protein sorting-associated protein 4A	<i>Vps4a</i>	1.01	Down	316662500	319947500
Vacuole membrane protein 1	<i>Vmp1</i>	1.24	Up	101030000	81744000
Valine--tRNA ligase	<i>Vars</i>	1.07	Up	1804525000	1690300000
Very long-chain specific acyl-CoA dehydrogenase, mitochondrial	<i>Acadvl</i>	1.11	Down	238315000	265570000
Very-long-chain 3-oxoacyl-CoA reductase	<i>Hsd17b12</i>	1.51	Up	283850000	187745000
Very-long-chain enoyl-CoA reductase	<i>Tecr</i>	1.09	Up	898845000	822965000
Vesicle-associated membrane protein 2	<i>Vamp2</i>	1.22	Up	9263825000	7604325000
Vesicle-associated membrane protein-associated protein A	<i>Vapa</i>	1.14	Down	2392500000	2715575000
Vesicle-associated membrane protein-associated protein B	<i>Vapb</i>	1.05	Up	1230507500	1171680000
Vesicle-fusing ATPase	<i>Nsf</i>	1.06	Up	36787000000	34569000000
Vesicle-trafficking protein SEC22b	<i>Sec22b</i>	1.11	Up	637600000	573762500
Vesicular acetylcholine transporter	<i>Slc18a3</i>	1.50	Up	129949666.7	86501500
Vesicular glutamate transporter 1	<i>Slc17a7</i>	1.07	Down	1148925000	1225775000
Vesicular inhibitory amino acid transporter	<i>Slc32a1</i>	1.02	Down	3696300000	3781900000
Vigilin	<i>Hdlbp</i>	1.01	Up	949707500	944950000
Vimentin	<i>Vim</i>	1.01	Up	55972000000	55646250000
Vinculin	<i>Vcl</i>	1.07	Up	1393850000	1300425000
Visinin-like protein 1	<i>Vsnl1</i>	1.01	Up	1012837500	1001747500

Vitamin K epoxide reductase complex subunit 1-like protein 1	<i>Vkorc1l1</i>	1.05	Up	239882500	227992500
Voltage-dependent anion-selective channel protein 1	<i>Vdac1</i>	1.00	Up	36267500000	36119000000
Voltage-dependent anion-selective channel protein 2	<i>Vdac2</i>	1.06	Up	10400425000	9768250000
Voltage-dependent anion-selective channel protein 3	<i>Vdac3</i>	1.05	Up	9989125000	9532000000
Voltage-dependent calcium channel subunit alpha-2/delta-1;Voltage-dependent calcium channel subunit alpha-2-1;Voltage-dependent calcium channel subunit delta-1	<i>Cacna2d1</i>	1.12	Up	579695000	518835000
Voltage-dependent calcium channel subunit alpha-2/delta-2;Voltage-dependent calcium channel subunit alpha-2-2;Voltage-dependent calcium channel subunit delta-2	<i>Cacna2d2</i>	1.17	Up	1132682500	967927500
Voltage-gated potassium channel subunit beta-2	<i>Kcnab2</i>	1.13	Down	125685000	142492500
V-type proton ATPase 116 kDa subunit a isoform 1	<i>Atp6v0a1</i>	1.11	Up	12073750000	10919000000
V-type proton ATPase 16 kDa proteolipid subunit	<i>Atp6v0c</i>	1.04	Down	2727625000	2846300000
V-type proton ATPase subunit B, brain isoform	<i>Atp6v1b2</i>	1.08	Up	15493000000	14403750000
V-type proton ATPase subunit C 1	<i>Atp6v1c1</i>	1.02	Up	4043350000	3958725000
V-type proton ATPase subunit E 1	<i>Atp6v1e1</i>	1.24	Down	5877350000	7277675000
V-type proton ATPase subunit F	<i>Atp6v1f</i>	1.07	Up	418135000	392235000
V-type proton ATPase subunit S1	<i>Atp6ap1</i>	1.02	Down	501245000	510790000
WD repeat-containing protein 1	<i>Wdr1</i>	1.04	Up	7641625000	7334450000
WD repeat-containing protein 44	<i>Wdr44</i>	1.28	Down	62067000	79526750
WD repeat-containing protein 5	<i>Wdr5</i>	1.02	Down	383645000	389910000
WD repeat-containing protein 6	<i>Wdr6</i>	1.92	Down	10836000	20762000
WD repeat-containing protein 61;WD repeat-containing protein 61, N-terminally processed	<i>Wdr61</i>	1.09	Down	310337500	339242500
WD repeat-containing protein 7	<i>Wdr7</i>	1.07	Up	1715100000	1609525000
WD repeat-containing protein 89	<i>Wdr89</i>	1.13	Down	104470000	118205000
WD40 repeat-containing protein SMU1;WD40 repeat-containing protein SMU1, N-terminally processed	<i>Smu1</i>	1.37	Down	448995000	615107500
Wiskott-Aldrich syndrome protein family member 1	<i>Wasf1</i>	1.09	Down	75764000	82269750
WW domain-binding protein 11	<i>Wbp11</i>	1.11	Up	122970000	110304000
WW domain-binding protein 2	<i>Wbp2</i>	1.00	Up	661360000	659000000
Xaa-Pro aminopeptidase 1;Xaa-Pro aminopeptidase 1, N-terminally processed	<i>Xpnpep1</i>	1.06	Up	829977500	784485000
Xaa-Pro dipeptidase	<i>Pepd</i>	1.07	Up	886640000	828695000
Y-box-binding protein 3	<i>Ybx3</i>	1.03	Down	51431000	53194000
Zinc finger protein 22	<i>Znf22</i>	1.47	Up	45265666.67	30708000
Zinc finger protein 652	<i>Znf652</i>	1.63	Down	7768200	12693000
Zinc finger Ran-binding domain-containing protein 2	<i>Zranb2</i>	1.02	Up	79320000	77915000
Zinc finger RNA-binding protein	<i>Zfr</i>	1.27	Down	271942500	344887500
Zinc phosphodiesterase ELAC protein 2	<i>Elac2</i>	1.01	Up	36486000	36055000
ZW10 interactor	<i>Zwint</i>	1.08	Up	208970000	194270000