

Symbol	Title	Control	T09	T-Test
	Upregulated by TO901317			
39148	membrane-associated ring finger (C3HC4) 7	1286 +/- 19	1384 +/- 26	0.009347552
39328	septin 3	322 +/- 9	395 +/- 10	0.000108143
39329	septin 4	4002 +/- 108	4702 +/- 109	0.000446792
39332	septin 7	10441 +/- 161	10984 +/- 128	0.021738016
Cyp2d22	cytochrome P450, family 2, subfamily d, polypeptide 22	579 +/- 18	640 +/- 14	0.018733875
A2bp1	Ataxin 2 binding protein 1	6089 +/- 125	6870 +/- 162	0.002234924
AA536749	Expressed sequence AA536749	47 +/- 1	54 +/- 2	0.019816631
Aaas	achalasia, adrenocortical insufficiency, alacrimia	309 +/- 6	351 +/- 10	0.002873443
Abca1	ATP-binding cassette, sub-family A (ABC1), member 1	1992 +/- 212	4896 +/- 208	1.22745E-07
Abca3	ATP-binding cassette, sub-family A (ABC1), member 3	1468 +/- 33	1585 +/- 25	0.014868698
Abcb6	ATP-binding cassette, sub-family B (MDR/TAP), member 6	424 +/- 10	467 +/- 11	0.01312849
Abcf3	ATP-binding cassette, sub-family F (GCN20), member 3	858 +/- 15	916 +/- 20	0.034491976
Abcg1	ATP-binding cassette, sub-family G (WHITE), member 1	345 +/- 16	564 +/- 23	3.21083E-06
Abhd13	abhydrolase domain containing 13	368 +/- 6	394 +/- 6	0.010611221
Abhd14a	abhydrolase domain containing 14A	805 +/- 24	889 +/- 28	0.041441332
Abi1	abl-interactor 1	3748 +/- 49	4032 +/- 80	0.012785442
Abi2	abl-interactor 2	4612 +/- 71	4990 +/- 81	0.003558563
Acaca	Acetyl-Coenzyme A carboxylase alpha	94 +/- 4	109 +/- 4	0.023381626
Acads	acyl-Coenzyme A dehydrogenase, short chain	191 +/- 4	216 +/- 6	0.004816965
Acat1	acetyl-Coenzyme A acetyltransferase 1	607 +/- 16	703 +/- 17	0.001188893
Ache	acetylcholinesterase	579 +/- 10	652 +/- 17	0.004962606
Aco2	aconitase 2, mitochondrial	5815 +/- 61	6070 +/- 62	0.011783666
Acpl2	acid phosphatase-like 2	355 +/- 22	469 +/- 25	0.003794621
Acs11	acyl-CoA synthetase long-chain family member 1	710 +/- 9	821 +/- 17	0.000179559
Actb	actin, beta, cytoplasmic	17608 +/- 584	19561 +/- 357	0.014919281
Actg1	actin, gamma, cytoplasmic 1	16079 +/- 331	17793 +/- 295	0.002087607
Actr1b	ARP1 actin-related protein 1 homolog B (yeast)	845 +/- 15	916 +/- 22	0.020565119

Acvrl1	activin A receptor, type II-like 1	63 +/- 4	82 +/- 5	0.005335514
Acyp2	acylphosphatase 2, muscle type	1194 +/- 14	1276 +/- 28	0.027189333
Adat1	adenosine deaminase, tRNA-specific 1	94 +/- 9	126 +/- 10	0.031315542
Adck2	aarF domain containing kinase 2	322 +/- 5	361 +/- 12	0.015221689
Adh5	alcohol dehydrogenase 5 (class III), chi polypeptide	2165 +/- 24	2339 +/- 43	0.005114526
Adnp	activity-dependent neuroprotective protein	5132 +/- 40	5395 +/- 37	0.000406347
Adrm1	adhesion regulating molecule 1	500 +/- 21	623 +/- 45	0.033163361
Adssl1	adenylosuccinate synthetase like 1	373 +/- 7	414 +/- 16	0.041378017
Aes	amino-terminal enhancer of split	4775 +/- 54	5190 +/- 144	0.024770831
Agt	angiotensinogen (serpin peptidase inhibitor, clade A, member 8)	523 +/- 40	645 +/- 36	0.040381796
Ahcy	S-adenosylhomocysteine hydrolase	951 +/- 19	1034 +/- 24	0.01874055
Ahr	aryl-hydrocarbon receptor	416 +/- 8	442 +/- 9	0.050509037
AI450540	expressed sequence AI450540	187 +/- 7	216 +/- 9	0.027402333
AI834762	expressed sequence AI834762	331 +/- 11	373 +/- 7	0.007965225
AI842396	Expressed sequence AI842396	36 +/- 2	46 +/- 3	0.016923886
AI854517	expressed sequence AI854517	355 +/- 16	449 +/- 33	0.026824804
AI956758	expressed sequence AI956758	630 +/- 22	693 +/- 15	0.035013345
Aifm2	apoptosis-inducing factor, mitochondrion-associated 2	78 +/- 7	104 +/- 6	0.012966442
Aim1l	absent in melanoma 1-like	80 +/- 5	101 +/- 6	0.02454379
AK220484	cDNA sequence AK220484	228 +/- 9	275 +/- 14	0.017249158
Ak5	adenylate kinase 5	5944 +/- 107	6654 +/- 114	0.000580095
Akap2	A kinase (PRKA) anchor protein 2	1334 +/- 20	1415 +/- 30	0.045380866
Akap8	A kinase (PRKA) anchor protein 8	1510 +/- 22	1629 +/- 31	0.00866222
Akr1a4	aldo-keto reductase family 1, member A4 (aldehyde reductase)	7986 +/- 94	8665 +/- 163	0.004024088
Akr1e1	aldo-keto reductase family 1, member E1	67 +/- 3	77 +/- 3	0.049741879
Akt1	thymoma viral proto-oncogene 1	2056 +/- 62	2286 +/- 44	0.010158679
Alas1	aminolevulinic acid synthase 1	125 +/- 13	163 +/- 12	0.045295083
Aldh18a1	aldehyde dehydrogenase 18 family, member A1	174 +/- 11	231 +/- 22	0.039737045
Aldh9a1	aldehyde dehydrogenase 9, subfamily A1	1441 +/- 46	1611 +/- 50	0.025083863

Aldoa	aldolase 1, A isoform	13700 +/- 369	14998 +/- 252	0.012867359
Aldoc	aldolase 3, C isoform	994 +/- 36	1152 +/- 29	0.004876731
Alg2	asparagine-linked glycosylation 2 homolog (yeast, alpha-1,3-mannosyltransferase)	4719 +/- 95	5061 +/- 50	0.009112429
Alkbh3	alkB, alkylation repair homolog 3 (E. coli)	564 +/- 14	623 +/- 12	0.008222489
Alox8	arachidonate 8-lipoxygenase	80 +/- 4	91 +/- 2	0.047707269
Als2cr2	amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 2 (human)	172 +/- 9	205 +/- 5	0.007858662
Amdhd2	amidohydrolase domain containing 2	197 +/- 8	228 +/- 11	0.041188646
Amigo1	adhesion molecule with Ig like domain 1	272 +/- 9	307 +/- 7	0.009011145
Amn	amnionless	332 +/- 18	460 +/- 43	0.0222236
Amy1	amylase 1, salivary	538 +/- 16	633 +/- 28	0.01359419
Anapc5	anaphase-promoting complex subunit 5	4484 +/- 84	4703 +/- 44	0.042297904
Anapc7	anaphase promoting complex subunit 7	1194 +/- 31	1339 +/- 50	0.031189778
Angel2	angel homolog 2 (Drosophila)	1158 +/- 16	1223 +/- 24	0.047102279
Angptl1	angiopoietin-like 1	34 +/- 3	43 +/- 3	0.03821859
Ank	progressive ankylosis	5874 +/- 84	6230 +/- 85	0.011534043
Ankrd11	ankyrin repeat domain 11	625 +/- 18	684 +/- 19	0.041947229
Ankrd12	ankyrin repeat domain 12	1054 +/- 22	1179 +/- 47	0.037672839
Ankrd37	ankyrin repeat domain 37	157 +/- 4	186 +/- 9	0.017214981
Anxa7	annexin A7	186 +/- 8	220 +/- 13	0.045073715
Ap1g2	adaptor protein complex AP-1, gamma 2 subunit	149 +/- 5	180 +/- 5	0.000300831
Apc2	Adenomatosis polyposis coli 2	187 +/- 9	218 +/- 11	0.044367234
Apex1	apurinic/apyrimidinic endonuclease 1	1517 +/- 31	1757 +/- 49	0.001852824
Aph1a	anterior pharynx defective 1a homolog (C. elegans)	158 +/- 7	194 +/- 11	0.018686709
Api5	apoptosis inhibitor 5	97 +/- 4	121 +/- 4	0.001200379
Aplp1	amyloid beta (A4) precursor-like protein 1	6717 +/- 93	7111 +/- 116	0.019842472
Apoc1	apolipoprotein C-I	184 +/- 25	348 +/- 33	0.001589758
Apod	apolipoprotein D	7126 +/- 585	10835 +/- 427	0.000230817
Apoe	apolipoprotein E	13928 +/- 154	16205 +/- 183	7.56093E-07
App	amyloid beta (A4) precursor protein	14830 +/- 448	15963 +/- 232	0.047069325

Appbp1	amyloid beta precursor protein binding protein 1	2490 +/- 64	2793 +/- 98	0.024734709
Aqp11	aquaporin 11	299 +/- 16	382 +/- 14	0.002108842
Ar	androgen receptor	239 +/- 5	259 +/- 8	0.053249545
Ard1	N-acetyltransferase ARD1 homolog (<i>S. cerevisiae</i>)	483 +/- 17	533 +/- 15	0.041939162
Arf4	ADP-ribosylation factor 4	347 +/- 3	412 +/- 10	0.000193217
Arhgef1	Rho guanine nucleotide exchange factor (GEF) 1	448 +/- 11	493 +/- 16	0.041987198
Arih2	ariadne homolog 2 (<i>Drosophila</i>)	737 +/- 24	820 +/- 15	0.012178155
Arl6ip1	ADP-ribosylation factor-like 6 interacting protein 1	4891 +/- 104	5763 +/- 243	0.008744473
Arl6ip4	ADP-ribosylation factor-like 6 interacting protein 4	1322 +/- 25	1524 +/- 24	6.58706E-05
Armc5	armadillo repeat containing 5	214 +/- 11	268 +/- 4	0.001243585
Armc9	armadillo repeat containing 9	182 +/- 5	233 +/- 16	0.013723335
Armcx4	armadillo repeat containing, X-linked 4	1267 +/- 30	1365 +/- 27	0.028789715
Arpc1a	actin related protein 2/3 complex, subunit 1A	3177 +/- 67	3413 +/- 59	0.019753528
Arpc4	actin related protein 2/3 complex, subunit 4	212 +/- 10	255 +/- 10	0.01097848
Arpc5l	actin related protein 2/3 complex, subunit 5-like	3810 +/- 43	3976 +/- 26	0.006680923
Arrdc4	arrestin domain containing 4	183 +/- 3	229 +/- 6	5.87949E-05
Arsb	Arylsulfatase B	80 +/- 5	102 +/- 4	0.003823324
Asahl	N-acylsphingosine amidohydrolase (acid ceramidase)-like	188 +/- 4	222 +/- 9	0.010487043
Asb5	ankyrin repeat and SOCs box-containing protein 5	46 +/- 4	60 +/- 4	0.024875752
Asl	argininosuccinate lyase	377 +/- 8	416 +/- 12	0.018646138
Aste1	asteroid homolog 1 (<i>Drosophila</i>)	38 +/- 10	81 +/- 7	0.00484402
Asxl3	additional sex combs like 3 (<i>Drosophila</i>)	189 +/- 3	218 +/- 6	0.001610701
Atg4c	autophagy-related 4C (yeast)	342 +/- 12	386 +/- 17	0.054441183
Atp11b	ATPase, Class VI, type 11B	1441 +/- 37	1640 +/- 32	0.001325822
Atp13a2	ATPase type 13A2	1504 +/- 21	1654 +/- 32	0.002085556
Atp1b1	ATPase, Na ⁺ /K ⁺ transporting, beta 1 polypeptide	20855 +/- 174	22540 +/- 359	0.001763151
Atp5b	ATP synthase, H ⁺ transporting mitochondrial F1 complex, beta subunit	14071 +/- 120	15025 +/- 277	0.010916238
Atp5h	ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit d	8876 +/- 149	9446 +/- 212	0.046979824
Atp5j	ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit F	8258 +/- 151	8904 +/- 182	0.018060822

Atp5k	ATP synthase, H+ transporting, mitochondrial F1F0 complex, subunit e	7961 +/- 148	8561 +/- 234	0.051460414
Atp6v0c	ATPase, H+ transporting, lysosomal V0 subunit C	14568 +/- 257	15734 +/- 376	0.024859166
Atp6v1d	ATPase, H+ transporting, lysosomal V1 subunit D	6309 +/- 75	6669 +/- 123	0.031277819
Atp9a	ATPase, class II, type 9A	2946 +/- 36	3152 +/- 51	0.006274064
Atpaf1	ATP synthase mitochondrial F1 complex assembly factor 1	1324 +/- 23	1468 +/- 25	0.001015437
Atpif1	ATPase inhibitory factor 1	4834 +/- 123	5398 +/- 97	0.003300769
Atxn10	ataxin 10	10952 +/- 110	11986 +/- 195	0.001096831
Atxn2	ataxin 2	965 +/- 14	1005 +/- 12	0.053969697
AU015438	expressed sequence AU015438	11 +/- 3	20 +/- 1	0.013612848
AU015603	expressed sequence AU015603	185 +/- 6	206 +/- 7	0.039561791
AU042671	expressed sequence AU042671	1920 +/- 35	2056 +/- 43	0.027846498
Auts2	autism susceptibility candidate 2	338 +/- 16	392 +/- 13	0.022551872
AW050198	expressed sequence AW050198	242 +/- 6	281 +/- 10	0.006658201
AW209491	expressed sequence AW209491	926 +/- 18	989 +/- 16	0.023165042
AW551984	expressed sequence AW551984	197 +/- 16	266 +/- 21	0.019792051
B3galt4	UDP-Gal:betaGalNAc beta 1,3-galactosyltransferase, polypeptide 4	212 +/- 4	248 +/- 5	0.000171292
B3gat1	beta-1,3-glucuronyltransferase 1 (glucuronosyltransferase P)	4315 +/- 65	4653 +/- 98	0.015857877
Bai2	brain-specific angiogenesis inhibitor 2	4986 +/- 108	5424 +/- 119	0.016493056
Bai3	Brain-specific angiogenesis inhibitor 3	24 +/- 5	38 +/- 2	0.038687496
Bat3	HLA-B-associated transcript 3	1549 +/- 41	1672 +/- 28	0.02770092
BC004044	cDNA sequence BC004044	537 +/- 13	619 +/- 21	0.006440585
BC005471	cDNA sequence BC005471	509 +/- 15	597 +/- 26	0.013491374
BC006662	cDNA sequence BC006662	514 +/- 11	558 +/- 11	0.011419733
BC008163	cDNA sequence BC008163	1050 +/- 24	1133 +/- 25	0.031315413
BC023055	cDNA sequence BC023055	1404 +/- 21	1481 +/- 19	0.015552982
BC028801	cDNA sequence BC028801	997 +/- 35	1128 +/- 30	0.013296494
BC031353	cDNA sequence BC031353	745 +/- 10	806 +/- 16	0.008797131
BC033915	cDNA sequence BC033915	729 +/- 27	834 +/- 23	0.010913754
BC034204	cDNA sequence BC034204	225 +/- 11	258 +/- 4	0.017248987

BC035954	cDNA sequence BC035954	73 +/- 4	93 +/- 7	0.030939113
BC037034	cDNA sequence BC037034	431 +/- 9	492 +/- 12	0.002041911
BC057552	cDNA sequence BC057552	298 +/- 10	356 +/- 10	0.001424833
BC060631	cDNA sequence BC060631	394 +/- 7	441 +/- 14	0.010539036
BC068157	cDNA sequence BC068157	1351 +/- 48	1478 +/- 32	0.047448483
Bcas3	breast carcinoma amplified sequence 3	605 +/- 11	677 +/- 18	0.006507493
Bckdk	branched chain ketoacid dehydrogenase kinase	561 +/- 10	597 +/- 13	0.044716476
Becn1	beclin 1 (coiled-coil, myosin-like BCL2-interacting protein)	111 +/- 7	133 +/- 3	0.015705812
Bet1l	blocked early in transport 1 homolog (S. cerevisiae)-like	360 +/- 12	410 +/- 16	0.02643987
Bnip3l	BCL2/adenovirus E1B interacting protein 3-like	2772 +/- 40	2953 +/- 55	0.019943609
Bola1	bolA-like 1 (E. coli)	507 +/- 23	578 +/- 25	0.053286767
Bola2	bolA-like 2 (E. coli)	920 +/- 28	1014 +/- 29	0.035847608
Brca1	breast cancer 1	44 +/- 2	54 +/- 3	0.031049608
Brcc3	BRCA1/BRCA2-containing complex, subunit 3	141 +/- 4	166 +/- 6	0.004582785
Brd2	bromodomain containing 2	1898 +/- 48	2164 +/- 39	0.000735716
Brd8	bromodomain containing 8	376 +/- 17	435 +/- 13	0.017769167
Brms1	breast cancer metastasis-suppressor 1	135 +/- 8	172 +/- 13	0.039997677
Bruno15	bruno-like 5, RNA binding protein (Drosophila)	6976 +/- 143	7515 +/- 160	0.025244473
Btbd5	BTB (POZ) domain containing 5	19 +/- 2	27 +/- 2	0.039715547
Btf3	basic transcription factor 3	3158 +/- 61	3480 +/- 76	0.005569391
Btf3l4	basic transcription factor 3-like 4	515 +/- 4	571 +/- 4	3.39778E-07
Btg1	B-cell translocation gene 1, anti-proliferative	1940 +/- 70	2194 +/- 79	0.031849826
C1qbp	complement component 1, q subcomponent binding protein	2363 +/- 26	2584 +/- 37	0.000354391
C78760	expressed sequence C78760	140 +/- 5	169 +/- 9	0.019600216
C78893	expressed sequence C78893	82 +/- 4	105 +/- 5	0.001900218
C79248	expressed sequence C79248	760 +/- 25	867 +/- 34	0.025144127
C80068	expressed sequence C80068	219 +/- 12	266 +/- 18	0.05098507
C80197	expressed sequence C80197	78 +/- 5	96 +/- 6	0.035836469
C80913	expressed sequence C80913	2126 +/- 56	2347 +/- 33	0.0053724

C85699	expressed sequence C85699	48 +/- 2	59 +/- 3	0.019282714
C86595	expressed sequence C86595	133 +/- 7	162 +/- 10	0.041685243
C8g	complement component 8, gamma subunit	36 +/- 3	51 +/- 6	0.039745828
Cabc1	chaperone, ABC1 activity of bc1 complex like (S. pombe)	810 +/- 7	874 +/- 13	0.001943992
Cacng5	calcium channel, voltage-dependent, gamma subunit 5	72 +/- 4	93 +/- 5	0.004685433
Cadps	Ca ²⁺ -dependent activator protein for secretion	1039 +/- 52	1215 +/- 51	0.030032056
Calm2	calmodulin 2	16889 +/- 392	18496 +/- 407	0.013891191
Camk2d	Calcium/calmodulin-dependent protein kinase II, delta	20 +/- 3	30 +/- 3	0.026656801
Camk2n1	calcium/calmodulin-dependent protein kinase II inhibitor 1	14789 +/- 246	15564 +/- 215	0.035718189
Capzb	capping protein (actin filament) muscle Z-line, beta	3284 +/- 66	3569 +/- 114	0.05254442
Casp9	caspase 9	385 +/- 7	419 +/- 11	0.022653193
Ccdc106	coiled-coil domain containing 106	606 +/- 10	715 +/- 27	0.004968179
Ccdc109a	coiled-coil domain containing 109A	769 +/- 46	925 +/- 40	0.023327703
Ccdc28a	coiled-coil domain containing 28A	637 +/- 21	706 +/- 21	0.035887108
Ccdc84	coiled-coil domain containing 84	88 +/- 4	109 +/- 5	0.003830584
Ccdc86	coiled-coil domain containing 86	174 +/- 5	199 +/- 8	0.01806888
Ccne1	cyclin E1	208 +/- 7	251 +/- 7	0.001085231
Ccn1	Cyclin L1	23 +/- 2	33 +/- 1	0.001217736
Ccr1	Chemokine (C-C motif) receptor-like 1	56 +/- 3	81 +/- 3	0.000149386
Cct3	chaperonin subunit 3 (gamma)	3581 +/- 90	3804 +/- 44	0.05319982
Cct6a	chaperonin subunit 6a (zeta)	4613 +/- 64	4839 +/- 63	0.02588671
Cd47	CD47 antigen (Rh-related antigen, integrin-associated signal transducer)	3988 +/- 106	4424 +/- 66	0.005925199
Cd93	CD93 antigen	108 +/- 6	133 +/- 9	0.044604695
Cd97	CD97 antigen	188 +/- 5	219 +/- 6	0.001270701
Cdc14a	CDC14 cell division cycle 14 homolog A (S. cerevisiae)	36 +/- 4	51 +/- 3	0.007939245
Cdc40	cell division cycle 40 homolog (yeast)	220 +/- 15	279 +/- 17	0.02390687
Cdc42	cell division cycle 42 homolog (S. cerevisiae)	6721 +/- 128	7210 +/- 131	0.01928234
Cdc42ep4	CDC42 effector protein (Rho GTPase binding) 4	427 +/- 18	488 +/- 14	0.019589969
Cdk5rap3		664 +/- 22	784 +/- 37	0.016736034

Cdkl3	cyclin-dependent kinase-like 3	96 +/- 5	115 +/- 6	0.028751208
Cdon	cell adhesion molecule-related/down-regulated by oncogenes	391 +/- 8	452 +/- 15	0.005640976
Cdv3	carnitine deficiency-associated gene expressed in ventricle 3	133 +/- 8	156 +/- 6	0.035944283
Cebpz	CCAAT/enhancer binding protein zeta	92 +/- 8	135 +/- 8	0.001956827
Cend1	cell cycle exit and neuronal differentiation 1	2381 +/- 73	2661 +/- 94	0.034754907
Cep57	centrosomal protein 57	293 +/- 9	334 +/- 15	0.040356471
Cetn3	centrin 3	1665 +/- 32	1819 +/- 35	0.00583619
Cfl1	cofilin 1, non-muscle	11382 +/- 226	12059 +/- 168	0.031834426
Cgref1	cell growth regulator with EF hand domain 1	335 +/- 12	368 +/- 9	0.04717383
Chchd7	coiled-coil-helix-coiled-coil-helix domain containing 7	576 +/- 9	629 +/- 11	0.003114211
Chmp7	CHMP family, member 7	1216 +/- 31	1357 +/- 23	0.003014883
Chrac1	chromatin accessibility complex 1	269 +/- 10	315 +/- 14	0.020755862
Chst1	carbohydrate (keratan sulfate Gal-6) sulfotransferase 1	6464 +/- 96	6834 +/- 129	0.039659314
Cirbp	cold inducible RNA binding protein	1087 +/- 45	1432 +/- 98	0.0099716
Cirh1a	cirrhosis, autosomal recessive 1A (human)	1284 +/- 33	1403 +/- 33	0.02346145
Ckb	creatine kinase, brain	11622 +/- 246	12458 +/- 231	0.026709969
Clca1	chloride channel calcium activated 1	36 +/- 3	57 +/- 3	0.00032415
Clcc1	chloride channel CLIC-like 1	88 +/- 7	114 +/- 6	0.013206101
Clec14a	C-type lectin domain family 14, member a	18 +/- 2	25 +/- 3	0.054448815
Cln6	ceroid-lipofuscinosis, neuronal 6	321 +/- 7	373 +/- 18	0.027029484
Clpp	caseinolytic peptidase, ATP-dependent, proteolytic subunit homolog (E. coli)	1482 +/- 30	1608 +/- 23	0.004892607
Cita	clathrin, light polypeptide (Lca)	7850 +/- 84	8200 +/- 51	0.0042269
Cmpk	cytidylate kinase	3987 +/- 68	4218 +/- 75	0.039041874
Cnbp	cellular nucleic acid binding protein	8499 +/- 155	9322 +/- 233	0.012054167
Cnbp2	cellular nucleic acid binding protein 2	14 +/- 2	21 +/- 2	0.049712557
Cnm3	Cyclin M3	439 +/- 54	656 +/- 58	0.017212007
Cntnap5a	Contactin associated protein-like 5A	190 +/- 4	211 +/- 8	0.045227968
Col23a1	procollagen, type XXIII, alpha 1	52 +/- 3	87 +/- 6	0.000703975
Col4a3bp	procollagen, type IV, alpha 3 (Goodpasture antigen) binding protein	3099 +/- 41	3643 +/- 106	0.000940662

Col6a2	procollagen, type VI, alpha 2	223 +/- 14	291 +/- 15	0.005045026
Coq6	coenzyme Q6 homolog (yeast)	290 +/- 15	347 +/- 19	0.034437032
Coq7	demethyl-Q 7	1160 +/- 32	1295 +/- 51	0.04442332
Coro1a	coronin, actin binding protein 1A	1237 +/- 24	1442 +/- 58	0.009086599
Coro1c	coronin, actin binding protein 1C	724 +/- 14	787 +/- 23	0.039254339
Coro7	coronin 7	1981 +/- 51	2195 +/- 59	0.016351022
Cox17	cytochrome c oxidase, subunit XVII assembly protein homolog (yeast)	3272 +/- 45	3489 +/- 51	0.007208687
Cox4i1	cytochrome c oxidase subunit IV isoform 1	14075 +/- 258	15538 +/- 323	0.004106247
Cox5b	cytochrome c oxidase, subunit Vb	8524 +/- 187	9433 +/- 206	0.005696359
Cox6a1	cytochrome c oxidase, subunit VI a, polypeptide 1	15638 +/- 369	17159 +/- 355	0.010136549
Cox6c	cytochrome c oxidase, subunit VIc	13815 +/- 242	14651 +/- 226	0.024468619
Cox7a2	cytochrome c oxidase, subunit VIIa 2	12437 +/- 164	13477 +/- 320	0.015519595
Cox7a2l	cytochrome c oxidase subunit VIIa polypeptide 2-like	2566 +/- 58	2775 +/- 64	0.02921766
Cpa2	carboxypeptidase A2, pancreatic	92 +/- 5	115 +/- 6	0.007537683
Cpe	carboxypeptidase E	17231 +/- 573	18806 +/- 350	0.037648657
Cpeb3	cytoplasmic polyadenylation element binding protein 3	834 +/- 27	955 +/- 14	0.002304294
Cpne2	copine II	524 +/- 23	597 +/- 8	0.017082205
Cpne4	copine IV	25 +/- 6	49 +/- 10	0.051273568
Cpne7	copine VII	1879 +/- 31	2126 +/- 47	0.000922678
Cpt1c	carnitine palmitoyltransferase 1c	2801 +/- 49	2966 +/- 43	0.024331026
Crbn	cereblon	1872 +/- 48	2076 +/- 55	0.016932158
Crebbp	CREB binding protein	1106 +/- 23	1205 +/- 27	0.013624755
Creg1	cellular repressor of E1A-stimulated genes 1	722 +/- 17	782 +/- 20	0.036281825
Crim1	cysteine rich transmembrane BMP regulator 1 (chordin like)	1743 +/- 107	2049 +/- 82	0.041520402
Crsp3	cofactor required for Sp1 transcriptional activation, subunit 3	816 +/- 16	888 +/- 26	0.035878433
Crsp6	cofactor required for Sp1 transcriptional activation, subunit 6	633 +/- 16	700 +/- 20	0.021004106
Cry1	cryptochrome 1 (photolyase-like)	261 +/- 6	307 +/- 17	0.031561111
Cryl1	crystallin, lambda 1	293 +/- 9	336 +/- 15	0.027245747
Crym	crystallin, mu	4350 +/- 143	4825 +/- 54	0.012695547

Csf2rb2	colony stimulating factor 2 receptor, beta 2, low-affinity (granulocyte-macrophage)	57 +/- 4	71 +/- 5	0.046255423
Csnk1d	casein kinase 1, delta	2798 +/- 25	3102 +/- 84	0.00816378
Csrp2bp	Cysteine and glycine-rich protein 2 binding protein	41 +/- 4	53 +/- 4	0.049711521
Cstb	cystatin B	1360 +/- 14	1442 +/- 30	0.032005611
Ctbp1	C-terminal binding protein 1	6095 +/- 78	6492 +/- 80	0.003131077
Cuedc2	CUE domain containing 2	2281 +/- 38	2491 +/- 77	0.03367048
Cugbp1	CUG triplet repeat, RNA binding protein 1	1473 +/- 14	1544 +/- 27	0.039365537
Cul2	cullin 2	396 +/- 9	446 +/- 14	0.010714373
Cuzd1	CUB and zona pellucida-like domains 1	31 +/- 4	43 +/- 4	0.044829691
Cwf19I1	CWF19-like 1, cell cycle control (S. pombe)	271 +/- 8	298 +/- 7	0.027041778
Cyb5r3	cytochrome b5 reductase 3	1183 +/- 40	1317 +/- 24	0.015182816
Cyfp2	cytoplasmic FMR1 interacting protein 2	7574 +/- 122	8197 +/- 87	0.0016818
Cyp4f15	cytochrome P450, family 4, subfamily f, polypeptide 15	632 +/- 34	758 +/- 32	0.01680648
D10Wsu102e	DNA segment, Chr 10, Wayne State University 102, expressed	394 +/- 10	449 +/- 15	0.011424189
D10Wsu52e	DNA segment, Chr 10, Wayne State University 52, expressed	2498 +/- 36	2647 +/- 39	0.01379171
D11Bwg0517e	DNA segment, Chr 11, Brigham & Women's Genetics 0517 expressed	1023 +/- 29	1096 +/- 15	0.04912588
D11Wsu99e	DNA segment, Chr 11, Wayne State University 99, expressed	20 +/- 2	30 +/- 3	0.031283451
D13Wsu50e	DNA segment, Chr 13, Wayne State University 50, expressed	1580 +/- 6	1643 +/- 21	0.020402151
D16Bwg1494e	DNA segment, Chr 16, Brigham & Women's Genetics 1494 expressed	33 +/- 5	54 +/- 4	0.008341669
D17Wsu104e	DNA segment, Chr 17, Wayne State University 104, expressed	228 +/- 7	261 +/- 13	0.045305101
D18Ert653e	DNA segment, Chr 18, ERATO Doi 653, expressed	203 +/- 6	221 +/- 6	0.042943562
D19Wsu12e	DNA segment, Chr 19, Wayne State University 12, expressed	198 +/- 6	214 +/- 4	0.03678115
D2Bwg1423e	DNA segment, Chr 2, Brigham & Women's Genetics 1423 expressed	305 +/- 8	376 +/- 17	0.003392407
D3Ert452e	DNA segment, Chr 3, ERATO Doi 452, expressed	135 +/- 4	150 +/- 4	0.032976867
D6Ert90e	DNA segment, Chr 6, ERATO Doi 90, expressed	25 +/- 4	40 +/- 5	0.046920476
D7Ert715e	DNA segment, Chr 7, ERATO Doi 715, expressed	3521 +/- 233	4123 +/- 112	0.045912724
Daam1	dishevelled associated activator of morphogenesis 1	6944 +/- 115	7612 +/- 191	0.011774651
Dab1	disabled homolog 1 (Drosophila)	605 +/- 13	672 +/- 6	0.001035232
Dach2	dachshund 2 (Drosophila)	54 +/- 5	69 +/- 2	0.019597609

Dapk3	death-associated kinase 3	657 +/- 14	775 +/- 36	0.01284046
Dars2	aspartyl-tRNA synthetase 2 (mitochondrial)	275 +/- 9	315 +/- 9	0.008610074
Dbi	diazepam binding inhibitor	6741 +/- 142	7504 +/- 166	0.003916605
Dbp	D site albumin promoter binding protein	1851 +/- 59	2414 +/- 112	0.001088316
Dbr1	debranching enzyme homolog 1 (<i>S. cerevisiae</i>)	386 +/- 11	501 +/- 24	0.001419361
Dcc	Deleted in colorectal carcinoma	894 +/- 27	968 +/- 19	0.042378727
Dctn5	dynactin 5	468 +/- 59	701 +/- 55	0.011929955
Dctn6	dynactin 6	1576 +/- 37	1751 +/- 46	0.010558504
Ddhd2	DDHD domain containing 2	1660 +/- 14	1717 +/- 13	0.011288354
Ddn	dendrin	11330 +/- 205	11995 +/- 207	0.04010906
Ddx24	DEAD (Asp-Glu-Ala-Asp) box polypeptide 24	2184 +/- 42	2421 +/- 39	0.001012129
Ddx25	DEAD (Asp-Glu-Ala-Asp) box polypeptide 25	1302 +/- 29	1377 +/- 15	0.044229472
Ddx46	DEAD (Asp-Glu-Ala-Asp) box polypeptide 46	213 +/- 11	250 +/- 8	0.017631985
Ddx49	DEAD (Asp-Glu-Ala-Asp) box polypeptide 49	450 +/- 10	554 +/- 27	0.005960071
Ddx56	DEAD (Asp-Glu-Ala-Asp) box polypeptide 56	368 +/- 19	432 +/- 17	0.023505663
Deaf1	deformed epidermal autoregulatory factor 1 (<i>Drosophila</i>)	639 +/- 22	734 +/- 35	0.039410221
Dedd2	death effector domain-containing DNA binding protein 2	175 +/- 4	214 +/- 9	0.002125766
Dek	DEK oncogene (DNA binding)	2354 +/- 46	2568 +/- 62	0.016198139
Dennd1a	DENN/MADD domain containing 1A	793 +/- 26	917 +/- 29	0.007054286
Depdc2	DEP domain containing 2	50 +/- 4	68 +/- 7	0.037738081
Dgat2	diacylglycerol O-acyltransferase 2	1905 +/- 37	2015 +/- 28	0.033985388
Dgcr6	DiGeorge syndrome critical region gene 6	1048 +/- 31	1180 +/- 44	0.028263211
Dgkb	diacylglycerol kinase, beta	5 +/- 2	11 +/- 2	0.052250481
Dgkg	diacylglycerol kinase, gamma	3736 +/- 68	3957 +/- 70	0.04136873
Dgkz	diacylglycerol kinase zeta	10691 +/- 229	11293 +/- 152	0.04840401
Dhx30	DEAH (Asp-Glu-Ala-His) box polypeptide 30	514 +/- 15	563 +/- 12	0.023800252
Dhx32	DEAH (Asp-Glu-Ala-His) box polypeptide 32	614 +/- 15	674 +/- 13	0.009490183
Dido1	death inducer-obliterators 1	329 +/- 8	373 +/- 18	0.047183067
Diras2	DIRAS family, GTP-binding RAS-like 2	8071 +/- 120	8474 +/- 69	0.016345567

Dlgap1	discs, large (Drosophila) homolog-associated protein 1	2684 +/- 62	2897 +/- 44	0.015934851
DIk1	delta-like 1 homolog (Drosophila)	106 +/- 7	148 +/- 12	0.01217777
Dmwd	dystrophia myotonica-containing WD repeat motif	1997 +/- 34	2186 +/- 22	0.000553562
Dmxl2	Dmx-like 2	5541 +/- 81	5776 +/- 64	0.040839228
Dnaja2	DnaJ (Hsp40) homolog, subfamily A, member 2	1203 +/- 16	1273 +/- 17	0.00994133
Dnajb12	DnaJ (Hsp40) homolog, subfamily B, member 12	130 +/- 4	154 +/- 5	0.002488679
Dnajc11	DnaJ (Hsp40) homolog, subfamily C, member 11	517 +/- 16	573 +/- 17	0.032975048
Donson	downstream neighbor of SON	540 +/- 10	586 +/- 17	0.036298467
Dph3	DPH3 homolog (KTI11, <i>S. cerevisiae</i>)	491 +/- 9	533 +/- 13	0.024636257
Dpm1	dolichol-phosphate (beta-D) mannosyltransferase 1	1201 +/- 38	1327 +/- 42	0.04500782
Dpysl4	dihydropyrimidinase-like 4	171 +/- 5	221 +/- 11	0.001540162
Drap1	Dr1 associated protein 1 (negative cofactor 2 alpha)	3436 +/- 78	3740 +/- 61	0.009035611
Drd1ip	dopamine receptor D1 interacting protein	5766 +/- 129	6196 +/- 115	0.026404436
Drg2	developmentally regulated GTP binding protein 2	773 +/- 38	911 +/- 45	0.033647
Dscam	Down syndrome cell adhesion molecule	581 +/- 27	667 +/- 30	0.050063834
Dscr1l2	Down syndrome critical region gene 1-like 2	353 +/- 6	381 +/- 8	0.014983755
Dsg2	desmoglein 2	79 +/- 2	102 +/- 4	0.000505968
Dtymk	deoxythymidylate kinase	729 +/- 16	798 +/- 16	0.00864442
Dusp3	dual specificity phosphatase 3 (vaccinia virus phosphatase VH1-related)	2649 +/- 37	2767 +/- 35	0.035345617
Dut	deoxyuridine triphosphatase	529 +/- 11	567 +/- 13	0.037336215
Dync1i1	dynein cytoplasmic 1 intermediate chain 1	3113 +/- 50	3472 +/- 93	0.006099325
Dyrk1a	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1a	846 +/- 10	897 +/- 19	0.039499664
E4f1	E4F transcription factor 1	250 +/- 11	292 +/- 5	0.005536645
Ears2	glutamyl-tRNA synthetase 2 (mitochondrial)(putative)	113 +/- 8	134 +/- 5	0.047360996
Ebf1	Early B-cell factor 1	44 +/- 6	59 +/- 3	0.050385239
Ebf2	early B-cell factor 2	10 +/- 3	21 +/- 4	0.049325054
Edc4	enhancer of mRNA decapping 4	1150 +/- 31	1272 +/- 35	0.022521166
Edf1	endothelial differentiation-related factor 1	2275 +/- 47	2506 +/- 59	0.009163663
Eef1a1	eukaryotic translation elongation factor 1 alpha 1	20118 +/- 463	22494 +/- 383	0.00187904

Eef1a2	eukaryotic translation elongation factor 1 alpha 2	12287 +/- 242	13153 +/- 307	0.044972875
Eef1b2	eukaryotic translation elongation factor 1 beta 2	5692 +/- 72	5938 +/- 83	0.045380503
Efnb3	ephrin B3	1689 +/- 45	1855 +/- 44	0.019953783
Eftud1	elongation factor Tu GTP binding domain containing 1	11 +/- 3	19 +/- 2	0.031687346
EG241053	predicted gene, EG241053	9974 +/- 248	10837 +/- 248	0.027473448
EG245440	predicted gene, EG245440	263 +/- 9	304 +/- 15	0.040602108
EG328191	Predicted gene, EG328191	178 +/- 8	224 +/- 9	0.001833229
Egfl7	EGF-like domain 7	375 +/- 15	476 +/- 12	0.000128726
Egln1	EGL nine homolog 1 (C. elegans)	1745 +/- 46	1880 +/- 29	0.029101769
Eid1	EP300 interacting inhibitor of differentiation 1	8419 +/- 171	8977 +/- 145	0.027361182
Eid2	EP300 interacting inhibitor of differentiation 2	2682 +/- 45	3004 +/- 54	0.000594595
Eif1	eukaryotic translation initiation factor 1	8553 +/- 147	9207 +/- 163	0.011200078
Eif2ak4	eukaryotic translation initiation factor 2 alpha kinase 4	233 +/- 8	275 +/- 13	0.02172687
Eif2b1	eukaryotic translation initiation factor 2B, subunit 1 (alpha)	638 +/- 14	799 +/- 28	0.00038241
Eif2b3	eukaryotic translation initiation factor 2B, subunit 3	568 +/- 13	647 +/- 15	0.001775301
Eif2s2	eukaryotic translation initiation factor 2, subunit 2 (beta)	3860 +/- 79	4122 +/- 84	0.03889842
Eif3s10	eukaryotic translation initiation factor 3, subunit 10 (theta)	171 +/- 5	195 +/- 2	0.002475976
Eif3s12	eukaryotic translation initiation factor 3, subunit 12	3372 +/- 49	3601 +/- 41	0.003571329
Eif3s3	eukaryotic translation initiation factor 3, subunit 3 (gamma)	3883 +/- 40	4239 +/- 61	0.000387786
Eif3s6	eukaryotic translation initiation factor 3, subunit 6	2702 +/- 51	2981 +/- 27	0.000569393
Eif3s6ip	eukaryotic translation initiation factor 3, subunit 6 interacting protein	2666 +/- 77	2893 +/- 67	0.042922863
Eif4a1	eukaryotic translation initiation factor 4A1	5029 +/- 74	5272 +/- 80	0.043338626
Eif4a2	eukaryotic translation initiation factor 4A2	14944 +/- 324	16386 +/- 201	0.003597223
Eif4a3	eukaryotic translation initiation factor 4A, isoform 3	1387 +/- 14	1554 +/- 52	0.015134311
Eif4b	eukaryotic translation initiation factor 4B	3687 +/- 88	4016 +/- 33	0.00686077
Eif4e2	eukaryotic translation initiation factor 4E member 2	140 +/- 6	171 +/- 4	0.000966484
Eif4ebp1	eukaryotic translation initiation factor 4E binding protein 1	121 +/- 6	142 +/- 3	0.014643815
Eif5	eukaryotic translation initiation factor 5	4711 +/- 97	5207 +/- 60	0.001012018
Elac1	elaC homolog 1 (E. coli)	855 +/- 11	908 +/- 14	0.011839549

Elac2	elaC homolog 2 (E. coli)	309 +/- 5	350 +/- 8	0.001326303
Eln	Elastin	19 +/- 2	34 +/- 4	0.005948926
Elov15	ELOVL family member 5, elongation of long chain fatty acids (yeast)	2759 +/- 83	3130 +/- 81	0.006462722
Elp3	elongation protein 3 homolog (S. cerevisiae)	1259 +/- 10	1336 +/- 24	0.016666801
Eml2	echinoderm microtubule associated protein like 2	1702 +/- 43	1837 +/- 37	0.031823396
Emx2os	empty spiracles homolog 2 (Drosophila) opposite strand	111 +/- 2	138 +/- 6	0.002599873
Enpep	glutamyl aminopeptidase	106 +/- 6	150 +/- 7	0.000551109
Entpd2	ectonucleoside triphosphate diphosphohydrolase 2	489 +/- 9	547 +/- 14	0.003978908
Ep400	E1A binding protein p400	977 +/- 47	1109 +/- 41	0.0534253
Epb4.1	Erythrocyte protein band 4.1	53 +/- 3	64 +/- 2	0.01467056
Eps15l1	epidermal growth factor receptor pathway substrate 15-like 1	536 +/- 17	594 +/- 18	0.033305335
Erb2ip	Erb2 interacting protein	246 +/- 8	281 +/- 11	0.021949904
Ercc4	excision repair cross-complementing rodent repair deficiency, complementation group	194 +/- 7	225 +/- 6	0.003567952
Ergic3	ERGIC and golgi 3	1235 +/- 16	1333 +/- 41	0.051032358
Ewsr1	Ewing sarcoma breakpoint region 1	3493 +/- 77	3865 +/- 24	0.001601016
Exoc1	exocyst complex component 1	1032 +/- 22	1089 +/- 12	0.039728991
Exoc5	exocyst complex component 5	2120 +/- 27	2203 +/- 25	0.039054716
Exoc6	exocyst complex component 6	101 +/- 2	138 +/- 7	0.000539103
Exosc10	exosome component 10	1126 +/- 16	1189 +/- 24	0.052000175
Exosc8	exosome component 8	741 +/- 10	812 +/- 15	0.002220356
Fads1	fatty acid desaturase 1	3511 +/- 90	3824 +/- 45	0.010404753
Fads2	fatty acid desaturase 2	1883 +/- 67	2312 +/- 42	0.000167327
Farsla	phenylalanine-tRNA synthetase-like, alpha subunit	67 +/- 3	102 +/- 8	0.003396025
Fasn	fatty acid synthase	2677 +/- 60	3486 +/- 48	1.18693E-07
Fau	Finkel-Biskis-Reilly murine sarcoma virus (FBR-MuSV) ubiquitously expressed (fox der	8742 +/- 190	9541 +/- 242	0.021988989
Fbxl21	F-box and leucine-rich repeat protein 21	47 +/- 5	67 +/- 5	0.01536382
Fbxo7	F-box protein 7	706 +/- 15	885 +/- 29	0.000268037
Fbxo9	f-box protein 9	3099 +/- 113	3415 +/- 45	0.028529266
Fbxw11	F-box and WD-40 domain protein 11	9488 +/- 159	10345 +/- 228	0.009467596

Fbxw2	F-box and WD-40 domain protein 2	577 +/- 10	648 +/- 14	0.00115102
Fdxr	ferredoxin reductase	124 +/- 7	145 +/- 4	0.032307935
Fem1a	feminization 1 homolog a (C. elegans)	582 +/- 10	618 +/- 12	0.041384023
Fgd5	FYVE, RhoGEF and PH domain containing 5	124 +/- 4	155 +/- 11	0.024133868
Fgfbp3	fibroblast growth factor binding protein 3	244 +/- 7	269 +/- 6	0.013135403
Figf	c-fos induced growth factor	209 +/- 6	246 +/- 13	0.023416619
Fis1	fission 1 (mitochondrial outer membrane) homolog (yeast)	2733 +/- 31	2946 +/- 66	0.015648352
Fkbp3	FK506 binding protein 3	2400 +/- 49	2665 +/- 63	0.005332517
Flnb	Filamin, beta	1052 +/- 52	1244 +/- 49	0.018854677
Fn3k	fructosamine 3 kinase	666 +/- 25	733 +/- 14	0.039168035
Fnbp4	formin binding protein 4	718 +/- 6	786 +/- 13	0.000698212
Foxn2	forkhead box N2	37 +/- 3	51 +/- 6	0.051621038
Foxo1	forkhead box O1	751 +/- 12	814 +/- 18	0.015629281
Foxred1	FAD-dependent oxidoreductase domain containing 1	363 +/- 13	401 +/- 10	0.036184645
Frk	fyn-related kinase	13 +/- 2	23 +/- 3	0.041970583
Fstl1	follistatin-like 1	884 +/- 16	982 +/- 28	0.011436905
Fstl5	follistatin-like 5	399 +/- 11	445 +/- 17	0.043883694
Fth1	ferritin heavy chain 1	21937 +/- 378	23981 +/- 388	0.002334364
Fxc1	fractured callus expressed transcript 1	2025 +/- 30	2193 +/- 59	0.029603858
Fxr1h	Fragile X mental retardation gene 1, autosomal homolog	90 +/- 7	113 +/- 5	0.030712557
Gabarapl2	gamma-aminobutyric acid (GABA-A) receptor-associated protein-like 2	996 +/- 28	1119 +/- 13	0.002330669
Gadd45gip1	growth arrest and DNA-damage-inducible, gamma interacting protein 1	585 +/- 13	672 +/- 11	0.000195779
Galnt6	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 6	195 +/- 9	246 +/- 12	0.005382424
Galt	galactose-1-phosphate uridyl transferase	959 +/- 18	1042 +/- 30	0.038549773
Gap43	growth associated protein 43	2159 +/- 52	2411 +/- 76	0.01783279
Gapvd1	GTPase activating protein and VPS9 domains 1	2777 +/- 35	2963 +/- 49	0.009009359
Gas2l3	growth arrest-specific 2 like 3	115 +/- 10	146 +/- 4	0.020155879
Gas5	growth arrest specific 5	5610 +/- 119	6354 +/- 152	0.001934827
Gbas	glioblastoma amplified sequence	567 +/- 18	671 +/- 28	0.009172093

Gclm	glutamate-cysteine ligase , modifier subunit	712 +/- 19	787 +/- 9	0.005848865
Gcn111	GCN1 general control of amino-acid synthesis 1-like 1 (yeast)	60 +/- 4	91 +/- 8	0.006180462
Gcn5l2	GCN5 general control of amino acid synthesis-like 2 (yeast)	1449 +/- 16	1537 +/- 36	0.049261003
Gda	guanine deaminase	5967 +/- 117	6334 +/- 73	0.021138775
Gdap111	ganglioside-induced differentiation-associated protein 1-like 1	460 +/- 24	542 +/- 28	0.044804742
Gdi2	guanosine diphosphate (GDP) dissociation inhibitor 2	8816 +/- 122	9401 +/- 102	0.002597572
Ggnbp2	gametogenetin binding protein 2	1862 +/- 35	1987 +/- 19	0.009825564
Gipc1	GIPC PDZ domain containing family, member 1	622 +/- 10	668 +/- 12	0.011947769
Gja5	gap junction membrane channel protein alpha 5	87 +/- 10	114 +/- 4	0.033377465
Glcci1	Glucocorticoid induced transcript 1	168 +/- 13	216 +/- 13	0.016527758
Glrx	glutaredoxin	863 +/- 12	948 +/- 36	0.053641372
Gltscr2	glioma tumor suppressor candidate region gene 2	734 +/- 22	818 +/- 20	0.013063346
Gm129	gene model 129, (NCBI)	320 +/- 13	403 +/- 27	0.017870428
Gm1568	gene model 1568, (NCBI)	483 +/- 14	531 +/- 16	0.041252537
Gm1805	gene model 1805, (NCBI)	92 +/- 4	108 +/- 5	0.029506903
Gm364	gene model 364, (NCBI)	18 +/- 1	21 +/- 1	0.049353955
Gm484	gene model 484, (NCBI)	253 +/- 11	341 +/- 28	0.016102307
Gm568	gene model 568, (NCBI)	18 +/- 2	27 +/- 2	0.001164459
Gm996	gene model 996, (NCBI)	428 +/- 18	512 +/- 15	0.003205892
Gmppa	GDP-mannose pyrophosphorylase A	467 +/- 8	502 +/- 11	0.025643953
Gna11	guanine nucleotide binding protein, alpha 11	1735 +/- 30	1886 +/- 50	0.024870119
Gna13	guanine nucleotide binding protein, alpha 13	289 +/- 14	341 +/- 12	0.013556616
Gnai1	guanine nucleotide binding protein, alpha inhibiting 1	8081 +/- 72	8630 +/- 42	6.89737E-05
Gnaq	guanine nucleotide binding protein, alpha q polypeptide	4098 +/- 76	4466 +/- 58	0.001916545
Gnas	GNAS (guanine nucleotide binding protein, alpha stimulating) complex locus	12230 +/- 236	13915 +/- 321	0.001087336
Gnb1l	Guanine nucleotide binding protein (G protein), beta polypeptide 1-like	196 +/- 6	222 +/- 8	0.023952489
Gnb2	guanine nucleotide binding protein, beta 2	5983 +/- 124	6410 +/- 98	0.018729203
Gnb4	guanine nucleotide binding protein, beta 4	407 +/- 10	466 +/- 19	0.020771476
Gng2	guanine nucleotide binding protein (G protein), gamma 2 subunit	4215 +/- 65	4581 +/- 118	0.020263236

Gng3	guanine nucleotide binding protein (G protein), gamma 3 subunit	6590 +/- 182	7267 +/- 111	0.008583263
Gopc	golgi associated PDZ and coiled-coil motif containing	344 +/- 19	446 +/- 28	0.010827794
Gpam	glycerol-3-phosphate acyltransferase, mitochondrial	2006 +/- 49	2311 +/- 86	0.010130629
Gpc4	Glypican 4	313 +/- 14	395 +/- 15	0.001826208
Gpc5	glypican 5	1062 +/- 15	1254 +/- 21	1.1544E-05
Gpi1	glucose phosphate isomerase 1	8616 +/- 162	9163 +/- 89	0.013590332
Gpm6a	glycoprotein m6a	9884 +/- 224	10809 +/- 268	0.020070523
Gpr135	G protein-coupled receptor 135	474 +/- 5	538 +/- 13	0.001583709
Gpr22	G protein-coupled receptor 22	2932 +/- 44	3248 +/- 95	0.013337738
Gprin3	GPRIN family member 3	61 +/- 5	74 +/- 3	0.045126234
Gprk6	G protein-coupled receptor kinase 6	1049 +/- 24	1164 +/- 26	0.005746698
Gps2	G protein pathway suppressor 2	285 +/- 11	331 +/- 12	0.014711564
Gpsm1	G-protein signalling modulator 1 (AGS3-like, C. elegans)	458 +/- 11	548 +/- 36	0.04235753
Gramd1a	GRAM domain containing 1A	1116 +/- 33	1272 +/- 36	0.00642592
Gramd1b	GRAM domain containing 1B	304 +/- 4	324 +/- 7	0.024381984
Gria2	glutamate receptor, ionotropic, AMPA2 (alpha 2)	10933 +/- 189	11514 +/- 137	0.027809704
Grik5	glutamate receptor, ionotropic, kainate 5 (gamma 2)	2267 +/- 53	2431 +/- 51	0.044939026
Grin1a	glutamate receptor, ionotropic, N-methyl D-aspartate-like 1A	3253 +/- 45	3419 +/- 61	0.047512072
Grm2	G protein-coupled receptor, family C, group 1, member B	43 +/- 5	58 +/- 5	0.05142486
Gsto1	glutathione S-transferase omega 1	1334 +/- 45	1472 +/- 25	0.021520249
Gstp1	glutathione S-transferase, pi 1	8322 +/- 121	9298 +/- 202	0.001548956
Gtf2ird1	General transcription factor II I repeat domain-containing 1	12293 +/- 240	13463 +/- 180	0.00183993
Gtf3c2	general transcription factor IIIC, polypeptide 2, beta	722 +/- 11	774 +/- 14	0.011989513
Gtl2	GTL2, imprinted maternally expressed untranslated mRNA	9871 +/- 365	11112 +/- 391	0.036107521
Gtl3	gene trap locus 3	1297 +/- 24	1399 +/- 36	0.034490027
Gtrgeo22	gene trap ROSA b-geo 22	984 +/- 19	1048 +/- 21	0.039999127
Guf1	GUF1 GTPase homolog (S. cerevisiae)	316 +/- 9	354 +/- 8	0.00668307
H2afx	H2A histone family, member X	1505 +/- 28	1622 +/- 41	0.036189662
H2-Q1	histocompatibility 2, Q region locus 1	17 +/- 2	26 +/- 4	0.051863471

Hacl1	2-hydroxyacyl-CoA lyase 1	210 +/- 5	226 +/- 2	0.025050143
Hapln1	Hyaluronan and proteoglycan link protein 1	15 +/- 2	22 +/- 2	0.043836785
Hars	histidyl-tRNA synthetase	3727 +/- 90	4109 +/- 96	0.012873722
Hars2	histidyl tRNA synthetase 2	2235 +/- 43	2383 +/- 42	0.027558007
Hbld2	HESB like domain containing 2	6175 +/- 106	6601 +/- 158	0.045509947
Hbp1	high mobility group box transcription factor 1	1205 +/- 11	1324 +/- 51	0.053774088
Hdac10	histone deacetylase 10	232 +/- 4	274 +/- 12	0.009411807
Hddc2	HD domain containing 2	424 +/- 9	469 +/- 10	0.005726806
Hdgfrp3	hepatoma-derived growth factor, related protein 3	1655 +/- 26	1761 +/- 38	0.039580405
Hdh	Huntington disease gene homolog	717 +/- 26	835 +/- 25	0.006537825
Helz	Helicase with zinc finger domain	34 +/- 3	48 +/- 4	0.017599016
Hes6	hairy and enhancer of split 6 (Drosophila)	315 +/- 10	349 +/- 12	0.04683102
Hint1	histidine triad nucleotide binding protein 1	9041 +/- 128	10057 +/- 157	0.000301016
Hint3	histidine triad nucleotide binding protein 3	370 +/- 8	400 +/- 6	0.013489963
Hist2h2aa2	histone cluster 2, H2aa2	41 +/- 2	57 +/- 5	0.011720144
Hist3h2ba	histone cluster 3, H2ba	820 +/- 24	957 +/- 29	0.003006199
Hmbs	hydroxymethylbilane synthase	650 +/- 7	707 +/- 15	0.005167709
Hmgb3	high mobility group box 3	817 +/- 38	930 +/- 30	0.033637008
Hmgn3	high mobility group nucleosomal binding domain 3	4717 +/- 76	5007 +/- 112	0.053405118
Hmox2	heme oxygenase (decycling) 2	2954 +/- 16	3100 +/- 49	0.024839074
Hn1	hematological and neurological expressed sequence 1	1114 +/- 20	1198 +/- 30	0.036342107
Hnrpa0	heterogeneous nuclear ribonucleoprotein A0	4002 +/- 64	4255 +/- 62	0.013152365
Hnrpa3	heterogeneous nuclear ribonucleoprotein A3	4765 +/- 63	5057 +/- 69	0.008422898
Hnrpd1	heterogeneous nuclear ribonucleoprotein D-like	8876 +/- 175	9547 +/- 201	0.024809497
Hnrpr	heterogeneous nuclear ribonucleoprotein R	2923 +/- 51	3128 +/- 49	0.012527796
Hook1	hook homolog 1 (Drosophila)	957 +/- 33	1060 +/- 24	0.025328462
Hpcal4	hippocalcin-like 4	10582 +/- 180	11061 +/- 111	0.043534286
Hprt1	hypoxanthine guanine phosphoribosyl transferase 1	4574 +/- 38	5032 +/- 98	0.002607626
Hsd11	hydroxysteroid dehydrogenase like 1	1420 +/- 10	1494 +/- 29	0.042978103

Hsp90ab1	heat shock protein 90kDa alpha (cytosolic), class B member 1	10113 +/- 119	10762 +/- 159	0.00605372
Htati2	HIV-1 tat interactive protein 2, homolog (human)	263 +/- 12	310 +/- 11	0.012398354
Htra2	HtrA serine peptidase 2	566 +/- 12	644 +/- 14	0.000969104
Huwe1	HECT, UBA and WWE domain containing 1	1076 +/- 17	1155 +/- 22	0.014166601
Icam4	intercellular adhesion molecule 4, Landsteiner-Wiener blood group	96 +/- 3	104 +/- 2	0.031730573
Ict1	immature colon carcinoma transcript 1	218 +/- 7	241 +/- 7	0.036871015
Id4	inhibitor of DNA binding 4	3280 +/- 45	3525 +/- 84	0.026306343
Ift140	intraflagellar transport 140 homolog (Chlamydomonas)	569 +/- 11	608 +/- 10	0.02197577
Igfbp1	immunoglobulin (CD79A) binding protein 1	1082 +/- 15	1161 +/- 17	0.003776934
Igf1r	insulin-like growth factor I receptor	1493 +/- 29	1606 +/- 17	0.007058144
Igfbp5	insulin-like growth factor binding protein 5	2500 +/- 42	2760 +/- 38	0.000567231
Igsf3	immunoglobulin superfamily, member 3	97 +/- 8	116 +/- 4	0.048463869
Igsf4a	immunoglobulin superfamily, member 4A	2102 +/- 86	2311 +/- 45	0.054622062
Ihpk2	inositol hexaphosphate kinase 2	404 +/- 14	482 +/- 27	0.028400803
Ikbkap	inhibitor of kappa light polypeptide enhancer in B-cells, kinase complex-associated pro	2615 +/- 44	2850 +/- 43	0.001774599
Il17rb	interleukin 17 receptor B	89 +/- 5	117 +/- 3	0.000376294
Il18	interleukin 18	1467 +/- 28	1536 +/- 14	0.054524858
Immt	inner membrane protein, mitochondrial	1664 +/- 13	1739 +/- 19	0.008302576
Impact	imprinted and ancient	4427 +/- 54	4735 +/- 68	0.003789589
Inadl	InaD-like (Drosophila)	93 +/- 4	111 +/- 6	0.036610352
Inpp5e	inositol polyphosphate-5-phosphatase E	160 +/- 8	191 +/- 9	0.025863487
Insl5	insulin-like 5	77 +/- 2	84 +/- 2	0.038756224
Ints1	integrator complex subunit 1	800 +/- 7	857 +/- 16	0.010131495
Iqsec1	IQ motif and Sec7 domain 1	903 +/- 50	1130 +/- 26	0.002202915
Iqsec2	IQ motif and Sec7 domain 2	1197 +/- 27	1359 +/- 58	0.028462644
Iqwd1	IQ motif and WD repeats 1	929 +/- 40	1061 +/- 44	0.042770059
Irak1	interleukin-1 receptor-associated kinase 1	455 +/- 12	503 +/- 17	0.038631807
Irfg1	integrin alpha FG-GAP repeat containing 1	3949 +/- 45	4427 +/- 106	0.002226683
Itga6	integrin alpha 6	294 +/- 4	322 +/- 7	0.007226998

Itih3	inter-alpha trypsin inhibitor, heavy chain 3	815 +/- 34	933 +/- 42	0.046252474
Itpa	inosine triphosphatase (nucleoside triphosphate pyrophosphatase)	744 +/- 13	796 +/- 18	0.040282302
Jak1	Janus kinase 1	2879 +/- 23	3019 +/- 34	0.005194539
Jmjd1a	jumonji domain containing 1A	832 +/- 19	903 +/- 27	0.054577629
Jmjd1c	jumonji domain containing 1C	350 +/- 11	389 +/- 7	0.013443451
Jph3	junctophilin 3	2710 +/- 46	2906 +/- 52	0.013248177
Kbtbd5	kelch repeat and BTB (POZ) domain containing 5	160 +/- 7	180 +/- 4	0.02846941
Kbtbd8	Kelch repeat and BTB (POZ) domain containing 8	275 +/- 6	303 +/- 10	0.036176545
Kcnab2	potassium voltage-gated channel, shaker-related subfamily, beta member 2	4171 +/- 77	4440 +/- 70	0.022215658
Kcnc1	potassium voltage gated channel, Shaw-related subfamily, member 1	887 +/- 28	1021 +/- 26	0.003259605
Kctd16	potassium channel tetramerisation domain containing 16	100 +/- 4	116 +/- 4	0.008959672
Keap1	kelch-like ECH-associated protein 1	917 +/- 7	959 +/- 8	0.001962069
Khdrbs1	KH domain containing, RNA binding, signal transduction associated 1	3043 +/- 45	3176 +/- 42	0.052087699
Kif2a	Kinesin family member 2A	2476 +/- 22	2645 +/- 29	0.000565205
Kif5b	kinesin family member 5B	2093 +/- 25	2241 +/- 61	0.048604988
Kif5c	kinesin family member 5C	9171 +/- 100	9539 +/- 111	0.028326451
Kifc2	kinesin family member C2	4416 +/- 88	4907 +/- 150	0.016420324
Klf15	Kruppel-like factor 15	269 +/- 18	324 +/- 17	0.039022375
Klf7	Kruppel-like factor 7 (ubiquitous)	1087 +/- 37	1257 +/- 57	0.027657082
Kndc1	kinase non-catalytic C-lobe domain (KIND) containing 1	1611 +/- 45	1763 +/- 46	0.033695608
Kns2	kinesin 2	9899 +/- 124	10657 +/- 186	0.006447083
Larp5	La ribonucleoprotein domain family, member 5	2188 +/- 24	2285 +/- 37	0.048985941
Larp6	La ribonucleoprotein domain family, member 6	1284 +/- 24	1389 +/- 37	0.035345433
Lars2	leucyl-tRNA synthetase, mitochondrial	157 +/- 5	178 +/- 7	0.039329545
Ldhb	lactate dehydrogenase B	5236 +/- 101	5888 +/- 183	0.009759993
Lgals7	lectin, galactose binding, soluble 7	260 +/- 9	310 +/- 8	0.001138171
Lgi1	leucine-rich repeat LGI family, member 1	3400 +/- 55	3576 +/- 36	0.022463855
Lgi3	leucine-rich repeat LGI family, member 3	1428 +/- 48	1661 +/- 85	0.036416983
Lgtn	ligatin	599 +/- 11	633 +/- 7	0.028546937

Lias	lipoic acid synthetase	1012 +/- 13	1177 +/- 24	7.91034E-05
Lin7a	lin-7 homolog A (<i>C. elegans</i>)	1805 +/- 31	1918 +/- 36	0.03425359
Lmna	lamin A	423 +/- 13	528 +/- 26	0.004212705
Lmo4		4323 +/- 118	4760 +/- 133	0.027985582
Loh11cr2a	loss of heterozygosity, 11, chromosomal region 2, gene A homolog (human)	38 +/- 4	49 +/- 2	0.038886127
Loxl3	lysyl oxidase-like 3	130 +/- 6	158 +/- 8	0.015888001
Lrch2	leucine-rich repeats and calponin homology (CH) domain containing 2	339 +/- 11	393 +/- 16	0.016002238
Lrfn4	leucine rich repeat and fibronectin type III domain containing 4	201 +/- 7	234 +/- 10	0.015435973
Lrrc40	leucine rich repeat containing 40	756 +/- 18	808 +/- 13	0.040472205
Lrrc41	leucine rich repeat containing 41	896 +/- 15	967 +/- 23	0.022482422
Lrrc4b	leucine rich repeat containing 4B	1269 +/- 25	1371 +/- 31	0.023838111
Lrrtm1	leucine rich repeat transmembrane neuronal 1	358 +/- 14	427 +/- 12	0.002170559
Lrrtm4	leucine rich repeat transmembrane neuronal 4	391 +/- 19	457 +/- 16	0.019080797
Lrtm2	leucine-rich repeats and transmembrane domains 2	706 +/- 13	752 +/- 18	0.053676899
Lsm14b	LSM14 homolog B (<i>SCD6</i> , <i>S. cerevisiae</i>)	1102 +/- 35	1226 +/- 38	0.031056451
Lsm3	LSM3 homolog, U6 small nuclear RNA associated (<i>S. cerevisiae</i>)	1106 +/- 22	1218 +/- 30	0.009260914
Lxn	latexin	2783 +/- 101	3106 +/- 85	0.028845801
Ly6h	lymphocyte antigen 6 complex, locus H	5302 +/- 44	6001 +/- 162	0.003164383
Lym1	LYR motif containing 1	246 +/- 4	285 +/- 9	0.003345219
Lym2	LYR motif containing 2	633 +/- 16	677 +/- 13	0.048348941
Lym4	LYR motif containing 4	771 +/- 21	842 +/- 22	0.034304929
Mad2l1bp	MAD2L1 binding protein	315 +/- 6	339 +/- 7	0.028127501
Maea	macrophage erythroblast attacher	1184 +/- 20	1270 +/- 18	0.007379601
Maf1	MAF1 homolog (<i>S. cerevisiae</i>)	1881 +/- 31	1969 +/- 25	0.049396566
Magmas	mitochondria-associated protein involved in granulocyte-macrophage colony-stimulating factor signaling	2475 +/- 33	2722 +/- 50	0.001383603
Malt1	mucosa associated lymphoid tissue lymphoma translocation gene 1	96 +/- 4	113 +/- 5	0.019249882
Maoa	monoamine oxidase A	424 +/- 10	458 +/- 8	0.020657389
Map2k1	mitogen activated protein kinase kinase 1	6727 +/- 128	7094 +/- 96	0.041693292
Map2k4	mitogen activated protein kinase kinase 4	3072 +/- 26	3549 +/- 85	0.000612456

Map2k5	mitogen activated protein kinase kinase 5	404 +/- 14	458 +/- 13	0.014420237
Map3k11	mitogen activated protein kinase kinase kinase 11	161 +/- 6	194 +/- 8	0.005563348
Mapbpip	mitogen activated protein binding protein interacting protein	1504 +/- 29	1646 +/- 20	0.001805247
Mapk1ip1	mitogen activated protein kinase 1 interacting protein 1	871 +/- 12	908 +/- 12	0.050071749
Mapk3	mitogen activated protein kinase 3	2981 +/- 41	3278 +/- 110	0.032789142
Mapk8ip2	mitogen-activated protein kinase 8 interacting protein 2	6178 +/- 71	6603 +/- 100	0.0052365
Mapk8ip3	mitogen-activated protein kinase 8 interacting protein 3	2712 +/- 52	2992 +/- 100	0.030988125
Mapkapk5	MAP kinase-activated protein kinase 5	601 +/- 11	658 +/- 23	0.050635913
Marcks1	MARCKS-like 1	3107 +/- 100	3673 +/- 99	0.001277377
Mark4	MAP/microtubule affinity-regulating kinase 4	267 +/- 15	333 +/- 22	0.027690311
Marveld1	MARVEL (membrane-associating) domain containing 1	69 +/- 4	85 +/- 3	0.005803576
Mat2b	methionine adenosyltransferase II, beta	2689 +/- 91	3020 +/- 112	0.039297258
Matn2	matrilin 2	715 +/- 35	815 +/- 21	0.03144568
Mboat1	membrane bound O-acyltransferase domain containing 1	105 +/- 5	123 +/- 7	0.040716875
Mboat5	membrane bound O-acyltransferase domain containing 5	788 +/- 34	1046 +/- 30	5.60584E-05
Mbp	myelin basic protein	13785 +/- 564	15702 +/- 272	0.011925129
Mccc2	methylcrotonoyl-Coenzyme A carboxylase 2 (beta)	372 +/- 7	406 +/- 12	0.030916043
Mcf2	multiple coagulation factor deficiency 2	2625 +/- 18	2756 +/- 50	0.037477462
Mcm7	minichromosome maintenance deficient 7 (S. cerevisiae)	530 +/- 6	579 +/- 17	0.023376721
Mcrs1	microspherule protein 1	1422 +/- 19	1598 +/- 51	0.010514078
Mcts2	malignant T cell amplified sequence 2	680 +/- 20	741 +/- 16	0.034551519
Mdga1	MAM domain containing glycosylphosphatidylinositol anchor 1	145 +/- 7	191 +/- 7	0.000275715
Mdh2	malate dehydrogenase 2, NAD (mitochondrial)	9859 +/- 204	10614 +/- 129	0.008897436
Mecr	mitochondrial trans-2-enoyl-CoA reductase	348 +/- 8	390 +/- 8	0.00171225
Mef2a	myocyte enhancer factor 2A	3419 +/- 84	3771 +/- 75	0.007682615
Mef2d	Myocyte enhancer factor 2D	642 +/- 20	737 +/- 21	0.005736835
Metap1	methionine aminopeptidase-like 1	326 +/- 12	376 +/- 9	0.005215512
Mett5d1	methyltransferase 5 domain containing 1	389 +/- 9	426 +/- 9	0.013264184
Mettl1	methyltransferase-like 1	320 +/- 8	355 +/- 12	0.029099977

Mfsd2	major facilitator superfamily domain containing 2	473 +/- 7	656 +/- 23	4.66304E-05
Mfsd4	major facilitator superfamily domain containing 4	883 +/- 15	1056 +/- 16	1.64401E-06
Mgat4b	mannoside acetylglucosaminyltransferase 4, isoenzyme B	1518 +/- 18	1638 +/- 26	0.002082537
Mgrn1	mahogunin, ring finger 1	2377 +/- 20	2464 +/- 13	0.004780897
Mical1	microtubule associated monooxygenase, calponin and LIM domain containing 1	101 +/- 3	117 +/- 6	0.042811473
Mid1ip1	Mid1 interacting protein 1 (gastrulation specific G12-like (zebrafish))	4075 +/- 127	5878 +/- 98	3.98685E-08
Minpp1	multiple inositol polyphosphate histidine phosphatase 1	1500 +/- 12	1607 +/- 46	0.054121943
Mir16	membrane interacting protein of RGS16	4102 +/- 51	4378 +/- 106	0.040306493
Mll5	myeloid/lymphoid or mixed-lineage leukemia 5	1414 +/- 28	1545 +/- 20	0.002323133
Mllt11	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); transloc	8425 +/- 83	9328 +/- 149	0.000428893
Mlycd	malonyl-CoA decarboxylase	404 +/- 9	445 +/- 10	0.00838568
Mmrn1	multimerin 1	17 +/- 3	25 +/- 3	0.043400168
Morn1	MORN repeat containing 1	120 +/- 11	151 +/- 9	0.038895725
Mpg	N-methylpurine-DNA glycosylase	133 +/- 2	160 +/- 7	0.005374968
Mpped2	metallophosphoesterase domain containing 2	1108 +/- 16	1147 +/- 9	0.051828144
Mrpl15	mitochondrial ribosomal protein L15	170 +/- 10	206 +/- 9	0.01699287
Mrpl16	mitochondrial ribosomal protein L16	1339 +/- 18	1428 +/- 36	0.052640188
Mrpl2	mitochondrial ribosomal protein L2	953 +/- 21	1039 +/- 22	0.012991256
Mrpl22	mitochondrial ribosomal protein L22	1495 +/- 26	1631 +/- 47	0.028705389
Mrpl23	mitochondrial ribosomal protein L23	1828 +/- 29	1987 +/- 41	0.007415011
Mrpl27	mitochondrial ribosomal protein L27	2842 +/- 46	3031 +/- 60	0.02691553
Mrpl39	mitochondrial ribosomal protein L39	2866 +/- 18	3047 +/- 59	0.018135989
Mrpl40	mitochondrial ribosomal protein L40	719 +/- 27	829 +/- 27	0.012200929
Mrpl41	mitochondrial ribosomal protein L41	2363 +/- 42	2591 +/- 84	0.034985562
Mrpl52	mitochondrial ribosomal protein L52	851 +/- 12	901 +/- 14	0.016830534
Mrps10	mitochondrial ribosomal protein S10	961 +/- 8	1079 +/- 26	0.002485626
Mrps18b	mitochondrial ribosomal protein S18B	762 +/- 9	821 +/- 14	0.005239325
Mrps18c	mitochondrial ribosomal protein S18C	1563 +/- 32	1731 +/- 33	0.003226754
Mrps2	mitochondrial ribosomal protein S2	1129 +/- 32	1256 +/- 48	0.047452644

Mrps24	mitochondrial ribosomal protein S24	877 +/- 30	1010 +/- 36	0.01327586
Mrps30	mitochondrial ribosomal protein S30	642 +/- 23	700 +/- 11	0.048681526
Mrps33	mitochondrial ribosomal protein S33	2727 +/- 48	2877 +/- 45	0.040018171
Mrps7	mitochondrial ribosomal protein S7	941 +/- 19	1011 +/- 23	0.037347396
Msto1	misato homolog 1 (Drosophila)	310 +/- 10	344 +/- 9	0.022922726
Mt1	metallothionein 1	10500 +/- 306	11391 +/- 198	0.030900417
Mtap9	microtubule-associated protein 9	70 +/- 8	93 +/- 5	0.032892563
Mtch1	mitochondrial carrier homolog 1 (C. elegans)	5634 +/- 101	6047 +/- 147	0.038335584
Mtch2	mitochondrial carrier homolog 2 (C. elegans)	1330 +/- 16	1443 +/- 30	0.006787205
Mtdh	Metadherin	1250 +/- 34	1338 +/- 17	0.044111182
Mthfd1l	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 1-like	348 +/- 13	413 +/- 6	0.001059458
Mtmr9	myotubularin related protein 9	1809 +/- 20	1958 +/- 21	0.00017957
Mxra7	matrix-remodelling associated 7	317 +/- 13	448 +/- 23	0.000410233
Myc	myelocytomatosis oncogene	131 +/- 6	156 +/- 6	0.014408225
Myh10	Myosin, heavy polypeptide 10, non-muscle	64 +/- 6	82 +/- 6	0.042561913
Mylc2b	myosin light chain, regulatory B	9084 +/- 84	9555 +/- 179	0.039198495
Naca	nascent polypeptide-associated complex alpha polypeptide	6067 +/- 81	6424 +/- 70	0.005476181
Napb	N-ethylmaleimide sensitive fusion protein attachment protein beta	6223 +/- 133	6689 +/- 73	0.011019845
Nat2	N-acetyltransferase 2 (arylamine N-acetyltransferase)	65 +/- 3	76 +/- 2	0.011984499
Ncam1	neural cell adhesion molecule 1	2554 +/- 52	2788 +/- 56	0.008197857
Ncdn	neurochondrin	14552 +/- 187	15580 +/- 361	0.028892583
Ncl	nucleolin	117 +/- 11	149 +/- 8	0.034275826
Ncoa1	nuclear receptor coactivator 1	2672 +/- 39	2863 +/- 36	0.002790618
Ndfip1	Nedd4 family interacting protein 1	11402 +/- 139	12235 +/- 332	0.044925337
Ndn	necdin	6922 +/- 166	7804 +/- 186	0.003395658
Ndnl2	necdin-like 2	937 +/- 22	1026 +/- 19	0.009541875
Ndr1	N-myc downstream regulated gene 1	2055 +/- 35	2241 +/- 60	0.020248154
Ndr4	N-myc downstream regulated gene 4	17836 +/- 545	19216 +/- 281	0.047208762
Ndr1l	N-myc downstream regulated-like	2428 +/- 83	2642 +/- 47	0.045688017

Ndst1	N-deacetylase/N-sulfotransferase (heparan glucosaminy) 1	491 +/- 7	546 +/- 15	0.007440134
Ndufa1	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 1	8563 +/- 101	8986 +/- 92	0.008703325
Ndufa10	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex 10	5294 +/- 119	5776 +/- 134	0.017913492
Ndufa12	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 12	5997 +/- 175	6678 +/- 221	0.031513561
Ndufa5	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 5	5147 +/- 69	5424 +/- 84	0.023779081
Ndufa6	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 6 (B14)	3736 +/- 72	4075 +/- 81	0.007634961
Ndufa7	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 7 (B14.5a)	4759 +/- 135	5600 +/- 157	0.001483917
Ndufab1	NADH dehydrogenase (ubiquinone) 1, alpha/beta subcomplex, 1	395 +/- 11	454 +/- 24	0.050029827
Ndufb11	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 11	6673 +/- 127	7201 +/- 99	0.005913608
Ndufb4	NADH dehydrogenase (ubiquinone) 1 beta subcomplex 4	4658 +/- 59	5127 +/- 99	0.002294009
Ndufb9	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 9	10735 +/- 104	11436 +/- 207	0.012392383
Ndufs7	NADH dehydrogenase (ubiquinone) Fe-S protein 7	3548 +/- 90	3994 +/- 106	0.006564403
Ndufs8	NADH dehydrogenase (ubiquinone) Fe-S protein 8	6692 +/- 194	7165 +/- 62	0.047276285
Ndufv2	NADH dehydrogenase (ubiquinone) flavoprotein 2	4521 +/- 92	4873 +/- 86	0.015355129
Necap1	NECAP endocytosis associated 1	3976 +/- 75	4379 +/- 143	0.030862185
Negr1	neuronal growth regulator 1	2424 +/- 39	2705 +/- 43	0.000437294
Nelf	nasal embryonic LHRH factor	16472 +/- 310	17783 +/- 219	0.004423387
Nenf	neuron derived neurotrophic factor	1663 +/- 15	1747 +/- 33	0.042007884
Nfat5	nuclear factor of activated T-cells 5	72 +/- 2	81 +/- 3	0.023784277
Nfic	nuclear factor I/C	247 +/- 6	286 +/- 10	0.00710436
Nfu1	NFU1 iron-sulfur cluster scaffold homolog (S. cerevisiae)	1209 +/- 14	1307 +/- 20	0.001379596
Ngfrap1	nerve growth factor receptor (TNFRSF16) associated protein 1	4739 +/- 78	5169 +/- 101	0.004924852
Nipsnap1	4-nitrophenylphosphatase domain and non-neuronal SNAP25-like protein homolog 1 (C	1119 +/- 19	1327 +/- 22	8.46544E-06
Nkx6-2	NK6 transcription factor related, locus 2 (Drosophila)	69 +/- 6	93 +/- 7	0.021085673
Nme2	expressed in non-metastatic cells 2, protein	4694 +/- 131	5176 +/- 152	0.031019382
Nme5	expressed in non-metastatic cells 5	310 +/- 16	354 +/- 10	0.039513429
Nmral1	NmrA-like family domain containing 1	252 +/- 9	278 +/- 7	0.053035805
Nol5a	nucleolar protein 5A	869 +/- 18	927 +/- 15	0.028181098
Nola2	nucleolar protein family A, member 2	732 +/- 11	798 +/- 19	0.01018996

Nola3	nucleolar protein family A, member 3	4716 +/- 100	5063 +/- 118	0.041674502
Nov	nephroblastoma overexpressed gene	4525 +/- 152	5268 +/- 227	0.018450661
Npb	neuropeptide B	53 +/- 4	64 +/- 3	0.036034036
Nptxr	neuronal pentraxin receptor	6638 +/- 110	7053 +/- 94	0.01354703
Nr2f6	nuclear receptor subfamily 2, group F, member 6	560 +/- 20	620 +/- 18	0.04473377
Nr3c1	nuclear receptor subfamily 3, group C, member 1	1677 +/- 46	1826 +/- 31	0.020095741
Nr3c2	nuclear receptor subfamily 3, group C, member 2	1784 +/- 38	2009 +/- 50	0.004251328
Nrbp2	nuclear receptor binding protein 2	2190 +/- 52	2332 +/- 32	0.039815144
Nrip2	nuclear receptor interacting protein 2	135 +/- 8	165 +/- 9	0.032309333
Nrip3	nuclear receptor interacting protein 3	3900 +/- 155	4282 +/- 61	0.047572444
Nrxn3	neurexin III	1094 +/- 24	1277 +/- 16	7.69392E-05
Nsd1	nuclear receptor-binding SET-domain protein 1	72 +/- 5	92 +/- 3	0.009450022
Nsf	N-ethylmaleimide sensitive fusion protein	13893 +/- 352	14774 +/- 142	0.044911986
Nt5c	5',3'-nucleotidase, cytosolic	735 +/- 36	895 +/- 32	0.005091184
Nt5c2	5'-nucleotidase, cytosolic II	335 +/- 13	373 +/- 9	0.039989454
Ntan1	N-terminal Asn amidase	1229 +/- 19	1333 +/- 33	0.020291818
Ntf3	neurotrophin 3	132 +/- 9	174 +/- 10	0.006765536
Ntn1	netrin 1	152 +/- 4	190 +/- 8	0.001094766
Ntng2	netrin G2	132 +/- 10	191 +/- 22	0.031804889
Nub1	negative regulator of ubiquitin-like proteins 1	898 +/- 12	970 +/- 15	0.002006055
Nudt18	nudix (nucleoside diphosphate linked moiety X)-type motif 18	1072 +/- 46	1200 +/- 17	0.02915708
Nup133	nucleoporin 133	220 +/- 7	240 +/- 4	0.034226083
Nupl2	nucleoporin like 2	86 +/- 5	107 +/- 3	0.003798181
Nxf1	nuclear RNA export factor 1 homolog (<i>S. cerevisiae</i>)	170 +/- 6	201 +/- 7	0.004135509
Oaz1	ornithine decarboxylase antizyme	12327 +/- 186	13232 +/- 137	0.002376506
Onecut1	one cut domain, family member 1	28 +/- 3	38 +/- 3	0.026792
Optn	optineurin	242 +/- 8	279 +/- 9	0.009103709
Orc3l	origin recognition complex, subunit 3-like (<i>S. cerevisiae</i>)	652 +/- 13	724 +/- 15	0.003228358
Orc4l	origin recognition complex, subunit 4-like (<i>S. cerevisiae</i>)	548 +/- 13	606 +/- 14	0.009863131

Orc6l	origin recognition complex, subunit 6-like (<i>S. cerevisiae</i>)	406 +/- 10	443 +/- 11	0.029404303
ORF19	open reading frame 19	428 +/- 9	459 +/- 6	0.010939676
Osbp2	oxysterol binding protein 2	568 +/- 18	640 +/- 21	0.023019438
Osr1	odd-skipped related 1 (<i>Drosophila</i>)	46 +/- 8	69 +/- 7	0.053098151
Otub1	OTU domain, ubiquitin aldehyde binding 1	1497 +/- 47	1638 +/- 26	0.023308055
Ovgp1	oviductal glycoprotein 1	336 +/- 12	406 +/- 13	0.00145233
Pabpn1	poly(A) binding protein, nuclear 1	7263 +/- 168	8169 +/- 150	0.001288401
Pak3	p21 (CDKN1A)-activated kinase 3	2717 +/- 38	2875 +/- 35	0.010538033
Pard6a	par-6 (partitioning defective 6,) homolog alpha (<i>C. elegans</i>)	552 +/- 8	606 +/- 19	0.02917456
Park7	Parkinson disease (autosomal recessive, early onset) 7	3956 +/- 104	4288 +/- 96	0.034331486
Parl	presenilin associated, rhomboid-like	1446 +/- 29	1546 +/- 30	0.031927584
Parn	poly(A)-specific ribonuclease (deadenylation nuclease)	483 +/- 17	536 +/- 11	0.024525291
Parp2	poly (ADP-ribose) polymerase family, member 2	726 +/- 12	791 +/- 24	0.034210475
Parp3	poly (ADP-ribose) polymerase family, member 3	77 +/- 7	126 +/- 12	0.004445857
Patz1	POZ (BTB) and AT hook containing zinc finger 1	131 +/- 4	153 +/- 7	0.013072878
Pcbd1	pterin 4 alpha carbinolamine dehydratase/dimerization cofactor of hepatocyte nuclear f	225 +/- 19	313 +/- 19	0.004628077
Pcdh17	protocadherin 17	712 +/- 20	797 +/- 28	0.032309376
Pcdh7	protocadherin 7	46 +/- 2	60 +/- 4	0.01417171
Pcm1	pericentriolar material 1	1436 +/- 19	1524 +/- 36	0.05403873
Pcnp	PEST proteolytic signal containing nuclear protein	5684 +/- 70	5970 +/- 97	0.033573612
Pcqap	positive cofactor 2, multiprotein complex, glutamine/Q-rich-associated protein	854 +/- 13	911 +/- 21	0.044024594
Pcyox1	prenylcysteine oxidase 1	1437 +/- 20	1616 +/- 41	0.002834011
Pdap1	PDGFA associated protein 1	1023 +/- 32	1127 +/- 20	0.01883319
Pdcd2	programmed cell death 2	331 +/- 20	390 +/- 17	0.0435036
Pde8a	phosphodiesterase 8A	583 +/- 17	667 +/- 30	0.03366721
Pdgfc	platelet-derived growth factor, C polypeptide	178 +/- 8	220 +/- 15	0.029479373
Pdha1	pyruvate dehydrogenase E1 alpha 1	6012 +/- 68	6239 +/- 63	0.027256876
Pdk2	pyruvate dehydrogenase kinase, isoenzyme 2	1230 +/- 18	1299 +/- 25	0.044916609
Pdlim4	PDZ and LIM domain 4	445 +/- 24	576 +/- 23	0.001413866

Pdlim5	PDZ and LIM domain 5	127 +/- 5	152 +/- 9	0.029459866
Pdzd11	PDZ domain containing 11	61 +/- 3	78 +/- 2	0.000125466
Peci	peroxisomal delta3, delta2-enoyl-Coenzyme A isomerase	989 +/- 25	1077 +/- 21	0.016787477
Peli2	pellino 2	359 +/- 7	398 +/- 9	0.006490808
Pelo	pelota homolog (Drosophila)	181 +/- 8	225 +/- 15	0.024925727
Perld1	per1-like domain containing 1	79 +/- 4	98 +/- 7	0.031413708
Pex19	peroxisome biogenesis factor 19	522 +/- 7	556 +/- 8	0.006639643
Pex3	peroxisomal biogenesis factor 3	989 +/- 15	1044 +/- 15	0.022078089
Pfdn1	prefoldin 1	964 +/- 33	1069 +/- 31	0.037536228
Pfdn5	prefoldin 5	4022 +/- 67	4441 +/- 76	0.00123823
Pfn2	profilin 2	13491 +/- 187	14442 +/- 165	0.00230829
Pgea1	PKD2 interactor, golgi and endoplasmic reticulum associated 1	568 +/- 19	648 +/- 24	0.019818125
Phb2	prohibitin 2	1153 +/- 156	1604 +/- 89	0.028527122
Phf17	PHD finger protein 17	164 +/- 8	199 +/- 12	0.032795396
Phgdh1	phosphoglycerate dehydrogenase like 1	504 +/- 13	541 +/- 5	0.022841136
Phkg2	phosphorylase kinase, gamma 2 (testis)	975 +/- 9	1059 +/- 25	0.012544652
Phr1	pam, highwire, rpm 1	3658 +/- 85	3996 +/- 43	0.005016239
Pigk	phosphatidylinositol glycan anchor biosynthesis, class K	667 +/- 13	716 +/- 11	0.015360196
Pik3r4	phosphatidylinositol 3 kinase, regulatory subunit, polypeptide 4, p150	400 +/- 62	685 +/- 76	0.011988661
Pik4cb	phosphatidylinositol 4-kinase, catalytic, beta polypeptide	348 +/- 11	377 +/- 8	0.053417716
Pink1	PTEN induced putative kinase 1	4220 +/- 74	4739 +/- 122	0.003808197
Pkia	protein kinase inhibitor, alpha	2755 +/- 25	2958 +/- 83	0.05056099
Pla2g3	phospholipase A2, group III	87 +/- 6	114 +/- 7	0.010649783
Pla2g4e	phospholipase A2, group IVE	193 +/- 7	248 +/- 15	0.008660229
Plcx1	phosphatidylinositol-specific phospholipase C, X domain containing 1	93 +/- 13	131 +/- 9	0.036052739
Plekhg5	pleckstrin homology domain containing, family G (with RhoGef domain) member 5	1409 +/- 39	1515 +/- 21	0.03481104
Plekhj1	pleckstrin homology domain containing, family J member 1	690 +/- 14	768 +/- 31	0.048177213
Plk4	polo-like kinase 4 (Drosophila)	137 +/- 6	157 +/- 7	0.044284661
Plvap	plasmalemma vesicle associated protein	565 +/- 31	657 +/- 28	0.042578089

Pms2	postmeiotic segregation increased 2 (<i>S. cerevisiae</i>)	407 +/- 9	480 +/- 18	0.004530962
Pnck	pregnancy upregulated non-ubiquitously expressed CaM kinase	2793 +/- 42	3040 +/- 45	0.001631815
Pno1	partner of NOB1 homolog (<i>S. cerevisiae</i>)	1077 +/- 19	1137 +/- 20	0.047564119
Pnpt1	polyribonucleotide nucleotidyltransferase 1	182 +/- 6	273 +/- 11	1.31725E-05
Polr2d	polymerase (RNA) II (DNA directed) polypeptide D	539 +/- 13	590 +/- 19	0.043382825
Polr2i	polymerase (RNA) II (DNA directed) polypeptide I	1565 +/- 32	1766 +/- 59	0.012638867
Polr2j	polymerase (RNA) II (DNA directed) polypeptide J	1472 +/- 9	1538 +/- 14	0.002016144
Polr3g	polymerase (RNA) III (DNA directed) polypeptide G	107 +/- 6	127 +/- 6	0.041376671
Pom121	nuclear pore membrane protein 121	1654 +/- 34	1790 +/- 37	0.019013059
Pou3f1	POU domain, class 3, transcription factor 1	1041 +/- 26	1178 +/- 33	0.007030472
Ppapdc1	phosphatidic acid phosphatase type 2 domain containing 1	611 +/- 13	671 +/- 10	0.002761826
Ppgb	Protective protein for beta-galactosidase	43 +/- 2	51 +/- 3	0.039395552
Ppia	peptidylprolyl isomerase A	18090 +/- 596	19830 +/- 393	0.031085572
Ppib	peptidylprolyl isomerase B	3940 +/- 101	4276 +/- 96	0.029600948
Ppm1a	protein phosphatase 1A, magnesium dependent, alpha isoform	1456 +/- 50	1616 +/- 38	0.024151614
Ppm1m	protein phosphatase 1M	487 +/- 17	597 +/- 25	0.004376201
Ppp1ca	protein phosphatase 1, catalytic subunit, alpha isoform	4708 +/- 41	5100 +/- 84	0.002415374
Ppp1r11	protein phosphatase 1, regulatory (inhibitor) subunit 11	2091 +/- 24	2261 +/- 70	0.049453308
Ppp1r2	protein phosphatase 1, regulatory (inhibitor) subunit 2	1489 +/- 29	1686 +/- 49	0.005395232
Ppp2ca	protein phosphatase 2 (formerly 2A), catalytic subunit, alpha isoform	10225 +/- 76	10771 +/- 79	0.000247389
Ppp2r1a	protein phosphatase 2 (formerly 2A), regulatory subunit A (PR 65), alpha isoform	8005 +/- 76	8536 +/- 96	0.000855499
Ppp2r2d	protein phosphatase 2, regulatory subunit B, delta isoform	1582 +/- 32	1723 +/- 35	0.010010358
Ppp2r3a	protein phosphatase 2 (formerly 2A), regulatory subunit B, alpha	237 +/- 10	275 +/- 12	0.028123698
Ppp3ca	protein phosphatase 3, catalytic subunit, alpha isoform	14798 +/- 337	15891 +/- 111	0.014079026
Ppp3r1	protein phosphatase 3, regulatory subunit B, alpha isoform (calcineurin B, type I)	11923 +/- 217	12545 +/- 124	0.033358028
Pqbp1	polyglutamine binding protein 1	783 +/- 22	858 +/- 25	0.039440017
Prcc	papillary renal cell carcinoma (translocation-associated)	215 +/- 5	255 +/- 12	0.014876565
Prei4	preimplantation protein 4	61 +/- 4	71 +/- 2	0.049351477
Prepl	prolyl endopeptidase-like	14 +/- 1	21 +/- 2	0.012602871

Prkag1	Protein kinase, AMP-activated, gamma 1 non-catalytic subunit	106 +/- 6	130 +/- 9	0.050792579
Prkcb1	protein kinase C, beta 1	10132 +/- 174	11136 +/- 191	0.002175879
Prmt6	protein arginine N-methyltransferase 6	191 +/- 6	224 +/- 4	0.000766017
Prnp	prion protein	16640 +/- 252	18264 +/- 299	0.001422818
Prpf19	PRP19/PSO4 pre-mRNA processing factor 19 homolog (S. cerevisiae)	3760 +/- 58	4040 +/- 82	0.01603933
Prpf38a	PRP38 pre-mRNA processing factor 38 (yeast) domain containing A	125 +/- 5	144 +/- 6	0.029841684
Prrg2	proline-rich Gla (G-carboxyglutamic acid) polypeptide 2	95 +/- 7	119 +/- 6	0.027883361
Psip1	PC4 and SFRS1 interacting protein 1	1217 +/- 33	1355 +/- 36	0.01374175
Psm1	proteasome (prosome, macropain) subunit, alpha type 1	2904 +/- 68	3101 +/- 61	0.049394411
Psm3	proteasome (prosome, macropain) subunit, alpha type 3	5949 +/- 59	6276 +/- 68	0.002756376
Psm7	proteasome (prosome, macropain) subunit, alpha type 7	1594 +/- 19	1764 +/- 45	0.006095427
Psm10	proteasome (prosome, macropain) subunit, beta type 10	975 +/- 23	1076 +/- 29	0.017037837
Psm3	proteasome (prosome, macropain) subunit, beta type 3	1931 +/- 30	2223 +/- 118	0.043780246
Psm6	proteasome (prosome, macropain) subunit, beta type 6	2933 +/- 50	3168 +/- 95	0.051371063
Psm2	proteasome (prosome, macropain) 26S subunit, ATPase 2	3938 +/- 52	4243 +/- 102	0.022974987
Psm1	proteasome (prosome, macropain) 26S subunit, non-ATPase, 1	2974 +/- 40	3125 +/- 57	0.050927575
Psm14	Proteasome (prosome, macropain) 26S subunit, non-ATPase, 14	148 +/- 4	170 +/- 9	0.050980629
Psm6	proteasome (prosome, macropain) 26S subunit, non-ATPase, 6	3711 +/- 32	3986 +/- 32	6.12734E-05
Psm1	proteasome (prosome, macropain) 28 subunit, alpha	1477 +/- 30	1640 +/- 52	0.021188657
Psm1	proteasome (prosome, macropain) inhibitor subunit 1	469 +/- 14	528 +/- 7	0.003537397
Pstpip2	proline-serine-threonine phosphatase-interacting protein 2	145 +/- 9	174 +/- 6	0.022192112
Ptbp2	Polypyrimidine tract binding protein 2	15 +/- 2	23 +/- 2	0.009854108
Pten	Phosphatase and tensin homolog	83 +/- 5	104 +/- 3	0.002419149
Ptger2	prostaglandin E receptor 2 (subtype EP2)	24 +/- 2	34 +/- 2	0.005125938
Ptplad2	Protein tyrosine phosphatase-like A domain containing 2	48 +/- 4	61 +/- 5	0.04670098
Ptpmt1	protein tyrosine phosphatase, mitochondrial 1	1313 +/- 11	1468 +/- 51	0.018985311
Ptpn2	Protein tyrosine phosphatase, receptor type, N polypeptide 2	4002 +/- 80	4277 +/- 78	0.027621884
Ptprs	protein tyrosine phosphatase, receptor type, S	6239 +/- 110	6666 +/- 127	0.023549681
Purb	Purine rich element binding protein B	3566 +/- 61	3859 +/- 54	0.002950714

Pus7	pseudouridylate synthase 7 homolog (<i>S. cerevisiae</i>)	356 +/- 4	383 +/- 10	0.035636013
Pvrl4	poliovirus receptor-related 4	70 +/- 5	86 +/- 4	0.022482005
Pvt1	plasmacytoma variant translocation 1	159 +/- 6	204 +/- 12	0.007269703
Qpct	glutaminyl-peptide cyclotransferase (glutaminyl cyclase)	273 +/- 9	305 +/- 10	0.031712887
Qpctl	glutaminyl-peptide cyclotransferase-like	113 +/- 5	144 +/- 5	0.0008333
Qser1	glutamine and serine rich 1	74 +/- 2	85 +/- 3	0.009970145
Rab2	RAB2, member RAS oncogene family	8229 +/- 155	8627 +/- 97	0.050894826
Rab34	RAB34, member of RAS oncogene family	531 +/- 19	620 +/- 25	0.015310844
Rab3a	RAB3A, member RAS oncogene family	8287 +/- 217	9255 +/- 271	0.016404786
Rab40b	Rab40b, member RAS oncogene family	377 +/- 15	440 +/- 23	0.043272136
Rab4a	RAB4A, member RAS oncogene family	13 +/- 2	22 +/- 2	0.007251756
Rab5b	RAB5B, member RAS oncogene family	167 +/- 5	196 +/- 8	0.009489358
Rab6	RAB6, member RAS oncogene family	10072 +/- 156	10615 +/- 100	0.012754499
Rab6ip1	Rab6 interacting protein 1	7306 +/- 121	7667 +/- 44	0.020760782
Rab7	RAB7, member RAS oncogene family	6950 +/- 183	7634 +/- 66	0.006811412
Rabepk	Rab9 effector protein with kelch motifs	181 +/- 9	239 +/- 20	0.027647638
Rabl4	RAB, member of RAS oncogene family-like 4	456 +/- 7	497 +/- 15	0.034586804
Rad18	RAD18 homolog (<i>S. cerevisiae</i>)	219 +/- 10	261 +/- 14	0.025765359
Raf1	v-raf-leukemia viral oncogene 1	1383 +/- 34	1471 +/- 24	0.052234526
Ranbp1	RAN binding protein 1	2813 +/- 47	3049 +/- 73	0.018438439
Ranbp17	RAN binding protein 17	54 +/- 7	73 +/- 3	0.035032622
Rap2b	RAP2B, member of RAS oncogene family	599 +/- 36	746 +/- 42	0.019285122
Rapgef1	Rap guanine nucleotide exchange factor (GEF) 1	648 +/- 15	721 +/- 22	0.01887989
Rapgef4	Rap guanine nucleotide exchange factor (GEF) 4	3335 +/- 66	3591 +/- 96	0.046923095
Rapgef1l	Rap guanine nucleotide exchange factor (GEF)-like 1	224 +/- 6	280 +/- 10	0.000613221
Rasgef1a	RasGEF domain family, member 1A	1275 +/- 21	1392 +/- 15	0.000798223
Rasgrf1	RAS protein-specific guanine nucleotide-releasing factor 1	8625 +/- 254	9294 +/- 120	0.042606629
Rasip1	Ras interacting protein 1	78 +/- 6	100 +/- 6	0.022391497
Rb1	retinoblastoma 1	1201 +/- 31	1335 +/- 35	0.014186539

Rbbp6	retinoblastoma binding protein 6	949 +/- 18	1120 +/- 31	0.000646088
Rbed1	RNA binding motif and ELMO domain 1	374 +/- 18	468 +/- 20	0.003789843
Rbm26	RNA binding motif protein 26	1242 +/- 35	1468 +/- 31	0.000257506
Rbm34	RNA binding motif protein 34	604 +/- 14	712 +/- 5	0.000124269
Rbm39	RNA binding motif protein 39	1091 +/- 28	1227 +/- 49	0.03531058
Rcor3	REST corepressor 3	914 +/- 20	978 +/- 18	0.030431398
Reck	reversion-inducing-cysteine-rich protein with kazal motifs	348 +/- 13	394 +/- 12	0.019601487
Reep3	receptor accessory protein 3	607 +/- 7	659 +/- 17	0.018570606
Reep6	receptor accessory protein 6	185 +/- 10	226 +/- 12	0.022338955
Reps1	RalBP1 associated Eps domain containing protein	983 +/- 12	1087 +/- 13	4.55166E-05
Resp18	regulated endocrine-specific protein 18	1918 +/- 86	2294 +/- 54	0.003264983
Rfc3	replication factor C (activator 1) 3	132 +/- 4	162 +/- 4	0.000111155
Rfesd	Rieske (Fe-S) domain containing	379 +/- 11	442 +/- 20	0.020311777
Rgs3	regulator of G-protein signaling 3	122 +/- 5	158 +/- 14	0.042460821
Rhob	ras homolog gene family, member B	11136 +/- 203	11727 +/- 181	0.048651777
Ric8b	resistance to inhibitors of cholinesterase 8 homolog B (C. elegans)	650 +/- 14	708 +/- 18	0.025858096
Riok3	RIO kinase 3 (yeast)	76 +/- 4	92 +/- 5	0.021254246
Rmi1	RMI1, RecQ mediated genome instability 1, homolog (S. cerevisiae)	140 +/- 5	155 +/- 4	0.035819478
Rnaseh1	ribonuclease H1	239 +/- 5	269 +/- 9	0.011774209
Rnf146	ring finger protein 146	365 +/- 13	422 +/- 10	0.005726186
Rnf170	ring finger protein 170	334 +/- 10	372 +/- 8	0.011964082
Rnf207	ring finger protein 207	228 +/- 6	272 +/- 15	0.022290538
Rnf31	ring finger protein 31	296 +/- 12	329 +/- 9	0.047104508
Rnf8	ring finger protein 8	584 +/- 14	635 +/- 17	0.038270273
Rnmt	RNA (guanine-7-) methyltransferase	937 +/- 23	1013 +/- 8	0.011517102
Rnpepl1	arginyl aminopeptidase (aminopeptidase B)-like 1	551 +/- 16	634 +/- 20	0.005964353
Rnps1	ribonucleic acid binding protein S1	3365 +/- 37	3482 +/- 31	0.030594482
Rpl10	ribosomal protein 10	12627 +/- 187	13925 +/- 242	0.001031326
Rpl10a	ribosomal protein L10A	8408 +/- 149	9147 +/- 148	0.003424092

Rpl11	ribosomal protein L11	7163 +/- 157	7883 +/- 114	0.002652668
Rpl12	ribosomal protein L12	6527 +/- 247	7398 +/- 252	0.027088015
Rpl13	ribosomal protein L13	10112 +/- 253	11160 +/- 219	0.007501569
Rpl13a	ribosomal protein L13a	7474 +/- 124	8385 +/- 171	0.000887075
Rpl14	ribosomal protein L14	4431 +/- 73	5046 +/- 120	0.000989011
Rpl17	ribosomal protein L17	11448 +/- 248	12983 +/- 226	0.000518418
Rpl18	ribosomal protein L18	4929 +/- 105	5538 +/- 224	0.033924131
Rpl18a	Ribosomal protein L18A	8581 +/- 241	9588 +/- 274	0.015481546
Rpl19	ribosomal protein L19	10618 +/- 223	11694 +/- 235	0.005085873
Rpl21	ribosomal protein L21	6349 +/- 121	7184 +/- 172	0.001720497
Rpl22	ribosomal protein L22	6857 +/- 67	7271 +/- 124	0.013726302
Rpl22l1	ribosomal protein L22 like 1	8417 +/- 443	10035 +/- 212	0.00815529
Rpl23	ribosomal protein L23	10774 +/- 221	11539 +/- 241	0.034577501
Rpl23a	ribosomal protein L23a	11662 +/- 178	12948 +/- 236	0.000798557
Rpl24	ribosomal protein L24	10771 +/- 151	11890 +/- 210	0.000870347
Rpl26	ribosomal protein L26	15990 +/- 321	17436 +/- 375	0.011233128
Rpl27	ribosomal protein L27	8106 +/- 126	8850 +/- 140	0.001488237
Rpl28	ribosomal protein L28	9836 +/- 184	10995 +/- 428	0.033219617
Rpl29	ribosomal protein L29	8761 +/- 132	9686 +/- 194	0.001844622
Rpl3	ribosomal protein L3	15468 +/- 414	16848 +/- 222	0.013757149
Rpl35	ribosomal protein L35	7413 +/- 145	8331 +/- 148	0.000570441
Rpl35a	ribosomal protein L35a	10399 +/- 57	11529 +/- 68	3.36712E-08
Rpl37	ribosomal protein L37	14675 +/- 273	16032 +/- 167	0.001288167
Rpl37a	ribosomal protein L37a	11558 +/- 266	12827 +/- 278	0.005311067
Rpl38	ribosomal protein L38	19184 +/- 356	20753 +/- 486	0.021913673
Rpl39	ribosomal protein L39	16394 +/- 152	18317 +/- 383	0.001141602
Rpl4	ribosomal protein L4	11931 +/- 199	12843 +/- 183	0.004529414
Rpl41	ribosomal protein L41	14356 +/- 255	15798 +/- 321	0.003629177
Rpl6	ribosomal protein L6	9274 +/- 186	10058 +/- 105	0.003692302

Rpl9	ribosomal protein L9	16048 +/- 356	17576 +/- 323	0.006710214
Rplp1	ribosomal protein, large, P1	14715 +/- 350	16147 +/- 266	0.006235697
Rplp2	ribosomal protein, large P2	12535 +/- 245	13808 +/- 278	0.004103625
Rpp25	ribonuclease P 25 subunit (human)	281 +/- 6	322 +/- 9	0.002371991
Rpp30	ribonuclease P/MRP 30 subunit (human)	855 +/- 13	930 +/- 25	0.021636769
Rps10	ribosomal protein S10	6006 +/- 101	6742 +/- 134	0.000711365
Rps12	ribosomal protein S12	9649 +/- 170	10307 +/- 152	0.012176202
Rps13	ribosomal protein S13	4844 +/- 155	5672 +/- 148	0.001713588
Rps14	ribosomal protein S14	10262 +/- 282	11345 +/- 182	0.007323273
Rps15	ribosomal protein S15	9408 +/- 412	11134 +/- 538	0.024239621
Rps15a	ribosomal protein S15a	9896 +/- 334	10951 +/- 282	0.030563831
Rps16	ribosomal protein S16	11644 +/- 262	13065 +/- 214	0.001068991
Rps17	ribosomal protein S17	10927 +/- 212	11979 +/- 196	0.002683742
Rps18	ribosomal protein S18	5298 +/- 129	5805 +/- 134	0.016485643
Rps19	ribosomal protein S19	7059 +/- 121	8014 +/- 194	0.001332848
Rps20	ribosomal protein S20	8553 +/- 176	9276 +/- 136	0.006579192
Rps21	ribosomal protein S21	14814 +/- 279	16466 +/- 252	0.000621108
Rps23	ribosomal protein S23	12685 +/- 186	13795 +/- 168	0.000585978
Rps24	ribosomal protein S24	12172 +/- 95	13153 +/- 280	0.009592008
Rps25	ribosomal protein S25	7352 +/- 115	8084 +/- 90	0.000220007
Rps26	ribosomal protein S26	7301 +/- 198	8213 +/- 255	0.014678402
Rps27	ribosomal protein S27	8338 +/- 169	9497 +/- 228	0.001324015
Rps27a	ribosomal protein S27a	13600 +/- 116	14368 +/- 231	0.013615493
Rps28	ribosomal protein S28	15650 +/- 293	17257 +/- 314	0.002205998
Rps29	ribosomal protein S29	21548 +/- 156	23599 +/- 412	0.001216067
Rps3	ribosomal protein S3	9052 +/- 138	9768 +/- 218	0.01709541
Rps3a	ribosomal protein S3a	13629 +/- 261	14833 +/- 238	0.004294711
Rps5	ribosomal protein S5	8069 +/- 150	8727 +/- 141	0.006369542
Rps7	ribosomal protein S7	8786 +/- 214	9866 +/- 320	0.015576492

Rps8	ribosomal protein S8	10391 +/- 87	11120 +/- 94	5.93793E-05
Rsnl2	restin-like 2	903 +/- 18	977 +/- 19	0.013612055
Rtcd1	RNA terminal phosphate cyclase domain 1	1574 +/- 41	1764 +/- 39	0.004876931
Rtn1	reticulon 1	13459 +/- 454	14761 +/- 318	0.036100489
Rtn3	reticulon 3	14026 +/- 186	14884 +/- 275	0.024038295
Rwdd2	RWD domain containing 2	1318 +/- 32	1567 +/- 47	0.000866371
Sap30bp	SAP30 binding protein	294 +/- 9	382 +/- 17	0.000952931
Saps1	SAPS domain family, member 1	727 +/- 18	779 +/- 13	0.04088029
Sat2	spermidine/spermine N1-acetyl transferase 2	479 +/- 17	543 +/- 17	0.019365922
Sbsn	suprabasin	446 +/- 15	524 +/- 26	0.022584199
Scd1	stearoyl-Coenzyme A desaturase 1	536 +/- 50	1101 +/- 41	6.37736E-07
Scd2	stearoyl-Coenzyme A desaturase 2	16783 +/- 310	20438 +/- 249	5.45789E-07
Scg5	secretogranin V	4710 +/- 75	5167 +/- 138	0.014441058
Scnm1	sodium channel modifier 1	647 +/- 11	696 +/- 15	0.021076613
Sdc4	syndecan 4	357 +/- 7	392 +/- 6	0.002828763
Sdccag3	serologically defined colon cancer antigen 3	240 +/- 5	268 +/- 10	0.032549185
Sdf4	stromal cell derived factor 4	2302 +/- 54	2463 +/- 15	0.021425596
Sdha	Succinate dehydrogenase complex, subunit A, flavoprotein (Fp)	76 +/- 4	87 +/- 2	0.040894149
Sec61g	SEC61, gamma subunit	2213 +/- 76	2583 +/- 81	0.005583294
Selenbp1	selenium binding protein 1	249 +/- 10	288 +/- 5	0.005332388
Sephs2	selenophosphate synthetase 2	743 +/- 20	894 +/- 21	0.00011303
Sepw1	selenoprotein W, muscle 1	15810 +/- 338	16940 +/- 179	0.013576127
Serinc1	serine incorporator 1	8617 +/- 204	9175 +/- 152	0.047355682
Setd1a	SET domain containing 1A	606 +/- 22	700 +/- 20	0.007596427
Setd2	SET domain containing 2	799 +/- 13	877 +/- 23	0.013176414
Setd4	SET domain containing 4	165 +/- 7	193 +/- 9	0.026627553
Sf3b1	splicing factor 3b, subunit 1	2749 +/- 56	3122 +/- 71	0.001110802
Sf4	splicing factor 4	1070 +/- 28	1173 +/- 33	0.033039643
Sfrs5	splicing factor, arginine/serine-rich 5 (SRp40, HRS)	7848 +/- 154	8337 +/- 106	0.022129116

Sfrs7	splicing factor, arginine/serine-rich 7	262 +/- 13	330 +/- 11	0.001421511
Sfxn1	sideroflexin 1	1429 +/- 37	1541 +/- 36	0.047075988
Sharpin	SHANK-associated RH domain interacting protein	541 +/- 10	570 +/- 8	0.042280079
Siah1a	seven in absentia 1A	638 +/- 15	693 +/- 11	0.01216977
Sil1	endoplasmic reticulum chaperone SIL1 homolog (<i>S. cerevisiae</i>)	378 +/- 26	460 +/- 18	0.023288137
Sin3b	transcriptional regulator, SIN3B (yeast)	1174 +/- 23	1357 +/- 38	0.001616754
Sirt2	sirtuin 2 (silent mating type information regulation 2, homolog) 2 (<i>S. cerevisiae</i>)	2777 +/- 49	3042 +/- 50	0.002313966
Six6os1	Six6 opposite strand transcript 1	37 +/- 3	51 +/- 4	0.013620689
Slc12a9	Solute carrier family 12 (potassium/chloride transporters), member 9	91 +/- 5	122 +/- 3	0.000117854
Slc13a5	solute carrier family 13 (sodium-dependent citrate transporter), member 5	105 +/- 7	138 +/- 11	0.031517832
Slc1a3	solute carrier family 1 (glial high affinity glutamate transporter), member 3	4889 +/- 105	5196 +/- 74	0.033450503
Slc24a3	solute carrier family 24 (sodium/potassium/calcium exchanger), member 3	3787 +/- 79	4063 +/- 104	0.053726117
Slc25a16	solute carrier family 25 (mitochondrial carrier, Graves disease autoantigen), member 1	855 +/- 20	955 +/- 22	0.004901759
Slc25a28	solute carrier family 25, member 28	1055 +/- 19	1173 +/- 13	0.00021285
Slc25a29	solute carrier family 25 (mitochondrial carrier, palmitoylcarnitine transporter), member 2	347 +/- 12	383 +/- 11	0.05025329
Slc25a36	solute carrier family 25, member 36	1610 +/- 41	1809 +/- 23	0.001510221
Slc25a44	solute carrier family 25, member 44	768 +/- 17	841 +/- 9	0.004825626
Slc27a2	solute carrier family 27 (fatty acid transporter), member 2	184 +/- 13	224 +/- 8	0.024197202
Slc2a4	solute carrier family 2 (facilitated glucose transporter), member 4	76 +/- 6	151 +/- 9	2.51803E-05
Slc2a8	solute carrier family 2, (facilitated glucose transporter), member 8	469 +/- 12	542 +/- 13	0.001103751
Slc30a1	solute carrier family 30 (zinc transporter), member 1	1018 +/- 29	1117 +/- 33	0.041747216
Slc35b1	solute carrier family 35, member B1	1831 +/- 29	1941 +/- 40	0.044659005
Slc35b2	solute carrier family 35, member B2	64 +/- 5	79 +/- 3	0.029289108
Slc35b3	solute carrier family 35, member B3	493 +/- 8	573 +/- 8	1.08047E-05
Slc35e4	solute carrier family 35, member E4	220 +/- 6	243 +/- 7	0.025898644
Slc6a1		4667 +/- 100	5241 +/- 71	0.000473396
Slc6a6	solute carrier family 6 (neurotransmitter transporter, taurine), member 6	1510 +/- 24	1729 +/- 30	8.12706E-05
Slc6a8	solute carrier family 6 (neurotransmitter transporter, creatine), member 8	1486 +/- 23	1582 +/- 34	0.037315081
Slc7a7	solute carrier family 7 (cationic amino acid transporter, y+ system), member 7	56 +/- 3	81 +/- 8	0.019149226

Slc8a3	solute carrier family 8 (sodium/calcium exchanger), member 3	418 +/- 16	495 +/- 22	0.015431523
Slc9a6	solute carrier family 9 (sodium/hydrogen exchanger), isoform 6	4153 +/- 46	4348 +/- 73	0.046018261
Slit3	slit homolog 3 (Drosophila)	327 +/- 5	382 +/- 17	0.016211427
Smad1	MAD homolog 1 (Drosophila)	265 +/- 13	302 +/- 10	0.048914611
Smad4	MAD homolog 4 (Drosophila)	3130 +/- 69	3463 +/- 72	0.004791888
Smap1	stromal membrane-associated protein 1	1273 +/- 27	1375 +/- 38	0.04883567
Smc6	structural maintenance of chromosomes 6	464 +/- 12	545 +/- 22	0.008150385
Snap25	synaptosomal-associated protein 25	18504 +/- 255	20087 +/- 308	0.001679435
Snapap	SNAP-associated protein	393 +/- 11	450 +/- 21	0.037593685
Snopc4	small nuclear RNA activating complex, polypeptide 4	530 +/- 15	588 +/- 14	0.015100123
Snhg3	small nucleolar RNA host gene (non-protein coding) 3	85 +/- 5	114 +/- 6	0.002453294
Snrpa1	small nuclear ribonucleoprotein polypeptide A'	592 +/- 19	647 +/- 15	0.043525282
Snrpd2	small nuclear ribonucleoprotein D2	4527 +/- 51	5142 +/- 185	0.012367978
Snrpe	small nuclear ribonucleoprotein E	3427 +/- 45	3603 +/- 43	0.012671843
Snrpf	small nuclear ribonucleoprotein polypeptide F	603 +/- 29	689 +/- 25	0.046006611
Snrpn	Small nuclear ribonucleoprotein N	2716 +/- 64	3038 +/- 54	0.002297683
Snx10	sorting nexin 10	3254 +/- 49	3602 +/- 92	0.006866075
Snx17	sorting nexin 17	8023 +/- 126	8343 +/- 70	0.048544561
Snx19	sorting nexin 19	885 +/- 22	975 +/- 19	0.008462513
Snx7	sorting nexin 7	426 +/- 12	479 +/- 12	0.008035953
Socs2	suppressor of cytokine signaling 2	519 +/- 14	593 +/- 11	0.001257962
Sod1	superoxide dismutase 1, soluble	4199 +/- 62	4440 +/- 53	0.011358781
Son	Son cell proliferation protein	4208 +/- 48	4592 +/- 87	0.002689753
Sox17	SRY-box containing gene 17	133 +/- 6	158 +/- 7	0.017180995
Sox21	SRY-box containing gene 21	310 +/- 8	365 +/- 12	0.002713282
Sox9	SRY-box containing gene 9	403 +/- 10	444 +/- 16	0.04490761
Spata17	spermatogenesis associated 17	18 +/- 3	29 +/- 2	0.015216597
Spata5	spermatogenesis associated 5	98 +/- 8	121 +/- 7	0.04913688
Specc1	spectrin domain with coiled-coils 1	661 +/- 20	722 +/- 14	0.025991731

Speg	SPEG complex locus	62 +/- 4	83 +/- 7	0.020988944
Spin	spindlin	4229 +/- 50	4489 +/- 63	0.006265986
Spna2	spectrin alpha 2	7691 +/- 51	8065 +/- 73	0.001514706
Spnb2	spectrin beta 2	11253 +/- 171	11815 +/- 190	0.045412584
Sreb1	sterol regulatory element binding factor 1	1398 +/- 116	2795 +/- 124	1.02389E-06
Srp14	signal recognition particle 14	3065 +/- 49	3380 +/- 96	0.014628612
Ssbp4	single stranded DNA binding protein 4	2024 +/- 26	2265 +/- 80	0.020255158
Sst	somatostatin	4390 +/- 67	4867 +/- 109	0.002993136
Ssu72	Ssu72 RNA polymerase II CTD phosphatase homolog (yeast)	2261 +/- 24	2568 +/- 88	0.009897474
St6galnac5	ST6 (alpha-N-acetyl-neuraminy-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alph	3518 +/- 68	3842 +/- 63	0.003929142
Stamp	Stam binding protein	1015 +/- 12	1062 +/- 11	0.013598775
Stk24	Serine/threonine kinase 24 (STE20 homolog, yeast)	67 +/- 4	80 +/- 3	0.028511265
Stmn3	stathmin-like 3	8307 +/- 100	8793 +/- 70	0.002224181
Strn4	striatin, calmodulin binding protein 4	4266 +/- 115	4640 +/- 71	0.01796876
Stx17	syntaxin 17	592 +/- 28	673 +/- 20	0.03479103
Stxbp1	syntaxin binding protein 1	10369 +/- 244	11927 +/- 428	0.00895988
Stxbp5l	Syntaxin binding protein 5-like	1968 +/- 54	2143 +/- 52	0.034608981
Sub1	SUB1 homolog (S. cerevisiae)	4301 +/- 65	4618 +/- 24	0.001432468
Sumo1	SMT3 suppressor of mif two 3 homolog 1 (yeast)	3999 +/- 34	4176 +/- 53	0.015448625
Sumo2	SMT3 suppressor of mif two 3 homolog 2 (yeast)	8021 +/- 81	8518 +/- 88	0.001016943
Supt5h	suppressor of Ty 5 homolog (S. cerevisiae)	2564 +/- 51	2736 +/- 53	0.03740406
Supv3l1	suppressor of var1, 3-like 1 (S. cerevisiae)	623 +/- 5	679 +/- 15	0.006079154
Surf1	surfeit gene 1	2421 +/- 24	2598 +/- 37	0.001807976
Susd4	sushi domain containing 4	2109 +/- 43	2307 +/- 35	0.003471755
Susd5	sushi domain containing 5	73 +/- 4	91 +/- 6	0.023380045
Suz12	Suppressor of zeste 12 homolog (Drosophila)	27 +/- 2	36 +/- 3	0.015834579
Sv2a	synaptic vesicle glycoprotein 2 a	3060 +/- 70	3245 +/- 23	0.034654112
Syn2	synapsin II	3331 +/- 35	3530 +/- 36	0.00136618
Sync	syncoilin	24 +/- 3	36 +/- 1	0.004816477

Synj1	synaptojanin 1	9238 +/- 229	9983 +/- 54	0.01378884
Synpo2	synaptopodin 2	27 +/- 3	48 +/- 2	4.30743E-05
Syp	synaptophysin	8707 +/- 84	9078 +/- 78	0.007120542
Syt1	synaptotagmin I	14401 +/- 251	15709 +/- 333	0.008212741
Syt17	synaptotagmin XVII	1099 +/- 44	1242 +/- 34	0.024054899
Syt12	synaptotagmin-like 2	979 +/- 70	1162 +/- 26	0.038311146
Syt13	synaptotagmin-like 3	37 +/- 4	52 +/- 5	0.037671972
Tada1l	transcriptional adaptor 1 (HF11 homolog, yeast) like	248 +/- 12	283 +/- 4	0.023770608
Taf1c	TATA box binding protein (Tbp)-associated factor, RNA polymerase I, C	331 +/- 9	360 +/- 10	0.048309671
Taf9	TAF9 RNA polymerase II, TATA box binding protein (TBP)-associated factor	3444 +/- 25	3928 +/- 104	0.002107118
Tatdn1	TatD DNase domain containing 1	229 +/- 9	262 +/- 7	0.009730023
Tatdn2	TatD DNase domain containing 2	437 +/- 18	497 +/- 22	0.053388142
Tbc1d23	TBC1 domain family, member 23	372 +/- 10	416 +/- 15	0.031382081
Tbc1d9b	TBC1 domain family, member 9B	353 +/- 4	416 +/- 13	0.001930536
Tbca	tubulin cofactor a	4178 +/- 86	4514 +/- 111	0.032180524
Tbcc	tubulin-specific chaperone c	648 +/- 15	694 +/- 13	0.035209307
Tbce	tubulin-specific chaperone e	916 +/- 23	1002 +/- 28	0.033465132
Tbrg4	transforming growth factor beta regulated gene 4	317 +/- 7	390 +/- 20	0.007987772
Tcba1	T-cell lymphoma breakpoint associated target 1	1191 +/- 20	1334 +/- 30	0.001732145
Tcea1	transcription elongation factor A (SII) 1	2736 +/- 50	2908 +/- 39	0.018406347
Tcea2	transcription elongation factor A (SII), 2	928 +/- 21	1058 +/- 28	0.002620173
Tceb2	transcription elongation factor B (SIII), polypeptide 2	5203 +/- 77	5570 +/- 110	0.019536812
Tcerg1	transcription elongation regulator 1 (CA150)	2335 +/- 57	2502 +/- 38	0.032781946
Tcf25	transcription factor 25 (basic helix-loop-helix)	681 +/- 12	778 +/- 35	0.030820819
Tcirg1	T-cell, immune regulator 1, ATPase, H+ transporting, lysosomal V0 protein A3	231 +/- 5	253 +/- 8	0.028463676
Tcta	T-cell leukemia translocation altered gene	1195 +/- 14	1305 +/- 31	0.008910529
Tdo2	tryptophan 2,3-dioxygenase	272 +/- 14	324 +/- 20	0.054784074
Tek	endothelial-specific receptor tyrosine kinase	166 +/- 12	209 +/- 16	0.047269167
Tfpt	TCF3 (E2A) fusion partner	404 +/- 12	447 +/- 7	0.008315831

Tfrc	transferrin receptor	715 +/- 27	867 +/- 29	0.001971307
Thoc3	THO complex 3	388 +/- 11	417 +/- 7	0.051419789
Thumpd1	THUMP domain containing 1	973 +/- 15	1066 +/- 22	0.005928424
Tial1	Tia1 cytotoxic granule-associated RNA binding protein-like 1	812 +/- 19	912 +/- 25	0.008163008
Tieg3	TGFB inducible early growth response 3	248 +/- 9	291 +/- 7	0.001541063
Timm8b	translocase of inner mitochondrial membrane 8 homolog b (yeast)	2669 +/- 41	2899 +/- 65	0.011417326
Tinf2	Terf1 (TRF1)-interacting nuclear factor 2	328 +/- 9	386 +/- 6	0.000260933
Tipin	timeless interacting protein	645 +/- 11	730 +/- 17	0.001277528
Tk2	thymidine kinase 2, mitochondrial	604 +/- 12	687 +/- 20	0.003998507
Tkt	transketolase	2101 +/- 38	2338 +/- 59	0.005746633
Tlcd1	TLC domain containing 1	243 +/- 7	288 +/- 12	0.00802525
Tm2d2	TM2 domain containing 2	454 +/- 16	673 +/- 57	0.005716757
Tmcc3	transmembrane and coiled coil domains 3	1070 +/- 26	1137 +/- 15	0.044885787
Tmed2	transmembrane emp24 domain trafficking protein 2	5404 +/- 99	5719 +/- 71	0.023547729
Tmem115	transmembrane protein 115	633 +/- 13	682 +/- 14	0.022117333
Tmem159	transmembrane protein 159	345 +/- 7	386 +/- 10	0.003828871
Tmem24	transmembrane protein 24	1638 +/- 29	1811 +/- 57	0.022185105
Tmem25	transmembrane protein 25	1412 +/- 43	1525 +/- 16	0.035736756
Tmem28	transmembrane protein 28	2118 +/- 46	2258 +/- 45	0.047931042
Tmem90a	transmembrane protein 90a	111 +/- 7	134 +/- 5	0.017825514
Tmsb10	thymosin, beta 10	12726 +/- 203	14195 +/- 522	0.027566115
Tmsb4x	thymosin, beta 4, X chromosome	20417 +/- 689	22575 +/- 386	0.019532745
Tnfaip2	tumor necrosis factor, alpha-induced protein 2	25 +/- 2	32 +/- 3	0.036045458
Tnrc6c	trinucleotide repeat containing 6C	1910 +/- 38	2032 +/- 42	0.04789426
Tnrc9	trinucleotide repeat containing 9	866 +/- 29	951 +/- 28	0.05281395
Tpbp	trophoblast glycoprotein	34 +/- 3	45 +/- 2	0.009914906
Tpi1	triosephosphate isomerase 1	6597 +/- 47	7230 +/- 97	0.00015587
Tpt1	tumor protein, translationally-controlled 1	18050 +/- 549	19522 +/- 427	0.05380071
Traf4	Tnf receptor associated factor 4	49 +/- 5	77 +/- 8	0.013353939

Trappc3	trafficking protein particle complex 3	2703 +/- 26	2857 +/- 44	0.012338412
Trappc5	trafficking protein particle complex 5	463 +/- 26	604 +/- 32	0.004444336
Trat1	T cell receptor associated transmembrane adaptor 1	31 +/- 3	42 +/- 4	0.033383218
Trfr2	transferrin receptor 2	184 +/- 5	233 +/- 10	0.001034886
Trhr	thyrotropin releasing hormone receptor	382 +/- 24	476 +/- 21	0.012532934
Trim13	tripartite motif protein 13	457 +/- 10	483 +/- 6	0.045326625
Trim41	tripartite motif-containing 41	800 +/- 11	832 +/- 10	0.052350024
Trmu	tRNA 5-methylaminomethyl-2-thiouridylate methyltransferase	342 +/- 10	376 +/- 6	0.011902759
Trp53	transformation related protein 53	139 +/- 8	165 +/- 9	0.047503543
Trpm4	transient receptor potential cation channel, subfamily M, member 4	223 +/- 7	271 +/- 8	0.000574433
Trps1	trichorhinophalangeal syndrome I (human)	868 +/- 19	999 +/- 43	0.020222902
Trspap1	tRNA selenocysteine associated protein 1	297 +/- 8	348 +/- 14	0.008451294
Trub2	TruB pseudouridine (psi) synthase homolog 2 (E. coli)	355 +/- 31	449 +/- 18	0.02386384
Tsc1	tuberous sclerosis 1	79 +/- 3	101 +/- 6	0.011247817
Tspan2	tetraspanin 2	1102 +/- 32	1300 +/- 43	0.002703645
Tspan4	tetraspanin 4	248 +/- 14	314 +/- 14	0.00489265
Tspan7	tetraspanin 7	13032 +/- 184	14347 +/- 218	0.000500391
Tspyl2	TSPY-like 2	1570 +/- 44	1708 +/- 26	0.021240266
Tspyl3	TSPY-like 3	791 +/- 29	880 +/- 15	0.019839102
Tssc1	tumor suppressing subtransferable candidate 1	167 +/- 8	196 +/- 8	0.022265842
Ttc13	tetratricopeptide repeat domain 13	1200 +/- 18	1273 +/- 13	0.00633718
Ttc27	tetratricopeptide repeat domain 27	365 +/- 15	424 +/- 10	0.006577769
Ttc3	tetratricopeptide repeat domain 3	9012 +/- 128	9591 +/- 148	0.010390627
Ttrap	Traf and Tnf receptor associated protein	767 +/- 23	837 +/- 15	0.025566054
Ttyh2	tweety homolog 2 (Drosophila)	568 +/- 27	652 +/- 27	0.04242673
Tubb5	tubulin, beta 5	9050 +/- 210	9589 +/- 97	0.042856756
Txndc14	thioredoxin domain containing 14	4309 +/- 28	4495 +/- 70	0.038487798
Txnd3	thioredoxin reductase 3	98 +/- 4	117 +/- 4	0.003902239
Tyw1	tRNA-yW synthesizing protein 1 homolog (S. cerevisiae)	130 +/- 3	154 +/- 10	0.043602544

Uba52	ubiquitin A-52 residue ribosomal protein fusion product 1	10855 +/- 145	11934 +/- 294	0.007945828
Ubb	ubiquitin B	16301 +/- 648	18066 +/- 491	0.049034661
Ubc	ubiquitin C	8124 +/- 121	8724 +/- 162	0.0113451
Ube2n	ubiquitin-conjugating enzyme E2N	3149 +/- 60	3501 +/- 86	0.005814423
Ube2r2	Ubiquitin-conjugating enzyme E2R 2	162 +/- 24	309 +/- 61	0.051052652
Ubl5	ubiquitin-like 5	626 +/- 19	690 +/- 21	0.038872099
Ufc1	ubiquitin-fold modifier conjugating enzyme 1	2658 +/- 61	2839 +/- 45	0.033651267
Unc84b	unc-84 homolog B (C. elegans)	59 +/- 4	77 +/- 6	0.04035898
Ung2	uracil DNA glycosylase 2	125 +/- 5	145 +/- 7	0.040988871
Uqcrh	ubiquinol-cytochrome c reductase hinge protein	6785 +/- 110	7179 +/- 140	0.044898729
Uqcrq	ubiquinol-cytochrome c reductase, complex III subunit VII	4812 +/- 30	5157 +/- 130	0.033380005
Usf2	upstream transcription factor 2	606 +/- 10	675 +/- 21	0.012808821
Usmg5	upregulated during skeletal muscle growth 5	6974 +/- 363	8271 +/- 410	0.034617372
Usp19	ubiquitin specific peptidase 19	863 +/- 18	945 +/- 23	0.014656261
Usp2	ubiquitin specific peptidase 2	1378 +/- 44	1610 +/- 42	0.002164923
Usp3	ubiquitin specific peptidase 3	399 +/- 10	447 +/- 18	0.038396827
Usp34	ubiquitin specific peptidase 34	2723 +/- 35	2864 +/- 48	0.033451719
Utp15	UTP15, U3 small nucleolar ribonucleoprotein, homolog (yeast)	568 +/- 13	639 +/- 24	0.022017134
Vangl2	vang-like 2 (van gogh, Drosophila)	168 +/- 3	184 +/- 6	0.031676322
Vcpip1	valosin containing protein (p97)/p47 complex interacting protein 1	957 +/- 32	1054 +/- 18	0.022801297
Vdac1	voltage-dependent anion channel 1	8053 +/- 59	8604 +/- 100	0.000849976
Vegfa	vascular endothelial growth factor A	193 +/- 14	245 +/- 15	0.02291591
Vldlr	very low density lipoprotein receptor	1024 +/- 26	1139 +/- 19	0.003490762
Vps11	vacuolar protein sorting 11 (yeast)	699 +/- 11	757 +/- 13	0.004437623
Vps25	vacuolar protein sorting 25 (yeast)	919 +/- 19	1014 +/- 37	0.04424441
Vps45	vacuolar protein sorting 45 (yeast)	935 +/- 33	1053 +/- 40	0.039460876
Vps53	vacuolar protein sorting 53 (yeast)	1597 +/- 43	1733 +/- 34	0.027371142
Vrk1	vaccinia related kinase 1	266 +/- 9	308 +/- 10	0.006208406
Wasf1	WASP family 1	8831 +/- 69	9481 +/- 101	0.000270821

Wbscr18	Williams-Beuren syndrome chromosome region 18 homolog (human)	2055 +/- 33	2161 +/- 31	0.036156651
Wdr33	WD repeat domain 33	190 +/- 5	213 +/- 9	0.053829575
Wdr34	WD repeat domain 34	386 +/- 13	429 +/- 15	0.050537141
Wdr37	WD repeat domain 37	932 +/- 13	1005 +/- 20	0.011410769
Wdr43	WD repeat domain 43	454 +/- 7	480 +/- 7	0.022021565
Wdr51a	WD repeat domain 51A	81 +/- 7	99 +/- 4	0.041037517
Wdr6	WD repeat domain 6	3110 +/- 82	3950 +/- 202	0.003690095
Wdr67	WD repeat domain 67	35 +/- 4	49 +/- 2	0.009080662
Wdr75	WD repeat domain 75	164 +/- 6	187 +/- 1	0.005522695
Whsc1	Wolf-Hirschhorn syndrome candidate 1 (human)	926 +/- 11	977 +/- 16	0.022413027
Wipf1	WAS/WASL interacting protein family, member 1	247 +/- 6	267 +/- 5	0.022443348
Wnt2	wingless-related MMTV integration site 2	62 +/- 5	81 +/- 4	0.01699448
Wnt9a	wingless-type MMTV integration site 9A	228 +/- 17	270 +/- 6	0.046240039
Xab2	XPA binding protein 2	429 +/- 13	481 +/- 15	0.021345841
Xpc	xeroderma pigmentosum, complementation group C	273 +/- 3	298 +/- 10	0.038069077
Xrn2	5'-3' exoribonuclease 2	466 +/- 8	507 +/- 16	0.043795621
Ywhab	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta polyp	14459 +/- 166	15460 +/- 206	0.002351743
Ywhae	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polyp	13129 +/- 187	13963 +/- 223	0.012826046
Ywhaq	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polyp	9741 +/- 110	10995 +/- 261	0.001514031
Ywhaz	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polyp	7712 +/- 97	8263 +/- 104	0.001694449
Yy1	YY1 transcription factor	1779 +/- 37	1882 +/- 26	0.043643783
Zbtb22	zinc finger and BTB domain containing 22	1031 +/- 23	1152 +/- 17	0.001160742
Zc3h14	zinc finger CCCH type containing 14	2199 +/- 34	2383 +/- 37	0.002516462
Zcchc14	zinc finger, CCHC domain containing 14	122 +/- 3	152 +/- 6	0.002808529
Zcchc4	zinc finger, CCHC domain containing 4	171 +/- 7	201 +/- 7	0.011497399
Zdhhc2	zinc finger, DHHC domain containing 2	376 +/- 12	438 +/- 13	0.003793801
Zdhhc3	zinc finger, DHHC domain containing 3	1053 +/- 19	1122 +/- 26	0.050260139
Zdhhc4	zinc finger, DHHC domain containing 4	786 +/- 17	864 +/- 22	0.013994965
Zdhhc7	zinc finger, DHHC domain containing 7	698 +/- 16	739 +/- 10	0.04230238

Zdhc9	zinc finger, DHHC domain containing 9	450 +/- 26	516 +/- 13	0.042499899
Zfand2a	zinc finger, AN1-type domain 2A	679 +/- 28	822 +/- 42	0.014751918
Zfp1	zinc finger protein 1	375 +/- 14	441 +/- 22	0.02450214
Zfp13	zinc finger protein 13	242 +/- 12	272 +/- 6	0.044461627
Zfp28	zinc finger protein 28	214 +/- 8	254 +/- 11	0.01197031
Zfp318	zinc finger protein 318	799 +/- 9	864 +/- 13	0.001171251
Zfp334	zinc finger protein 334	368 +/- 7	394 +/- 5	0.011190595
Zfp398	zinc finger protein 398	44 +/- 1	60 +/- 5	0.014334405
Zfp407	zinc finger protein 407	454 +/- 4	500 +/- 8	0.00100448
Zfp414	zinc finger protein 414	1087 +/- 11	1170 +/- 29	0.02549078
Zfp46	zinc finger protein 46	1290 +/- 36	1533 +/- 33	0.000201868
Zfp511	zinc finger protein 511	197 +/- 10	232 +/- 13	0.050452453
Zfp536	zinc finger protein 536	510 +/- 11	564 +/- 20	0.038557166
Zfp560	zinc finger protein 560	531 +/- 13	628 +/- 19	0.00109276
Zfp622	zinc finger protein 622	123 +/- 12	167 +/- 12	0.020379777
Zfp654	zinc finger protein 654	426 +/- 14	470 +/- 13	0.040541611
Zfp740	zinc finger protein 740	586 +/- 11	625 +/- 4	0.009877456
Zfp746	zinc finger protein 746	481 +/- 10	513 +/- 7	0.017919795
Zfpm1	zinc finger protein, multitype 1	134 +/- 3	156 +/- 8	0.035297172
Zfyve21	zinc finger, FYVE domain containing 21	356 +/- 6	394 +/- 7	0.001524287
Zmym3	zinc finger, MYM-type 3	936 +/- 19	1113 +/- 57	0.017338932
Znhit2	zinc finger, HIT domain containing 2	953 +/- 14	1031 +/- 21	0.008939141
Znhit3	zinc finger, HIT type 3	804 +/- 9	842 +/- 13	0.031390271
Zscan21	zinc finger and SCAN domain containing 21	232 +/- 4	285 +/- 8	0.000145309
Zswim1	zinc finger, SWIM domain containing 1	914 +/- 13	1011 +/- 18	0.000944007
Zyx	zyxin	771 +/- 17	829 +/- 15	0.022952934
	Downregulated by T0901317			
39144	membrane-associated ring finger (C3HC4) 3	68 +/- 5	52 +/- 5	0.030283416

39336	septin 11	806 +/- 16	705 +/- 15	0.000401893
	START domain containing 3	734 +/- 15	618 +/- 12	3.02816E-05
	protein phosphatase 1, regulatory (inhibitor) subunit 3C	1077 +/- 63	876 +/- 34	0.016959271
AA408396	expressed sequence AA408396	32 +/- 3	20 +/- 4	0.0281988
AA987161	expressed sequence AA987161	353 +/- 18	295 +/- 18	0.035890573
Aak1	AP2 associated kinase 1	870 +/- 18	783 +/- 26	0.017282511
Aaif	apoptosis antagonizing transcription factor	49 +/- 2	39 +/- 3	0.027144947
Abcb10	ATP-binding cassette, sub-family B (MDR/TAP), member 10	359 +/- 9	326 +/- 8	0.017440117
Abcb1a	ATP-binding cassette, sub-family B (MDR/TAP), member 1A	243 +/- 11	213 +/- 8	0.048648099
Abcb1b	ATP-binding cassette, sub-family B (MDR/TAP), member 1B	59 +/- 3	41 +/- 4	0.004706941
Abcb7	ATP-binding cassette, sub-family B (MDR/TAP), member 7	1485 +/- 34	1357 +/- 40	0.028070445
Abcb9	ATP-binding cassette, sub-family B (MDR/TAP), member 9	299 +/- 8	266 +/- 13	0.048425099
Abcc5	ATP-binding cassette, sub-family C (CFTR/MRP), member 5	812 +/- 16	749 +/- 21	0.034176091
Abcd1	ATP-binding cassette, sub-family D (ALD), member 1	382 +/- 11	351 +/- 4	0.028225645
Abi3bp	ABI gene family, member 3 (NESH) binding protein	72 +/- 7	47 +/- 3	0.005964657
Ablim1	actin-binding LIM protein 1	307 +/- 10	258 +/- 3	0.001400748
Acadm	acyl-Coenzyme A dehydrogenase, medium chain	1728 +/- 30	1578 +/- 30	0.003439994
Acbd3	acyl-Coenzyme A binding domain containing 3	327 +/- 10	261 +/- 10	0.000406332
Ace2	angiotensin I converting enzyme (peptidyl-dipeptidase A) 2	56 +/- 2	46 +/- 2	0.000661988
Acin1	apoptotic chromatin condensation inducer 1	611 +/- 17	564 +/- 11	0.034557881
Acn9	ACN9 homolog (S. cerevisiae)	645 +/- 7	545 +/- 8	3.7741E-07
Acot8	acyl-CoA thioesterase 8	433 +/- 15	371 +/- 15	0.010542523
Acsl4	acyl-CoA synthetase long-chain family member 4	948 +/- 16	853 +/- 29	0.014545196
Actn4	actinin alpha 4	1736 +/- 22	1651 +/- 14	0.00738274
Acvr2a	activin receptor IIA	514 +/- 18	470 +/- 8	0.050078524
Adal	adenosine deaminase-like	290 +/- 8	247 +/- 7	0.001043874
Adam10	a disintegrin and metallopeptidase domain 10	381 +/- 8	351 +/- 11	0.049248718
Adam17	a disintegrin and metallopeptidase domain 17	277 +/- 7	225 +/- 10	0.001400314
Adam19	a disintegrin and metallopeptidase domain 19 (meltrin beta)	71 +/- 4	56 +/- 3	0.01312033

Adam8	a disintegrin and metallopeptidase domain 8	154 +/- 8	116 +/- 6	0.002848813
Adamtsl3	ADAMTS-like 3	113 +/- 7	93 +/- 5	0.035124499
Adc	arginine decarboxylase	201 +/- 7	176 +/- 6	0.017766321
Adcyap1r1	adenylate cyclase activating polypeptide 1 receptor 1	523 +/- 17	440 +/- 15	0.002903405
Add1	adducin 1 (alpha)	4216 +/- 93	3852 +/- 38	0.005198871
Adipor1	adiponectin receptor 1	1732 +/- 33	1622 +/- 28	0.023436497
Aebp2	AE binding protein 2	496 +/- 8	436 +/- 21	0.024466752
Aff2	AF4/FMR2 family, member 2	85 +/- 6	64 +/- 5	0.020894934
Agpat1	1-acylglycerol-3-phosphate O-acyltransferase 1 (lysophosphatidic acid acyltran	1140 +/- 27	1018 +/- 41	0.028554768
Agpat3	1-acylglycerol-3-phosphate O-acyltransferase 3	755 +/- 9	710 +/- 5	0.001085389
Agpat5	1-acylglycerol-3-phosphate O-acyltransferase 5 (lysophosphatidic acid acyltran	813 +/- 12	758 +/- 9	0.004011098
Agpat6	1-acylglycerol-3-phosphate O-acyltransferase 6 (lysophosphatidic acid acyltran	118 +/- 8	83 +/- 5	0.003256094
Agpat7	1-acylglycerol-3-phosphate O-acyltransferase 7 (lysophosphatidic acid acyltran	716 +/- 20	636 +/- 25	0.026506828
Ahctf1	AT hook containing transcription factor 1	821 +/- 16	768 +/- 19	0.054466838
Ahcy1	S-adenosylhomocysteine hydrolase-like 1	4750 +/- 79	4417 +/- 111	0.02951301
AI115600	expressed sequence AI115600	886 +/- 15	828 +/- 20	0.037628292
AI120166	expressed sequence AI120166	234 +/- 9	209 +/- 4	0.034555125
AI314180	expressed sequence AI314180	239 +/- 8	206 +/- 6	0.007360867
AI465270	expressed sequence AI465270	194 +/- 8	170 +/- 3	0.024226098
AI480653	expressed sequence AI480653	277 +/- 6	252 +/- 7	0.017493172
AI597468	expressed sequence AI597468	2012 +/- 35	1847 +/- 27	0.002612718
AI838057	expressed sequence AI838057	194 +/- 12	152 +/- 15	0.045978339
AI851716	expressed sequence AI851716	1365 +/- 21	1223 +/- 17	0.000153229
AI987944	expressed sequence AI987944	261 +/- 10	234 +/- 5	0.034384698
Aifm1	apoptosis-inducing factor, mitochondrion-associated 1	787 +/- 27	710 +/- 25	0.05422642
AK162044	cDNA sequence AK162044	128 +/- 6	110 +/- 5	0.033415727
Ak2	adenylate kinase 2	354 +/- 7	316 +/- 14	0.037596105
Ak3l1	adenylate kinase 3 alpha-like 1	1356 +/- 61	1156 +/- 45	0.021042014
Akap10	A kinase (PRKA) anchor protein 10	325 +/- 8	291 +/- 7	0.00471415

Akap6	A kinase (PRKA) anchor protein 6	161 +/- 10	127 +/- 10	0.032804811
Akt2	thymoma viral proto-oncogene 2	169 +/- 9	141 +/- 4	0.017376406
Aldh1a1	aldehyde dehydrogenase family 1, subfamily A1	1113 +/- 58	953 +/- 36	0.038334997
Aldh1a7	aldehyde dehydrogenase family 1, subfamily A7	44 +/- 5	32 +/- 2	0.039914945
Aldh1l2	aldehyde dehydrogenase 1 family, member L2	150 +/- 5	123 +/- 9	0.025121726
Alg8	asparagine-linked glycosylation 8 homolog (yeast, alpha-1,3-glucosyltransferase)	371 +/- 14	322 +/- 10	0.015049704
Alkbh5	alkB, alkylation repair homolog 5 (E. coli)	682 +/- 24	583 +/- 9	0.004209126
Alox5ap	arachidonate 5-lipoxygenase activating protein	314 +/- 12	257 +/- 10	0.003272555
Als2	amyotrophic lateral sclerosis 2 (juvenile) homolog (human)	39 +/- 2	32 +/- 1	0.018290072
Amacr	alpha-methylacyl-CoA racemase	482 +/- 7	455 +/- 8	0.034354954
Amd1	S-adenosylmethionine decarboxylase 1	4192 +/- 54	4007 +/- 54	0.030204057
Amhr2	anti-Mullerian hormone type 2 receptor	88 +/- 4	71 +/- 7	0.047925843
Amot	angiomin	753 +/- 41	637 +/- 20	0.030408177
Amotl1	angiomin-like 1	474 +/- 10	421 +/- 19	0.029477671
Anapc4	anaphase promoting complex subunit 4	2207 +/- 33	2112 +/- 21	0.033437153
Ankib1	Ankyrin repeat and IBR domain containing 1	88 +/- 5	71 +/- 4	0.013178788
Ankrd17	ankyrin repeat domain 17	609 +/- 11	559 +/- 10	0.004579404
Ankrd29	ankyrin repeat domain 29	205 +/- 12	163 +/- 13	0.037953363
Ankrd45	ankyrin repeat domain 45	313 +/- 8	247 +/- 10	0.000190319
Ankrd50	ankyrin repeat domain 50	1282 +/- 51	1126 +/- 39	0.031704133
Anxa4	annexin A4	197 +/- 16	148 +/- 12	0.02829992
Anxa5	annexin A5	1736 +/- 47	1585 +/- 35	0.02334651
Anxa6	annexin A6	1217 +/- 22	1138 +/- 29	0.047034143
Ap3s2	adaptor-related protein complex 3, sigma 2 subunit	218 +/- 13	179 +/- 10	0.039005234
Apbb2	amyloid beta (A4) precursor protein-binding, family B, member 2	265 +/- 14	227 +/- 7	0.033820078
Aqp4	aquaporin 4	768 +/- 35	623 +/- 29	0.007159134
Aqr	aquarius	133 +/- 6	114 +/- 7	0.049643446
Arcn1	archain 1	2535 +/- 42	2221 +/- 92	0.011473373
Arfip1	ADP-ribosylation factor interacting protein 1	830 +/- 35	713 +/- 15	0.013205394

Arhgap12	Rho GTPase activating protein 12	382 +/- 12	337 +/- 13	0.023442465
Arhgap24	Rho GTPase activating protein 24	197 +/- 8	172 +/- 5	0.018259298
Arhgap30	Rho GTPase activating protein 30	138 +/- 5	117 +/- 4	0.006750926
Arhgap8	Rho GTPase activating protein 8	64 +/- 6	45 +/- 5	0.028548718
Arhgdib	Rho, GDP dissociation inhibitor (GDI) beta	415 +/- 13	380 +/- 7	0.036753665
Arhgef7	Rho guanine nucleotide exchange factor (GEF7)	1264 +/- 34	1130 +/- 35	0.015286237
Arid4a	AT rich interactive domain 4A (Rbp1 like)	80 +/- 1	55 +/- 8	0.018183811
Arid5b	AT rich interactive domain 5B (Mrf1 like)	188 +/- 9	157 +/- 7	0.015434058
Arih1	ariadne ubiquitin-conjugating enzyme E2 binding protein homolog 1 (Drosophila)	692 +/- 16	625 +/- 16	0.009159655
Arl5b	ADP-ribosylation factor-like 5B	55 +/- 2	49 +/- 1	0.034438711
Armet	arginine-rich, mutated in early stage tumors	1638 +/- 35	1520 +/- 30	0.022757678
Arnt	aryl hydrocarbon receptor nuclear translocator	86 +/- 4	74 +/- 4	0.053577533
Arnt2	aryl hydrocarbon receptor nuclear translocator 2	488 +/- 23	412 +/- 25	0.043193258
Arntl	aryl hydrocarbon receptor nuclear translocator-like	756 +/- 33	665 +/- 19	0.034792084
Arpc2	Actin related protein 2/3 complex, subunit 2	173 +/- 4	155 +/- 5	0.025472233
Arpp19	cAMP-regulated phosphoprotein 19	1870 +/- 81	1654 +/- 51	0.044947688
Asb7	ankyrin repeat and SOCS box-containing protein 7	157 +/- 5	130 +/- 7	0.005761605
Ascc3	activating signal cointegrator 1 complex subunit 3	111 +/- 2	88 +/- 3	2.78419E-05
Asrgl1	asparaginase like 1	1093 +/- 26	994 +/- 14	0.005866228
Asxl1	additional sex combs like 1 (Drosophila)	1110 +/- 19	1057 +/- 13	0.044319344
Atad1	ATPase family, AAA domain containing 1	139 +/- 9	116 +/- 6	0.049430459
Atad2b	ATPase family, AAA domain containing 2B	959 +/- 24	894 +/- 11	0.034375664
Atbf1	AT motif binding factor 1	90 +/- 5	76 +/- 4	0.050760046
Ate1	arginine-tRNA-protein transferase 1	516 +/- 16	462 +/- 16	0.033195501
Atf6	activating transcription factor 6	1023 +/- 17	937 +/- 28	0.023863722
Atg12	autophagy-related 12 (yeast)	1168 +/- 37	1045 +/- 23	0.015508251
Atg4b	autophagy-related 4B (yeast)	963 +/- 12	888 +/- 13	0.00085962
Atm	ataxia telangiectasia mutated homolog (human)	223 +/- 11	191 +/- 9	0.036366037
Atp11a	ATPase, class VI, type 11A	878 +/- 38	784 +/- 14	0.046149242

Atp11c	Atpase, class VI, type 11C	27 +/- 3	19 +/- 2	0.052366802
Atp1a2	ATPase, Na+/K+ transporting, alpha 2 polypeptide	4537 +/- 137	4167 +/- 89	0.043179094
Atp2a2	ATPase, Ca++ transporting, cardiac muscle, slow twitch 2	776 +/- 14	717 +/- 17	0.017562482
Atp2a3	ATPase, Ca++ transporting, ubiquitous	158 +/- 8	139 +/- 4	0.044914744
Atp2c1	ATPase, Ca++-sequestering	1653 +/- 21	1532 +/- 26	0.003491743
Atp5s	ATP synthase, H+ transporting, mitochondrial F0 complex, subunit s	985 +/- 31	889 +/- 9	0.017253421
Atp6v0a2	ATPase, H+ transporting, lysosomal V0 subunit A2	286 +/- 8	239 +/- 10	0.002594216
Atp6v1f	ATPase, H+ transporting, lysosomal V1 subunit F	5154 +/- 70	4952 +/- 61	0.047859015
Atrn	atractin	372 +/- 17	303 +/- 11	0.004557708
Atxn7l4	ataxin 7-like 4	546 +/- 14	476 +/- 23	0.024482452
AU020772	expressed sequence AU020772	435 +/- 12	391 +/- 12	0.024666282
AU021128	expressed sequence AU021128	90 +/- 4	74 +/- 6	0.040431953
AU045128	expressed sequence AU045128	187 +/- 14	145 +/- 5	0.020615574
AV009015	expressed sequence AV009015	2268 +/- 29	2158 +/- 37	0.036103061
AV025504	expressed sequence AV025504	578 +/- 18	508 +/- 25	0.040896098
AW060742	expressed sequence AW060742	1561 +/- 34	1429 +/- 19	0.006203346
AW061290	expressed sequence AW061290	70 +/- 3	57 +/- 4	0.02436858
AW125296	expressed sequence AW125296	1274 +/- 15	1122 +/- 46	0.012497571
AW492955	expressed sequence AW492955	175 +/- 11	135 +/- 7	0.007659626
Axin1	Axin 1	103 +/- 5	81 +/- 5	0.007151053
Axin2	axin2	510 +/- 18	455 +/- 18	0.048499635
Aytl2	acyltransferase like 2	1481 +/- 30	1401 +/- 10	0.031693621
B3galt2	UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 2	287 +/- 7	264 +/- 5	0.017476959
B4galt2	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 2	401 +/- 13	355 +/- 10	0.012896263
Baalc	brain and acute leukemia, cytoplasmic	1701 +/- 17	1637 +/- 21	0.035678392
Bag4	BCL2-associated athanogene 4	1034 +/- 27	949 +/- 25	0.03858873
Bat4	HLA-B associated transcript 4	335 +/- 15	198 +/- 25	0.000813325
Baz1b	bromodomain adjacent to zinc finger domain, 1B	329 +/- 4	305 +/- 6	0.00622608
BB166591	expressed sequence BB166591	157 +/- 9	123 +/- 12	0.044261922

BB182297	expressed sequence BB182297	252 +/- 5	225 +/- 11	0.049588863
BB220380	expressed sequence BB220380	433 +/- 17	363 +/- 19	0.015535554
Bbs10	Bardet-Biedl syndrome 10 (human)	108 +/- 4	96 +/- 3	0.028541044
BC005537	cDNA sequence BC005537	193 +/- 5	173 +/- 6	0.02617069
BC010584	CDNA sequence BC010584	791 +/- 15	703 +/- 22	0.006487075
BC016495	cDNA sequence BC016495	132 +/- 5	112 +/- 5	0.015539611
BC019943	cDNA sequence BC019943	167 +/- 5	152 +/- 2	0.025160947
BC023179	cDNA sequence BC023179	79 +/- 6	63 +/- 4	0.052048642
BC024814	cDNA sequence BC024814	62 +/- 4	48 +/- 3	0.014190911
BC031748	cDNA sequence BC031748	238 +/- 7	206 +/- 13	0.048788527
BC032203	CDNA sequence BC032203	154 +/- 11	123 +/- 6	0.030658523
BC038925	cDNA sequence BC038925	96 +/- 4	77 +/- 4	0.008767614
BC057893	cDNA sequence BC057893	176 +/- 7	151 +/- 6	0.015558514
BC068171	cDNA sequence BC068171	1041 +/- 19	944 +/- 12	0.000967851
Bcat1	branched chain aminotransferase 1, cytosolic	1846 +/- 46	1716 +/- 32	0.038377203
Bcdo2	beta-carotene 9', 10'-dioxygenase 2	154 +/- 6	131 +/- 8	0.051822085
Bckdhb	branched chain ketoacid dehydrogenase E1, beta polypeptide	1383 +/- 21	1272 +/- 41	0.034995368
Bcl11a	B-cell CLL/lymphoma 11A (zinc finger protein)	34 +/- 2	25 +/- 3	0.031670653
Bcl2l11	BCL2-like 11 (apoptosis facilitator)	60 +/- 3	50 +/- 4	0.050065336
Bcl2l2	Bcl2-like 2	211 +/- 6	182 +/- 9	0.023386686
Bcl6	B-cell leukemia/lymphoma 6	450 +/- 19	391 +/- 10	0.019425655
Bdp1	B double prime 1, subunit of RNA polymerase III transcription initiation factor II	1212 +/- 21	1099 +/- 28	0.006733891
BF642829	expressed sequence BF642829	1788 +/- 54	1453 +/- 57	0.000785105
Bfar	bifunctional apoptosis regulator	793 +/- 19	729 +/- 15	0.0186673
Bgn	biglycan	306 +/- 25	219 +/- 14	0.012265679
Bicd2	bicaudal D homolog 2 (Drosophila)	466 +/- 7	409 +/- 8	0.000173247
Birc1b	baculoviral IAP repeat-containing 1b	47 +/- 3	32 +/- 3	0.004434321
Birc6	baculoviral IAP repeat-containing 6	111 +/- 6	75 +/- 15	0.048862156
Bmi1	B lymphoma Mo-MLV insertion region 1	1689 +/- 101	1395 +/- 50	0.025922615

Bmp6	Bone morphogenetic protein 6	95 +/- 5	76 +/- 4	0.008452116
Bmpr1a	bone morphogenetic protein receptor, type 1A	228 +/- 4	203 +/- 10	0.045648876
Bmpr2	bone morphogenetic protein receptor, type II (serine/threonine kinase)	203 +/- 6	177 +/- 8	0.017667094
Bptf	bromodomain PHD finger transcription factor	112 +/- 8	90 +/- 6	0.046442047
Brd4	Bromodomain containing 4	522 +/- 17	459 +/- 17	0.01973497
Btaf1	BTAF1 RNA polymerase II, B-TFIID transcription factor-associated, (Mot1 hom	702 +/- 17	627 +/- 10	0.003192166
Btbd14a	BTB (POZ) domain containing 14A	1279 +/- 24	1184 +/- 18	0.007767038
Btla	B and T lymphocyte associated	57 +/- 3	45 +/- 4	0.054606789
Btrc	beta-transducin repeat containing protein	849 +/- 24	764 +/- 27	0.035672071
Bxdc2	brix domain containing 2	208 +/- 6	158 +/- 6	3.85565E-05
C1galt1c1	C1GALT1-specific chaperone 1	1547 +/- 42	1430 +/- 30	0.04096004
C1qc	complement component 1, q subcomponent, C chain	1127 +/- 70	942 +/- 26	0.036502532
C77713	expressed sequence C77713	382 +/- 22	313 +/- 17	0.028182329
C80012	expressed sequence C80012	188 +/- 9	164 +/- 7	0.05263662
C87436	expressed sequence C87436	55 +/- 5	44 +/- 2	0.044342757
Cacna2d1	calcium channel, voltage-dependent, alpha2/delta subunit 1	688 +/- 29	570 +/- 36	0.025154317
Cacng7	calcium channel, voltage-dependent, gamma subunit 7	143 +/- 6	120 +/- 7	0.025175017
Calcr1	calcitonin receptor-like	82 +/- 3	55 +/- 4	0.000123403
Calm3	calmodulin 3	2055 +/- 22	1920 +/- 43	0.021516377
Calr	calreticulin	6030 +/- 70	5405 +/- 101	0.000268212
Camsap111	calmodulin regulated spectrin-associated protein 1-like 1	3928 +/- 61	3632 +/- 73	0.008450946
Canx	calnexin	1955 +/- 22	1818 +/- 52	0.038463126
Capg	capping protein (actin filament), gelsolin-like	114 +/- 8	84 +/- 8	0.017849193
Cast	calpastatin	171 +/- 3	148 +/- 9	0.047983905
Cbfa2t3h	core-binding factor, runt domain, alpha subunit 2, translocated to, 3 homolog (f	580 +/- 27	504 +/- 16	0.036655674
Cblb	Casitas B-lineage lymphoma b	202 +/- 6	168 +/- 5	0.000412952
Cbx1	chromobox homolog 1 (Drosophila HP1 beta)	434 +/- 8	402 +/- 6	0.010736758
Cbx2	chromobox homolog 2 (Drosophila Pc class)	145 +/- 6	127 +/- 4	0.029430872
Cbx3	chromobox homolog 3 (Drosophila HP1 gamma)	143 +/- 8	119 +/- 7	0.037426033

Cbx5	chromobox homolog 5 (Drosophila HP1a)	1257 +/- 20	1133 +/- 31	0.006000806
Ccar1	cell division cycle and apoptosis regulator 1	98 +/- 4	75 +/- 4	0.001207874
Ccdc113	coiled-coil domain containing 113	46 +/- 6	31 +/- 3	0.04117314
Ccdc117	coiled-coil domain containing 117	287 +/- 16	224 +/- 9	0.004850321
Ccdc13	coiled-coil domain containing 13	282 +/- 18	224 +/- 17	0.032085373
Ccdc16	coiled-coil domain containing 16	277 +/- 7	253 +/- 7	0.023422031
Ccdc21	coiled-coil domain containing 21	278 +/- 8	249 +/- 10	0.041929313
Ccdc22	coiled-coil domain containing 22	314 +/- 8	279 +/- 8	0.009252394
Ccdc25	coiled-coil domain containing 25	135 +/- 5	100 +/- 6	0.000898019
Ccdc38	coiled-coil domain containing 38	28 +/- 3	19 +/- 2	0.028336075
Ccdc43	coiled-coil domain containing 43	111 +/- 5	86 +/- 3	0.001334428
Ccdc51	coiled-coil domain containing 51	190 +/- 10	146 +/- 9	0.00596252
Ccdc82	Coiled-coil domain containing 82	29 +/- 0	21 +/- 2	0.003028892
Ccdc85a	coiled-coil domain containing 85A	552 +/- 42	435 +/- 36	0.053929505
Ccdc9	coiled-coil domain containing 9	248 +/- 7	207 +/- 6	0.000721218
Ccdc90b	coiled-coil domain containing 90B	989 +/- 21	935 +/- 14	0.050860546
Ccdc95	coiled-coil domain containing 95	247 +/- 6	230 +/- 4	0.034913956
Ccng1	cyclin G1	1631 +/- 32	1472 +/- 34	0.004128124
Ccng2	cyclin G2	1101 +/- 25	1008 +/- 18	0.010030098
Ccpg1	cell cycle progression 1	910 +/- 26	804 +/- 35	0.030627401
Cct4	chaperonin subunit 4 (delta)	308 +/- 13	232 +/- 19	0.006671311
Cd22	CD22 antigen	92 +/- 5	73 +/- 5	0.015447587
Cd52	CD52 antigen	191 +/- 16	128 +/- 16	0.017082381
Cd53	CD53 antigen	405 +/- 15	361 +/- 10	0.029602826
Cd86	CD86 antigen	48 +/- 3	28 +/- 5	0.002798759
Cd8b1	CD8 antigen, beta chain 1	1164 +/- 22	1081 +/- 28	0.037576249
Cdadcl1	cytidine and dCMP deaminase domain containing 1	232 +/- 8	196 +/- 7	0.003328978
Cdc23	CDC23 (cell division cycle 23, yeast, homolog)	593 +/- 17	525 +/- 15	0.009312089
Cdc25a	cell division cycle 25 homolog A (S. cerevisiae)	186 +/- 8	162 +/- 6	0.028142702

Cdc2l6	cell division cycle 2-like 6 (CDK8-like)	615 +/- 14	577 +/- 8	0.037284853
Cdc42se1	CDC42 small effector 1	1283 +/- 23	1210 +/- 20	0.030990252
Cdc5l	cell division cycle 5-like (S. pombe)	754 +/- 13	713 +/- 10	0.024147336
Cdh11	cadherin 11	2295 +/- 60	2097 +/- 63	0.041511708
Cdk2ap1	CDK2 (cyclin-dependent kinase 2)-associated protein 1	2379 +/- 69	2148 +/- 56	0.022730537
Cdk5r1	cyclin-dependent kinase 5, regulatory subunit (p35) 1	1108 +/- 36	1004 +/- 23	0.032393051
Cdkl2	cyclin-dependent kinase-like 2 (CDC2-related kinase)	131 +/- 4	118 +/- 4	0.049014736
Cdkn1a	cyclin-dependent kinase inhibitor 1A (P21)	294 +/- 12	220 +/- 12	0.000660457
Cdkn2aip	CDKN2A interacting protein	63 +/- 3	51 +/- 3	0.027286111
Cds2	CDP-diacylglycerol synthase (phosphatidate cytidyltransferase) 2	414 +/- 11	369 +/- 15	0.036394976
Cdyl2	chromodomain protein, Y chromosome-like 2	235 +/- 6	206 +/- 5	0.003567464
Cebpg	CCAAT/enhancer binding protein (C/EBP), gamma	206 +/- 7	176 +/- 8	0.012083417
Ceecam1	cerebral endothelial cell adhesion molecule 1	155 +/- 14	109 +/- 6	0.011263677
Cenpe	centromere protein E	60 +/- 5	49 +/- 1	0.044857116
Cenpf	centromere protein F	39 +/- 4	29 +/- 2	0.044500992
Cenpj	centromere protein J	76 +/- 3	65 +/- 3	0.015102804
Cenpp	centromere protein P	35 +/- 2	28 +/- 1	0.011249008
Cenpq	centromere protein Q	258 +/- 8	190 +/- 12	0.000537654
Centb2	centaurin, beta 2	2905 +/- 104	2522 +/- 141	0.047711477
Cep170	centrosomal protein 170	883 +/- 28	757 +/- 20	0.002832831
Cep27	centrosomal protein 27	162 +/- 8	138 +/- 7	0.034963542
Cep350	centrosomal protein 350	162 +/- 6	139 +/- 6	0.013904086
Cep70	centrosomal protein 70	59 +/- 5	44 +/- 2	0.022987868
Cetn2	centrin 2	1922 +/- 51	1767 +/- 20	0.018901927
Cfdp1	craniofacial development protein 1	1881 +/- 35	1720 +/- 56	0.035493404
Cggbp1	CGG triplet repeat binding protein 1	416 +/- 11	386 +/- 9	0.052038302
Chd9	chromodomain helicase DNA binding protein 9	106 +/- 7	87 +/- 4	0.031581968
Chordc1	cysteine and histidine-rich domain (CHORD)-containing, zinc-binding protein 1	1742 +/- 19	1452 +/- 43	0.00013222
Chpt1	choline phosphotransferase 1	358 +/- 22	297 +/- 19	0.05303173

Chuk	conserved helix-loop-helix ubiquitous kinase	378 +/- 19	316 +/- 18	0.032727822
Ciao1	cytosolic iron-sulfur protein assembly 1 homolog (<i>S. cerevisiae</i>)	1956 +/- 35	1810 +/- 40	0.015994571
Ciapin1	Cytokine induced apoptosis inhibitor 1	196 +/- 9	161 +/- 11	0.027695879
Cklf	chemokine-like factor	503 +/- 24	380 +/- 42	0.027030698
Cldnd1	claudin domain containing 1	2178 +/- 81	1766 +/- 34	0.001006035
Clec5a	C-type lectin domain family 5, member a	47 +/- 4	35 +/- 3	0.037674344
Clpb	ClpB caseinolytic peptidase B homolog (<i>E. coli</i>)	187 +/- 5	163 +/- 7	0.015363127
Cml2	camello-like 2	109 +/- 8	82 +/- 9	0.040972077
Cmtm7	CKLF-like MARVEL transmembrane domain containing 7	104 +/- 4	86 +/- 3	0.003709356
Cnot6	CCR4-NOT transcription complex, subunit 6	488 +/- 5	455 +/- 4	0.000165744
Cntfr	ciliary neurotrophic factor receptor	863 +/- 20	743 +/- 12	0.000273881
Cog1	component of oligomeric golgi complex 1	167 +/- 6	123 +/- 6	0.000178857
Commd2	COMM domain containing 2	186 +/- 6	162 +/- 7	0.02818713
Copb1	coatamer protein complex, subunit beta 1	1167 +/- 9	1118 +/- 8	0.001783459
Copg2as2	coatamer protein complex, subunit gamma 2, antisense 2	53 +/- 3	38 +/- 6	0.045916271
Coro2b	coronin, actin binding protein, 2B	3325 +/- 54	3043 +/- 82	0.013478073
Cova1	cytosolic ovarian carcinoma antigen 1	105 +/- 4	85 +/- 6	0.026624301
Cox15	COX15 homolog, cytochrome c oxidase assembly protein (yeast)	275 +/- 22	208 +/- 22	0.04998875
Cpsf6	cleavage and polyadenylation specific factor 6	188 +/- 6	143 +/- 10	0.002257561
Crb1	crumbs homolog 1 (<i>Drosophila</i>)	90 +/- 5	73 +/- 6	0.053571231
Creb1	cAMP responsive element binding protein 1	1163 +/- 35	1010 +/- 36	0.008720071
Creb3l2	cAMP responsive element binding protein 3-like 2	263 +/- 10	224 +/- 4	0.003783554
Creld2	cysteine-rich with EGF-like domains 2	397 +/- 19	331 +/- 5	0.011083736
Crem	cAMP responsive element modulator	278 +/- 4	258 +/- 6	0.015312489
Crhr1	corticotropin releasing hormone receptor 1	259 +/- 13	214 +/- 13	0.023892596
Crip3	cysteine-rich protein 3	79 +/- 6	54 +/- 4	0.007054409
Crk	v-crk sarcoma virus CT10 oncogene homolog (avian)	3438 +/- 29	3265 +/- 58	0.02313032
Crkl	v-crk sarcoma virus CT10 oncogene homolog (avian)-like	1320 +/- 45	1183 +/- 25	0.021447537
Crnk1l1	Crn, crooked neck-like 1 (<i>Drosophila</i>)	373 +/- 9	345 +/- 10	0.054061876

Crsp2	cofactor required for Sp1 transcriptional activation, subunit 2	183 +/- 10	150 +/- 11	0.044325546
Cryab	crystallin, alpha B	2603 +/- 102	2298 +/- 94	0.045730367
Cryz1	Crystallin, zeta (quinone reductase)-like 1	627 +/- 60	406 +/- 58	0.018854696
Csf1r	colony stimulating factor 1 receptor	1562 +/- 38	1378 +/- 59	0.022856504
Csf3r	colony stimulating factor 3 receptor (granulocyte)	151 +/- 5	107 +/- 7	0.000148969
Csnk1a1	casein kinase 1, alpha 1	493 +/- 8	438 +/- 20	0.030166403
Csnk1g1	casein kinase 1, gamma 1	109 +/- 6	86 +/- 8	0.032403809
Csnk1g3	casein kinase 1, gamma 3	2200 +/- 59	1949 +/- 30	0.00323278
Ctnnb1	catenin (cadherin associated protein), beta 1	4452 +/- 74	4203 +/- 58	0.019991814
Ctsz	cathepsin Z	916 +/- 42	810 +/- 24	0.051443511
Cttnbp2nl	CTTNBP2 N-terminal like	1155 +/- 25	1065 +/- 12	0.008621398
Cuedc1	CUE domain containing 1	274 +/- 8	244 +/- 10	0.036455878
Cutl1	cut-like 1 (Drosophila)	330 +/- 9	285 +/- 10	0.004512081
Cx3cl1	chemokine (C-X3-C motif) ligand 1	2360 +/- 82	2089 +/- 34	0.01299792
Cxcl13	chemokine (C-X-C motif) ligand 13	214 +/- 63	64 +/- 13	0.051117196
Cxxc1	CXXC finger 1 (PHD domain)	846 +/- 11	792 +/- 13	0.007799533
Cyb5r4	cytochrome b5 reductase 4	1104 +/- 16	1039 +/- 18	0.017304589
Cyhr1	cysteine and histidine rich 1	1548 +/- 31	1330 +/- 43	0.001520809
Cyp51	cytochrome P450, family 51	805 +/- 13	695 +/- 27	0.004585436
D10Ert438e	DNA segment, Chr 10, ERATO Doi 438, expressed	715 +/- 16	638 +/- 19	0.008269517
D12Ert4125e	DNA segment, Chr 12, ERATO Doi 125, expressed	52 +/- 5	36 +/- 2	0.012139359
D14Ert4581e	DNA segment, Chr 14, ERATO Doi 581, expressed	197 +/- 6	170 +/- 5	0.003553453
D19Bwg1357	DNA segment, Chr 19, Brigham & Women's Genetics 1357 expressed	329 +/- 9	291 +/- 12	0.024570085
D1Ert4448e	DNA segment, Chr 1, ERATO Doi 448, expressed	412 +/- 9	368 +/- 8	0.002815376
D2Bwg1335e	DNA segment, Chr 2, Brigham & Women's Genetics 1335 expressed	716 +/- 35	600 +/- 27	0.021220049
D2Ert435e	DNA segment, Chr 2, ERATO Doi 435, expressed	459 +/- 12	383 +/- 11	0.000344105
D2Ert463e	DNA segment, Chr 2, ERATO Doi 63, expressed	75 +/- 12	45 +/- 6	0.047864215
D2hgdh	D-2-hydroxyglutarate dehydrogenase	641 +/- 34	513 +/- 39	0.026349641
D4Ert422e	DNA segment, Chr 4, ERATO Doi 22, expressed	482 +/- 15	422 +/- 13	0.009419931

D5Buc30e	DNA segment, Chr 5, Bucan 30 expressed	1415 +/- 30	1195 +/- 78	0.027159673
D5Wsu178e	DNA segment, Chr 5, Wayne State University 178, expressed	162 +/- 8	143 +/- 5	0.051977964
D6Wsu116e	DNA segment, Chr 6, Wayne State University 116, expressed	66 +/- 5	45 +/- 4	0.009277174
D7Wsu130e	DNA segment, Chr 7, Wayne State University 130, expressed	42 +/- 3	30 +/- 3	0.014074199
Dab2	disabled homolog 2 (Drosophila)	98 +/- 9	71 +/- 8	0.041523052
Dag1	dystroglycan 1	1654 +/- 22	1584 +/- 24	0.049296151
Dapk2	death-associated kinase 2	67 +/- 2	52 +/- 6	0.032997365
Dazl	deleted in azoospermia-like	143 +/- 3	122 +/- 8	0.041855964
Dcakd	dephospho-CoA kinase domain containing	539 +/- 9	506 +/- 10	0.028283041
Dcamk1l	doublecortin and calcium/calmodulin-dependent protein kinase-like 1	461 +/- 11	360 +/- 13	3.31939E-05
Dcbld2	discoidin, CUB and LCCL domain containing 2	190 +/- 7	171 +/- 6	0.051868175
Ddah1	dimethylarginine dimethylaminohydrolase 1	582 +/- 17	491 +/- 12	0.00080563
Ddef1	development and differentiation enhancing	256 +/- 9	167 +/- 8	3.16144E-06
Ddef2	Development and differentiation enhancing factor 2	101 +/- 6	81 +/- 7	0.050205638
Ddhd1	DDHD domain containing 1	576 +/- 14	467 +/- 18	0.000316212
Ddo	D-aspartate oxidase	146 +/- 4	121 +/- 9	0.034256067
Decr1	2,4-dienoyl CoA reductase 1, mitochondrial	160 +/- 4	142 +/- 2	0.003675927
Depdc5	DEP domain containing 5	151 +/- 5	128 +/- 6	0.01291505
Depdc6	DEP domain containing 6	112 +/- 7	85 +/- 7	0.025485948
Dera	2-deoxyribose-5-phosphate aldolase homolog (C. elegans)	167 +/- 7	150 +/- 4	0.054043514
Der1l	Der1-like domain family, member 1	865 +/- 25	760 +/- 19	0.005775009
Der1l2	Der1-like domain family, member 2	652 +/- 24	554 +/- 18	0.006254267
Der1l3	Der1-like domain family, member 3	120 +/- 9	90 +/- 6	0.016826746
Dgcr2	DiGeorge syndrome critical region gene 2	688 +/- 23	628 +/- 7	0.037971616
Dhcr24	24-dehydrocholesterol reductase	1347 +/- 48	1200 +/- 50	0.052527563
Dhcr7	7-dehydrocholesterol reductase	649 +/- 14	594 +/- 17	0.024772528
Dhrs3	dehydrogenase/reductase (SDR family) member 3	248 +/- 13	211 +/- 6	0.0274675
Dhx33	DEAH (Asp-Glu-Ala-His) box polypeptide 33	420 +/- 16	363 +/- 19	0.040530335
Dhx36	DEAH (Asp-Glu-Ala-His) box polypeptide 36	814 +/- 20	726 +/- 28	0.025843816

Dio2	deiodinase, iodothyronine, type II	272 +/- 8	220 +/- 8	0.000487492
Dip2a	DIP2 disco-interacting protein 2 homolog A (Drosophila)	2023 +/- 36	1918 +/- 28	0.036177881
Dkk3	dickkopf homolog 3 (Xenopus laevis)	3345 +/- 73	2905 +/- 50	0.000323725
Dleu2	deleted in lymphocytic leukemia, 2	202 +/- 6	162 +/- 11	0.00806884
Dlst	dihydrolipoamide S-succinyltransferase (E2 component of 2-oxo-glutarate com	329 +/- 13	296 +/- 7	0.044301933
Dlx6os1	Dlx6 opposite strand transcript 1	332 +/- 13	295 +/- 12	0.052276898
Dmd	Dystrophin, muscular dystrophy	77 +/- 4	46 +/- 5	0.000446978
Dmp1	dentin matrix protein 1	228 +/- 10	187 +/- 7	0.007181427
Dnaja3	DnaJ (Hsp40) homolog, subfamily A, member 3	695 +/- 14	630 +/- 16	0.008508165
Dnaja4	DnaJ (Hsp40) homolog, subfamily A, member 4	1323 +/- 24	1193 +/- 31	0.005314085
Dnajb1	DnaJ (Hsp40) homolog, subfamily B, member 1	1306 +/- 26	1222 +/- 24	0.032772148
Dnajb5	DnaJ (Hsp40) homolog, subfamily B, member 5	1888 +/- 48	1585 +/- 53	0.000866032
Dnajc1	DnaJ (Hsp40) homolog, subfamily C, member 1	352 +/- 19	235 +/- 22	0.001328143
Dnajc15	DnaJ (Hsp40) homolog, subfamily C, member 15	1746 +/- 25	1625 +/- 22	0.003302539
Dnajc3	DnaJ (Hsp40) homolog, subfamily C, member 3	1384 +/- 35	1223 +/- 37	0.006796563
Dnajc5	DnaJ (Hsp40) homolog, subfamily C, member 5	1397 +/- 38	1296 +/- 27	0.048813978
Dnm1l	dynamain 1-like	686 +/- 18	632 +/- 16	0.043093819
Dock1	dedicator of cyto-kinesis 1	193 +/- 9	168 +/- 6	0.039825269
Dock11	dedicator of cytokinesis 11	87 +/- 5	72 +/- 4	0.04817544
Dock9	Dedicator of cytokinesis 9	171 +/- 4	144 +/- 5	0.001408088
Dpagt1	dolichyl-phosphate (UDP-N-acetylglucosamine) acetylglucosaminophosphotran	517 +/- 9	473 +/- 13	0.016633235
Dph5	DPH5 homolog (S. cerevisiae)	175 +/- 5	162 +/- 3	0.053752361
Dpp8	dipeptidylpeptidase 8	1109 +/- 37	978 +/- 16	0.00882626
Dpy19I1	dpy-19-like 1 (C. elegans)	715 +/- 20	608 +/- 28	0.008323711
Dpy19I3	dpy-19-like 3 (C. elegans)	423 +/- 10	354 +/- 16	0.003617942
Drp2	dystrophin related protein 2	803 +/- 18	747 +/- 4	0.016212929
Dtl	denticleless homolog (Drosophila)	27 +/- 2	15 +/- 2	0.001260526
Dtna	dystrobrevin alpha	939 +/- 39	781 +/- 16	0.004563975
Dusp11	dual specificity phosphatase 11 (RNA/RNP complex 1-interacting)	235 +/- 9	190 +/- 3	0.000748779

Dusp19	dual specificity phosphatase 19	308 +/- 14	250 +/- 17	0.022711319
Dusp6	dual specificity phosphatase 6	1823 +/- 42	1565 +/- 75	0.011686763
Dync2h1	dynein cytoplasmic 2 heavy chain 1	619 +/- 19	567 +/- 8	0.029012658
Dzip1	DAZ interacting protein 1	2003 +/- 82	1754 +/- 57	0.028115838
Dzip1l	DAZ interacting protein 1-like	367 +/- 12	296 +/- 25	0.028278802
Ebp	phenylalkylamine Ca ²⁺ antagonist (emopamil) binding protein	715 +/- 15	658 +/- 7	0.006007271
Ecd	ecdysoneless homolog (Drosophila)	390 +/- 8	320 +/- 12	0.000599535
Echdc3	enoyl Coenzyme A hydratase domain containing 3	99 +/- 8	76 +/- 6	0.031087275
Edem3	ER degradation enhancer, mannosidase alpha-like 3	1419 +/- 25	1332 +/- 19	0.015331375
Edg1	endothelial differentiation sphingolipid G-protein-coupled receptor 1	2021 +/- 45	1830 +/- 26	0.003505922
Ednrb	endothelin receptor type B	271 +/- 5	246 +/- 6	0.006780422
EG240038	predicted gene, EG240038	101 +/- 7	73 +/- 6	0.010147666
EG245174	predicted gene, EG245174	114 +/- 6	95 +/- 6	0.031889177
EG331480	predicted gene, EG331480	96 +/- 4	80 +/- 3	0.010528982
EG622320	predicted gene, EG622320	394 +/- 8	333 +/- 7	3.95637E-05
Egfl9	EGF-like-domain, multiple 9	477 +/- 12	432 +/- 10	0.015351732
Egr1	early growth response 1	6962 +/- 360	5763 +/- 392	0.040743995
Egr3	early growth response 3	229 +/- 9	193 +/- 8	0.009755517
Ehd4	EH-domain containing 4	208 +/- 11	174 +/- 9	0.030601564
Eif2ak1	eukaryotic translation initiation factor 2 alpha kinase 1	803 +/- 10	725 +/- 16	0.001605687
Eif2c3	eukaryotic translation initiation factor 2C, 3	322 +/- 6	289 +/- 7	0.003279288
Eif2s1	eukaryotic translation initiation factor 2, subunit 1 alpha	1479 +/- 22	1345 +/- 33	0.005798072
Eif3s1	eukaryotic translation initiation factor 3, subunit 1 alpha	561 +/- 15	514 +/- 15	0.04603259
Eif4ebp2	eukaryotic translation initiation factor 4E binding protein 2	446 +/- 10	404 +/- 17	0.052533626
Eif4g3	eukaryotic translation initiation factor 4 gamma, 3	163 +/- 6	136 +/- 8	0.028073758
Eif5a2	eukaryotic translation initiation factor 5A2	413 +/- 11	382 +/- 7	0.037047892
Elav1	ELAV (embryonic lethal, abnormal vision, Drosophila)-like 1 (Hu antigen R)	543 +/- 17	501 +/- 10	0.054429697
Elav14	ELAV (embryonic lethal, abnormal vision, Drosophila)-like 4 (Hu antigen D)	1438 +/- 57	1269 +/- 40	0.030773142
Ell2	elongation factor RNA polymerase II 2	970 +/- 44	863 +/- 16	0.046995639

Elmo2	engulfment and cell motility 2, ced-12 homolog (C. elegans)	1581 +/- 52	1379 +/- 20	0.00550307
Emp2	epithelial membrane protein 2	129 +/- 5	101 +/- 5	0.001359131
Emp3	epithelial membrane protein 3	96 +/- 11	62 +/- 9	0.032526171
Endog1	endonuclease G-like 1	715 +/- 10	659 +/- 21	0.039159355
Ensa	endosulfine alpha	3456 +/- 72	2981 +/- 34	0.0001467
Entpd5	ectonucleoside triphosphate diphosphohydrolase 5	251 +/- 9	222 +/- 9	0.034884578
Epb4.112	erythrocyte protein band 4.1-like 2	524 +/- 15	478 +/- 8	0.02387193
Ephx2	epoxide hydrolase 2, cytoplasmic	401 +/- 7	352 +/- 9	0.00103371
Eps15	epidermal growth factor receptor pathway substrate 15	1442 +/- 31	1287 +/- 36	0.005914954
Eps8	epidermal growth factor receptor pathway substrate 8	435 +/- 6	397 +/- 6	0.001021891
Erc1	ELKS/RAB6-interacting/CAST family member 1	152 +/- 8	122 +/- 6	0.010446364
Ercc2	excision repair cross-complementing rodent repair deficiency, complementation	271 +/- 19	220 +/- 10	0.040872042
Ergic2	ERGIC and golgi 2	363 +/- 4	333 +/- 6	0.002435445
Ero1b	ERO1-like beta (S. cerevisiae)	192 +/- 3	169 +/- 5	0.001975564
Errfi1	ERBB receptor feedback inhibitor 1	734 +/- 27	643 +/- 19	0.017381718
Esd	esterase D/formylglutathione hydrolase	45 +/- 5	30 +/- 3	0.02323586
Ets1	E26 avian leukemia oncogene 1, 5' domain	89 +/- 6	71 +/- 6	0.047663824
Etv5	ets variant gene 5	1406 +/- 66	1173 +/- 26	0.009275761
Evi5	Ecotropic viral integration site 5	180 +/- 15	145 +/- 5	0.053060335
Evl	Ena-vasodilator stimulated phosphoprotein	111 +/- 4	96 +/- 3	0.007948868
Exod1	exonuclease domain containing 1	206 +/- 4	189 +/- 6	0.038962358
Eya3	eyes absent 3 homolog (Drosophila)	252 +/- 12	196 +/- 9	0.003538162
Ezh1	enhancer of zeste homolog 1 (Drosophila)	1392 +/- 14	1331 +/- 9	0.003583033
Fam18b	family with sequence similarity 18, member B	1714 +/- 48	1521 +/- 51	0.016100775
Fastkd2	FAST kinase domains 2	389 +/- 6	364 +/- 9	0.044930655
Fbx19	F-box and leucine-rich repeat protein 19	508 +/- 11	427 +/- 21	0.006668902
Fbx120	F-box and leucine-rich repeat protein 20	395 +/- 10	358 +/- 11	0.033286801
Fbx15	F-box and leucine-rich repeat protein 5	322 +/- 14	280 +/- 12	0.040418399
Fbxo28	F-box protein 28	1039 +/- 20	925 +/- 19	0.000895054

Fbxo3	F-box protein 3	1431 +/- 29	1348 +/- 26	0.051955845
Fbxo30	F-box protein 30	131 +/- 6	100 +/- 4	0.001566851
Fbxo44	F-box protein 44	224 +/- 6	196 +/- 9	0.022867424
Fbxo8	F-box protein 8	783 +/- 31	701 +/- 18	0.043731289
Fbxw8	F-box and WD-40 domain protein 8	977 +/- 12	874 +/- 27	0.006608268
Fcer1g	Fc receptor, IgE, high affinity I, gamma polypeptide	442 +/- 36	342 +/- 7	0.02758086
Fcmd	Fukuyama type congenital muscular dystrophy homolog (human)	1494 +/- 11	1384 +/- 22	0.000928234
Fert2	fer (fms/fps related) protein kinase, testis specific 2	230 +/- 10	167 +/- 8	0.00016764
Fgfr1op2	FGFR1 oncogene partner 2	1445 +/- 21	1374 +/- 23	0.039654774
Fgfr2	fibroblast growth factor receptor 2	850 +/- 24	779 +/- 13	0.027268768
Fgfr1l	fibroblast growth factor receptor-like 1	1092 +/- 31	986 +/- 26	0.0204524
Fh1	fumarate hydratase 1	2619 +/- 21	2513 +/- 34	0.021694929
Fli1	Friend leukemia integration 1	127 +/- 5	109 +/- 7	0.051216186
Fmn1	formin-like 1	408 +/- 19	356 +/- 7	0.031354325
Fmo5	flavin containing monooxygenase 5	42 +/- 2	32 +/- 2	0.001665843
Fmr1	fragile X mental retardation syndrome 1 homolog	373 +/- 17	295 +/- 27	0.033689055
Fosb	FBJ osteosarcoma oncogene B	151 +/- 7	127 +/- 7	0.033444006
Foxf2	forkhead box F2	53 +/- 6	38 +/- 2	0.03290861
Foxk2	forkhead box K2	1004 +/- 15	885 +/- 13	4.94689E-05
Frap1	FK506 binding protein 12-rapamycin associated protein 1	113 +/- 4	97 +/- 4	0.017712835
Freq	frequenin homolog (Drosophila)	296 +/- 7	269 +/- 8	0.028685155
Frmd4a	FERM domain containing 4A	899 +/- 25	796 +/- 17	0.005207589
Frmd5	FERM domain containing 5	412 +/- 7	339 +/- 10	3.70728E-05
Fsip1	fibrous sheath-interacting protein 1	62 +/- 5	47 +/- 3	0.020679009
Fst	Follistatin	101 +/- 3	66 +/- 6	0.000677122
Ftl2	ferritin light chain 2	366 +/- 12	299 +/- 19	0.01303177
Ftsj2	FtsJ homolog 2 (E. coli)	240 +/- 8	212 +/- 7	0.026438439
Fubp1	far upstream element (FUSE) binding protein 1	851 +/- 26	720 +/- 25	0.002719087
Fuca2	fucosidase, alpha-L- 2, plasma	708 +/- 17	656 +/- 5	0.021018263

Fusip1	FUS interacting protein (serine-arginine rich) 1	572 +/- 14	483 +/- 25	0.009473026
Fut9	fucosyltransferase 9	259 +/- 8	230 +/- 8	0.02273752
Gabarapl1	Gamma-aminobutyric acid (GABA(A)) receptor-associated protein-like 1	48 +/- 3	38 +/- 2	0.025789819
Gabpa	GA repeat binding protein, alpha	746 +/- 18	637 +/- 23	0.002672264
Gabrg2	gamma-aminobutyric acid (GABA-A) receptor, subunit gamma 2	2615 +/- 49	2399 +/- 67	0.021810515
Gal	galanin	47 +/- 5	31 +/- 2	0.022001097
Galm	galactose mutarotase	264 +/- 6	222 +/- 10	0.004917024
Galnt7	UDP-N-acetyl-alpha-D-galactosamine: polypeptide N-acetylgalactosaminyltrans	498 +/- 10	454 +/- 9	0.006594114
Garn1	GTPase activating RANGAP domain-like 1	250 +/- 8	199 +/- 5	0.000291042
Gas2	growth arrest specific 2	81 +/- 3	67 +/- 6	0.04968138
Gas7	growth arrest specific 7	303 +/- 8	279 +/- 5	0.023331293
Gbf1	golgi-specific brefeldin A-resistance factor 1	1197 +/- 21	1125 +/- 22	0.032676366
Gbp6	guanylate binding protein 6	98 +/- 9	74 +/- 6	0.039838766
Gcdh	glutaryl-Coenzyme A dehydrogenase	591 +/- 37	494 +/- 17	0.037788174
Gch1	GTP cyclohydrolase 1	39 +/- 3	29 +/- 2	0.01110028
Gcnt2	glucosaminyl (N-acetyl) transferase 2, l-branching enzyme	456 +/- 15	402 +/- 10	0.012610364
Gdf10	growth differentiation factor 10	469 +/- 9	396 +/- 19	0.005435628
Gfpt1	glutamine fructose-6-phosphate transaminase 1	159 +/- 6	116 +/- 9	0.002207719
Ggcx	gamma-glutamyl carboxylase	60 +/- 4	48 +/- 4	0.042254939
Gja1	gap junction membrane channel protein alpha 1	3305 +/- 379	1966 +/- 231	0.011268464
Glis2	GLIS family zinc finger 2	268 +/- 7	242 +/- 8	0.023949532
Glr2	glutaredoxin 2 (thioltransferase)	736 +/- 43	623 +/- 18	0.038616119
Gm50	gene model 50, (NCBI)	916 +/- 10	860 +/- 14	0.007488385
Gm527	gene model 527, (NCBI)	243 +/- 9	205 +/- 6	0.00526229
Gmcl1	germ cell-less homolog 1 (Drosophila)	948 +/- 15	868 +/- 20	0.006037172
Gmfg	glia maturation factor, gamma	68 +/- 5	53 +/- 2	0.032868249
Gmps	guanine monphosphate synthetase	1389 +/- 10	1293 +/- 33	0.022448103
Gna12	guanine nucleotide binding protein, alpha 12	58 +/- 6	39 +/- 4	0.02735126
Gnal	guanine nucleotide binding protein, alpha stimulating, olfactory type	74 +/- 3	57 +/- 5	0.016402907

Gne	glucosamine	402 +/- 7	357 +/- 14	0.015587299
Gng12	guanine nucleotide binding protein (G protein), gamma 12	1660 +/- 18	1570 +/- 34	0.040520526
Gnpda1	glucosamine-6-phosphate deaminase 1	952 +/- 23	874 +/- 13	0.014066032
Gnpda2	glucosamine-6-phosphate deaminase 2	1037 +/- 19	939 +/- 24	0.006460784
Gnptab	N-acetylglucosamine-1-phosphate transferase, alpha and beta subunits	420 +/- 6	387 +/- 5	0.001317814
Golga3	golgi autoantigen, golgin subfamily a, 3	461 +/- 14	421 +/- 8	0.028635401
Golph3	golgi phosphoprotein 3	909 +/- 13	809 +/- 14	0.000145877
Golph4	golgi phosphoprotein 4	583 +/- 14	528 +/- 10	0.007831497
Gorasp1	golgi reassembly stacking protein 1	225 +/- 5	204 +/- 8	0.041404851
Gpatc1	G patch domain containing 1	154 +/- 6	136 +/- 4	0.034696702
Gpatc4	G patch domain containing 4	387 +/- 5	345 +/- 16	0.038922298
Gpd1l	glycerol-3-phosphate dehydrogenase 1-like	811 +/- 12	759 +/- 19	0.040994958
Gpiap1	GPI-anchored membrane protein 1	3187 +/- 53	2963 +/- 47	0.008129175
Gpnmb	glycoprotein (transmembrane) nmb	144 +/- 10	112 +/- 11	0.045861616
Gpr107	G protein-coupled receptor 107	504 +/- 10	462 +/- 10	0.008465447
Gpr17	G protein-coupled receptor 17	417 +/- 10	363 +/- 23	0.05485017
Gpr177	G protein-coupled receptor 177	365 +/- 11	308 +/- 6	0.001103587
Gpr27	G protein-coupled receptor 27	486 +/- 18	443 +/- 9	0.054348405
Gpr68	G protein-coupled receptor 68	578 +/- 33	493 +/- 12	0.039356203
Gpsm2	G-protein signalling modulator 2 (AGS3-like, C. elegans)	316 +/- 4	265 +/- 20	0.036112236
Gpsm3	G-protein signalling modulator 3 (AGS3-like, C. elegans)	107 +/- 3	93 +/- 3	0.004582341
Gpt2	glutamic pyruvate transaminase (alanine aminotransferase) 2	571 +/- 20	490 +/- 13	0.005251652
Grb2	growth factor receptor bound protein 2	1500 +/- 29	1386 +/- 23	0.009254725
Grik2	glutamate receptor, ionotropic, kainate 2 (beta 2)	363 +/- 8	328 +/- 12	0.029483763
Grm4	glutamate receptor, metabotropic 4	286 +/- 14	252 +/- 6	0.050928421
Gspt1	G1 to S phase transition 1	345 +/- 9	307 +/- 13	0.029435657
Gss	glutathione synthetase	355 +/- 15	305 +/- 6	0.015108202
Gsta1	glutathione S-transferase, alpha 1 (Ya)	65 +/- 6	45 +/- 4	0.014047938
Gtf2h3	general transcription factor IIH, polypeptide 3	424 +/- 8	380 +/- 5	0.000836994

Gtf2h4	general transcription factor II H, polypeptide 4	246 +/- 10	221 +/- 7	0.053387008
Gtf3c1	general transcription factor III C 1	123 +/- 8	102 +/- 4	0.035248702
Gulp1	GULP, engulfment adaptor PTB domain containing 1	135 +/- 7	111 +/- 7	0.030438514
Gzf1	GDNF-inducible zinc finger protein 1	771 +/- 16	706 +/- 10	0.005475739
H13	Histocompatibility 13	85 +/- 4	73 +/- 4	0.041445557
Haghl	hydroxyacylglutathione hydrolase-like	261 +/- 12	216 +/- 17	0.043753718
Hapln2	hyaluronan and proteoglycan link protein 2	412 +/- 5	366 +/- 18	0.036123148
Hcfc2	host cell factor C2	614 +/- 10	544 +/- 23	0.019855019
Hdhd2	Haloacid dehalogenase-like hydrolase domain containing 2	217 +/- 10	185 +/- 7	0.02392754
Hdlbp	high density lipoprotein (HDL) binding protein	291 +/- 5	251 +/- 6	0.000216476
Heatr1	HEAT repeat containing 1	545 +/- 13	495 +/- 16	0.02999345
Hells	helicase, lymphoid specific	71 +/- 3	57 +/- 5	0.033680713
Hemk1	HemK methyltransferase family member 1	290 +/- 18	231 +/- 6	0.013118041
Herc5	hect domain and RLD 5	62 +/- 6	45 +/- 5	0.054629102
Herpud1	homocysteine-inducible, endoplasmic reticulum stress-inducible, ubiquitin-like c	1236 +/- 64	1051 +/- 54	0.045209373
Hexa	hexosaminidase A	2081 +/- 67	1896 +/- 53	0.048062749
Hfe	hemochromatosis	190 +/- 14	150 +/- 12	0.049574036
Hhip	Hedgehog-interacting protein	75 +/- 6	51 +/- 4	0.005232378
Hiatl1	hippocampus abundant transcript-like 1	1375 +/- 17	1298 +/- 28	0.043277611
Hibadh	3-hydroxyisobutyrate dehydrogenase	1521 +/- 23	1361 +/- 36	0.002674754
Higd1a	HIG1 domain family, member 1A	460 +/- 20	404 +/- 13	0.038340756
Hip1	huntingtin interacting protein 1	350 +/- 8	298 +/- 11	0.002595591
Hip2	Huntingtin interacting protein 2	62 +/- 4	45 +/- 2	0.007587226
Hist1h1c	histone cluster 1, H1c	602 +/- 60	452 +/- 32	0.049937681
Hist2h2be	histone cluster 2, H2be	205 +/- 8	179 +/- 7	0.039426366
Hist2h3c1	histone cluster 2, H3c1	194 +/- 11	160 +/- 6	0.018519106
Hist3h2a	histone cluster 3, H2a	586 +/- 15	501 +/- 16	0.001709586
Hlhf	helicase-like transcription factor	766 +/- 18	689 +/- 29	0.041889327
Hmgcs1	3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1	2183 +/- 54	1848 +/- 60	0.001041745

Hnrpa1	heterogeneous nuclear ribonucleoprotein A1	1728 +/- 21	1611 +/- 23	0.002877913
Hnrpab	heterogeneous nuclear ribonucleoprotein A/B	695 +/- 11	633 +/- 20	0.018626323
Hnrpc	heterogeneous nuclear ribonucleoprotein C	5485 +/- 166	5056 +/- 87	0.044055819
Hnrph1	heterogeneous nuclear ribonucleoprotein H1	6481 +/- 130	6026 +/- 117	0.021276936
Homer1	homer homolog 1 (Drosophila)	76 +/- 4	45 +/- 4	0.000207765
Hook3	hook homolog 3 (Drosophila)	682 +/- 36	570 +/- 21	0.022185806
Hpgd	hydroxyprostaglandin dehydrogenase 15 (NAD)	155 +/- 9	124 +/- 6	0.017370353
Hrb	HIV-1 Rev binding protein	470 +/- 19	395 +/- 17	0.009847252
Hrh1	histamine receptor H 1	96 +/- 7	78 +/- 4	0.045385987
Hsd17b12	hydroxysteroid (17-beta) dehydrogenase 12	1836 +/- 43	1643 +/- 31	0.003264798
Hsp110	heat shock protein 110	3557 +/- 79	3215 +/- 74	0.00742602
Hsp90b1	heat shock protein 90kDa beta (Grp94), member 1	2526 +/- 94	2153 +/- 94	0.015000455
Hspa12a	heat shock protein 12A	2080 +/- 45	1925 +/- 55	0.046436032
Hspa1a	heat shock protein 1A	711 +/- 32	603 +/- 24	0.018503046
Hspa4	heat shock protein 4	1211 +/- 43	963 +/- 46	0.001682418
Hspa4l	heat shock protein 4 like	1997 +/- 20	1834 +/- 36	0.002207118
Hspa5	heat shock 70kD protein 5 (glucose-regulated protein)	5382 +/- 117	4735 +/- 102	0.000993345
Hspb8	heat shock protein 8	108 +/- 5	90 +/- 5	0.030030608
Hus1	Hus1 homolog (S. pombe)	403 +/- 15	336 +/- 17	0.011473296
Hyal1	hyaluronoglucosaminidase 1	163 +/- 12	127 +/- 12	0.04796968
Hyou1	hypoxia up-regulated 1	468 +/- 18	414 +/- 17	0.044156719
Ibtk	inhibitor of Bruton agammaglobulinemia tyrosine kinase	357 +/- 10	324 +/- 12	0.054337561
Id2	inhibitor of DNA binding 2	78 +/- 6	64 +/- 2	0.054787338
Ide	insulin degrading enzyme	439 +/- 10	405 +/- 13	0.052278518
Idi1	isopentenyl-diphosphate delta isomerase	464 +/- 14	372 +/- 20	0.003130477
Ids	iduronate 2-sulfatase	545 +/- 7	495 +/- 16	0.019832873
Ifi203	interferon activated gene 203	22 +/- 2	16 +/- 2	0.049506808
Ifrg15	interferon alpha responsive gene	1584 +/- 36	1448 +/- 26	0.009114009
Ift57	intraflagellar transport 57 homolog (Chlamydomonas)	63 +/- 5	50 +/- 4	0.047983277

Ift80	intraflagellar transport 80 homolog (Chlamydomonas)	507 +/- 16	438 +/- 26	0.042744586
Igf2	insulin-like growth factor 2	60 +/- 9	34 +/- 7	0.053560749
Igfbp6	insulin-like growth factor binding protein 6	740 +/- 46	612 +/- 29	0.03707374
Igk-C	immunoglobulin kappa chain, constant region	149 +/- 8	112 +/- 14	0.042414813
Igsf1	immunoglobulin superfamily, member 1	182 +/- 9	157 +/- 3	0.02410956
Igsf4b	immunoglobulin superfamily, member 4B	4175 +/- 74	3703 +/- 191	0.046780236
Igsf4d	immunoglobulin superfamily, member 4	1149 +/- 27	999 +/- 54	0.033067664
Ihpk1	inositol hexaphosphate kinase 1	513 +/- 7	464 +/- 9	0.001182054
Ikbkg	inhibitor of kappaB kinase gamma	182 +/- 7	155 +/- 4	0.00906538
Il6st	interleukin 6 signal transducer	379 +/- 12	336 +/- 11	0.019532554
Ilkap	integrin-linked kinase-associated serine/threonine phosphatase 2C	878 +/- 23	803 +/- 11	0.014222861
Ing3	inhibitor of growth family, member 3	630 +/- 14	551 +/- 30	0.037369677
Ing5	inhibitor of growth family, member 5	629 +/- 19	564 +/- 18	0.028209151
Inpp5a	inositol polyphosphate-5-phosphatase A	845 +/- 17	776 +/- 24	0.033948601
Insig2	insulin induced gene 2	1189 +/- 50	1063 +/- 30	0.052702835
Insm1	insulinoma-associated 1	166 +/- 8	134 +/- 8	0.015581232
Ints12	integrator complex subunit 12	417 +/- 10	369 +/- 8	0.002406606
Ints7	integrator complex subunit 7	289 +/- 17	236 +/- 12	0.024318549
Ints8	integrator complex subunit 8	620 +/- 15	539 +/- 11	0.000880364
Ipmk	inositol polyphosphate multikinase	503 +/- 11	454 +/- 15	0.022707139
Ipo7	importin 7	4016 +/- 57	3812 +/- 46	0.016058539
Ippk	inositol 1,3,4,5,6-pentakisphosphate 2-kinase	417 +/- 12	374 +/- 11	0.020271102
Irak2	interleukin-1 receptor-associated kinase 2	429 +/- 14	367 +/- 6	0.002409676
Irf2bp2	interferon regulatory factor 2 binding protein 2	245 +/- 8	217 +/- 7	0.01532714
Irf7	interferon regulatory factor 7	84 +/- 4	62 +/- 5	0.00760818
Isg20l2	interferon stimulated exonuclease gene 20-like 2	463 +/- 18	401 +/- 17	0.025039105
Isgf3g	interferon dependent positive acting transcription factor 3 gamma	194 +/- 10	165 +/- 6	0.034231361
Itgai	integrin alpha L	53 +/- 6	36 +/- 3	0.032038869
Itgam	integrin alpha M	89 +/- 5	75 +/- 4	0.04856098

Itgav	integrin alpha V	76 +/- 4	58 +/- 3	0.004015904
Itgb5	integrin beta 5	909 +/- 39	730 +/- 32	0.003444455
Itsn1	intersectin 1 (SH3 domain protein 1A)	681 +/- 19	595 +/- 23	0.01294367
Jak2	Janus kinase 2	891 +/- 14	836 +/- 14	0.016157514
Jarid1c	jumonji, AT rich interactive domain 1C (Rbp2 like)	187 +/- 8	163 +/- 7	0.030831617
Jmjd4	jumonji domain containing 4	111 +/- 4	88 +/- 3	0.000922603
Josd2	Josephin domain containing 2	596 +/- 15	550 +/- 10	0.02806478
Jph2	junctionophilin 2	104 +/- 9	74 +/- 7	0.020579783
Jup	junction plakoglobin	414 +/- 9	385 +/- 10	0.04508969
Kbtbd2	kelch repeat and BTB (POZ) domain containing 2	1991 +/- 31	1853 +/- 28	0.005395773
Kcna6	potassium voltage-gated channel, shaker-related, subfamily, member 6	335 +/- 9	308 +/- 5	0.023659897
Kcnj10	potassium inwardly-rectifying channel, subfamily J, member 10	1242 +/- 57	1077 +/- 32	0.028257244
Kcnj12	potassium inwardly-rectifying channel, subfamily J, member 12	104 +/- 6	80 +/- 4	0.006833506
Kcnq2	Potassium voltage-gated channel, subfamily Q, member 2	416 +/- 17	360 +/- 12	0.020006355
Kctd1	potassium channel tetramerisation domain containing 1	1023 +/- 38	927 +/- 23	0.053399196
Kctd3	potassium channel tetramerisation domain containing 3	90 +/- 4	65 +/- 8	0.021230906
Kctd6	potassium channel tetramerisation domain containing 6	1954 +/- 57	1795 +/- 47	0.050304277
Khk	ketohexokinase	241 +/- 5	221 +/- 7	0.037062332
Kif16b	kinesin family member 16B	275 +/- 9	231 +/- 10	0.007245498
Kif1b	kinesin family member 1B	240 +/- 6	201 +/- 4	0.000196566
Klf9	Kruppel-like factor 9	747 +/- 13	661 +/- 11	0.000194872
Klhl2	kelch-like 2, Mayven (Drosophila)	2455 +/- 69	2188 +/- 86	0.030897738
Klhl24	kelch-like 24 (Drosophila)	1070 +/- 14	986 +/- 20	0.006201392
Klhl8	kelch-like 8 (Drosophila)	1020 +/- 28	930 +/- 11	0.015445325
Klk6	kallikrein related-peptidase 6	336 +/- 22	273 +/- 11	0.02564594
Kpna1	karyopherin (importin) alpha 1	659 +/- 22	585 +/- 21	0.030308319
Kremen1	kringle containing transmembrane protein 1	63 +/- 3	50 +/- 4	0.023973752
Krt73	keratin 73	300 +/- 7	265 +/- 10	0.011888603
Lama4	laminin, alpha 4	27 +/- 2	15 +/- 1	0.000216725

Lamp2	lysosomal membrane glycoprotein 2	1719 +/- 88	1465 +/- 56	0.031952121
Lap3	leucine aminopeptidase 3	1432 +/- 34	1324 +/- 27	0.026594186
Lba1	lupus brain antigen 1	3316 +/- 72	2953 +/- 127	0.030321175
Lcat	lecithin cholesterol acyltransferase	545 +/- 27	458 +/- 10	0.01473636
Lcp1	lymphocyte cytosolic protein 1	153 +/- 7	130 +/- 5	0.021833792
Lemd1	LEM domain containing 1	32 +/- 4	20 +/- 2	0.018778856
Leng1	leukocyte receptor cluster (LRC) member 1	182 +/- 4	160 +/- 6	0.008833332
Lepre1	leprecan 1	117 +/- 4	103 +/- 4	0.042223681
Leprot	leptin receptor overlapping transcript	767 +/- 9	715 +/- 16	0.01747318
Lgr6	leucine-rich repeat-containing G protein-coupled receptor 6	83 +/- 3	67 +/- 5	0.017673718
Lhfp	lipoma HMGIC fusion partner	740 +/- 25	675 +/- 13	0.038253304
Lhfp2	lipoma HMGIC fusion partner-like 2	266 +/- 2	239 +/- 5	0.000432537
Lipg	lipase, endothelial	61 +/- 5	41 +/- 4	0.009366053
Lman2	lectin, mannose-binding 2	1251 +/- 52	1044 +/- 31	0.005636297
Lman2l	lectin, mannose-binding 2-like	1461 +/- 51	1305 +/- 19	0.018415967
Lmbr1l	limb region 1 like	135 +/- 6	103 +/- 3	0.00101773
Lnp	limb and neural patterns	735 +/- 18	662 +/- 16	0.008001369
Lnpep	leucyl/cystinyl aminopeptidase	1254 +/- 68	1029 +/- 36	0.014384757
Lonrf3	LON peptidase N-terminal domain and ring finger 3	201 +/- 8	170 +/- 5	0.006990561
Lpp	LIM domain containing preferred translocation partner in lipoma	208 +/- 9	182 +/- 5	0.032885069
Lrba	LPS-responsive beige-like anchor	935 +/- 15	860 +/- 25	0.025080724
Lrch3	leucine-rich repeats and calponin homology (CH) domain containing 3	449 +/- 6	398 +/- 19	0.032833854
Lrch4	leucine-rich repeats and calponin homology (CH) domain containing 4	430 +/- 12	389 +/- 8	0.014062981
Lrig1	leucine-rich repeats and immunoglobulin-like domains 1	237 +/- 7	214 +/- 5	0.01708212
Lrp4	low density lipoprotein receptor-related protein 4	240 +/- 8	215 +/- 9	0.05325129
Lrp8	low density lipoprotein receptor-related protein 8, apolipoprotein e receptor	162 +/- 8	134 +/- 3	0.009155588
Lrrfip1	leucine rich repeat (in FLII) interacting protein 1	162 +/- 7	131 +/- 7	0.009180192
Lrrk2	leucine-rich repeat kinase 2	411 +/- 13	358 +/- 13	0.01327861
Ltv1	LTV1 homolog (S. cerevisiae)	523 +/- 8	479 +/- 11	0.007566676

Luzp1	leucine zipper protein 1	1174 +/- 16	1042 +/- 32	0.00441502
Ly86	lymphocyte antigen 86	499 +/- 26	400 +/- 27	0.017757598
Lypla3	lysophospholipase 3	321 +/- 11	282 +/- 10	0.022017249
Lysmd4	LysM, putative peptidoglycan-binding, domain containing 4	191 +/- 11	153 +/- 4	0.009013968
M6pr	mannose-6-phosphate receptor, cation dependent	1731 +/- 32	1637 +/- 23	0.033553369
Mab2111	mab-21-like 1 (C. elegans)	82 +/- 3	66 +/- 6	0.037356492
Magi2	membrane associated guanylate kinase, WW and PDZ domain containing 2	2142 +/- 26	1990 +/- 17	0.000552338
Man1a2	mannosidase, alpha, class 1A, member 2	2083 +/- 34	1952 +/- 33	0.016627802
Map3k5	mitogen activated protein kinase kinase kinase 5	314 +/- 18	270 +/- 8	0.054104175
Map4k5	Mitogen-activated protein kinase kinase kinase kinase 5	207 +/- 10	163 +/- 17	0.048349777
Mapk11	mitogen-activated protein kinase 11	282 +/- 13	243 +/- 12	0.052118397
Mapkap1	mitogen-activated protein kinase associated protein 1	719 +/- 18	651 +/- 20	0.024232339
Mapre1	microtubule-associated protein, RP/EB family, member 1	593 +/- 17	498 +/- 31	0.020376994
Mbn1	muscleblind-like 1 (Drosophila)	3927 +/- 39	3760 +/- 43	0.014650292
Mbtd1	Mbt domain containing 1	187 +/- 11	151 +/- 11	0.037942497
Mbtps1	membrane-bound transcription factor peptidase, site 1	189 +/- 7	170 +/- 3	0.03181678
Mbtps2	membrane-bound transcription factor peptidase, site 2	1155 +/- 25	1090 +/- 13	0.043010146
Mcart1	mitochondrial carrier triple repeat 1	820 +/- 23	757 +/- 13	0.035810312
Mcee	methylmalonyl CoA epimerase	597 +/- 19	543 +/- 12	0.03313277
Mchr1	melanin-concentrating hormone receptor 1	371 +/- 4	350 +/- 8	0.036104369
Mcl1	myeloid cell leukemia sequence 1	1536 +/- 45	1401 +/- 22	0.022616436
Med9	mediator of RNA polymerase II transcription, subunit 9 homolog (yeast)	413 +/- 10	377 +/- 11	0.027274949
Megf10	multiple EGF-like-domains 10	585 +/- 16	491 +/- 9	0.000299989
Megf6	multiple EGF-like-domains 6	102 +/- 8	83 +/- 4	0.046193538
Mesdc1	mesoderm development candidate 1	64 +/- 2	51 +/- 3	0.001870125
Metap2	methionine aminopeptidase 2	3152 +/- 95	2838 +/- 97	0.037253353
Mett10d	methyltransferase 10 domain containing	513 +/- 14	433 +/- 18	0.003506736
Mett11d1	methyltransferase 11 domain containing 1	1077 +/- 28	988 +/- 28	0.040935237
Mettl3	methyltransferase-like 3	577 +/- 11	522 +/- 17	0.018781785

Mettl4	methyltransferase like 4	107 +/- 5	79 +/- 6	0.004231995
Mfap1	microfibrillar-associated protein 1	1418 +/- 21	1350 +/- 21	0.03784015
Mfap3	microfibrillar-associated protein 3	1212 +/- 20	1126 +/- 20	0.009178305
Mfge8	milk fat globule-EGF factor 8 protein	3325 +/- 72	3084 +/- 61	0.024723505
Mfhas1	malignant fibrous histiocytoma amplified sequence 1	1459 +/- 51	1332 +/- 18	0.044759023
Mfsd1	major facilitator superfamily domain containing 1	711 +/- 13	656 +/- 20	0.038979624
Mga	MAX gene associated	133 +/- 3	113 +/- 6	0.015077277
Mgat4a	mannoside acetylglucosaminyltransferase 4, isoenzyme A	82 +/- 3	69 +/- 4	0.02576907
Mgat5	mannoside acetylglucosaminyltransferase 5	1157 +/- 24	1067 +/- 14	0.007258022
Mgea5	meningioma expressed antigen 5 (hyaluronidase)	2223 +/- 38	2084 +/- 39	0.022837839
Mid1	midline 1	596 +/- 36	443 +/- 55	0.036279466
Mina	myc induced nuclear antigen	444 +/- 14	404 +/- 9	0.031411216
Mipep	mitochondrial intermediate peptidase	863 +/- 14	817 +/- 13	0.027679074
Mitf	microphthalmia-associated transcription factor	443 +/- 22	371 +/- 8	0.014962427
Mkks	McKusick-Kaufman syndrome protein	260 +/- 22	205 +/- 8	0.048392653
Mmp14	matrix metalloproteinase 14 (membrane-inserted)	112 +/- 6	97 +/- 3	0.051378682
Mmp17	matrix metalloproteinase 17	1136 +/- 17	1054 +/- 26	0.02103488
Mobk1b	MOB1, Mps One Binder kinase activator-like 1B (yeast)	624 +/- 13	591 +/- 7	0.043926258
Morc3	microrchidia 3	442 +/- 10	410 +/- 9	0.026714869
Mospd2	motile sperm domain containing 2	809 +/- 15	728 +/- 27	0.024191207
Mov10	Moloney leukemia virus 10	126 +/- 6	102 +/- 7	0.020004607
Mpp6	membrane protein, palmitoylated 6 (MAGUK p55 subfamily member 6)	985 +/- 29	851 +/- 12	0.001788809
Mpv17	Mpv17 transgene, kidney disease mutant	1973 +/- 56	1592 +/- 77	0.001590571
Mpz11	myelin protein zero-like 1	584 +/- 15	542 +/- 10	0.03197432
Mrp63	mitochondrial ribosomal protein 63	317 +/- 2	251 +/- 8	9.29034E-05
Mrp13	mitochondrial ribosomal protein L13	2414 +/- 53	2167 +/- 63	0.010142385
Mrp19	mitochondrial ribosomal protein L19	200 +/- 7	177 +/- 6	0.019576103
Mrp21	mitochondrial ribosomal protein L21	682 +/- 12	645 +/- 8	0.02872668
Mrp51	mitochondrial ribosomal protein L51	333 +/- 7	308 +/- 8	0.035103786

Mrps14	mitochondrial ribosomal protein S14	934 +/- 18	810 +/- 22	0.000775004
Mrps15	mitochondrial ribosomal protein S15	162 +/- 4	127 +/- 4	5.86966E-05
Mrps22	Mitochondrial ribosomal protein S22	42 +/- 3	32 +/- 3	0.048152386
Mrps23	mitochondrial ribosomal protein S23	875 +/- 10	834 +/- 6	0.004598728
Mrps25	mitochondrial ribosomal protein S25	357 +/- 3	332 +/- 7	0.017121828
Mrrf	mitochondrial ribosome recycling factor	504 +/- 21	410 +/- 12	0.002283812
Ms4a6c	membrane-spanning 4-domains, subfamily A, member 6C	74 +/- 10	49 +/- 3	0.039209185
Ms4a6d	membrane-spanning 4-domains, subfamily A, member 6D	40 +/- 6	21 +/- 4	0.023351505
Msn	moesin	236 +/- 10	208 +/- 7	0.040226013
Mtf1	metal response element binding transcription factor 1	472 +/- 19	371 +/- 8	0.000824322
Mtfmt	mitochondrial methionyl-tRNA formyltransferase	222 +/- 6	195 +/- 5	0.005405632
Mthfd2	methylenetetrahydrofolate dehydrogenase (NAD+ dependent), methenyltetrahy	211 +/- 5	187 +/- 4	0.002715326
Mtif3	mitochondrial translational initiation factor 3	279 +/- 10	240 +/- 14	0.039185943
Mtmr4	myotubularin related protein 4	843 +/- 21	771 +/- 18	0.021502401
Mtpn	myotrophin	1354 +/- 26	1218 +/- 30	0.004550956
Mtrr	5-methyltetrahydrofolate-homocysteine methyltransferase reductase	596 +/- 15	524 +/- 22	0.01641887
Mycbpap	Mycbp associated protein	58 +/- 3	42 +/- 5	0.02295377
Myh9	myosin, heavy polypeptide 9, non-muscle	241 +/- 15	202 +/- 9	0.048374644
Mylk	myosin, light polypeptide kinase	478 +/- 15	417 +/- 20	0.031785723
Mynn	myoneurin	190 +/- 7	166 +/- 4	0.0128021
Myo10	myosin X	112 +/- 5	91 +/- 6	0.012216779
Myo9a	myosin IXa	778 +/- 13	727 +/- 19	0.043004877
Myoc	myocilin	396 +/- 26	275 +/- 29	0.008623269
Myrip	myosin VIIA and Rab interacting protein	1805 +/- 61	1607 +/- 32	0.015781042
Mysm1	myb-like, SWIRM and MPN domains 1	303 +/- 12	261 +/- 12	0.02813952
Myst3	MYST histone acetyltransferase (monocytic leukemia) 3	126 +/- 3	109 +/- 6	0.032619937
Myst4	MYST histone acetyltransferase monocytic leukemia 4	128 +/- 5	105 +/- 7	0.021425264
Nans	N-acetylneuraminic acid synthase (sialic acid synthase)	134 +/- 9	112 +/- 3	0.042029161
Ncbp2	nuclear cap binding protein subunit 2	1414 +/- 33	1296 +/- 41	0.045035545

Nck1	non-catalytic region of tyrosine kinase adaptor protein 1	520 +/- 13	478 +/- 7	0.015011131
Nckap1l	NCK associated protein 1 like	169 +/- 12	139 +/- 7	0.051223405
Ncoa3	nuclear receptor coactivator 3	229 +/- 10	185 +/- 10	0.007194717
Ncor1	Nuclear receptor co-repressor 1	163 +/- 10	139 +/- 5	0.050093765
Ndel1	nuclear distribution gene E-like homolog 1 (<i>A. nidulans</i>)	4123 +/- 59	3971 +/- 34	0.046541125
Ndph	Norrie disease homolog	226 +/- 6	194 +/- 6	0.003330684
Ndufa11	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex 11	135 +/- 8	107 +/- 4	0.012140163
Ndufs4	NADH dehydrogenase (ubiquinone) Fe-S protein 4	633 +/- 14	585 +/- 12	0.023198428
Necap2	NECAP endocytosis associated 2	504 +/- 12	463 +/- 11	0.031092032
Nedd4l	neural precursor cell expressed, developmentally down-regulated gene 4-like	498 +/- 14	432 +/- 10	0.001692661
Nedd9	neural precursor cell expressed, developmentally down-regulated gene 9	477 +/- 39	369 +/- 21	0.032310961
Nefm	neurofilament, medium polypeptide	3116 +/- 67	2878 +/- 79	0.037904911
Nek1	NIMA (never in mitosis gene a)-related expressed kinase 1	968 +/- 21	895 +/- 12	0.011553721
Nek6	NIMA (never in mitosis gene a)-related expressed kinase 6	38 +/- 3	26 +/- 2	0.011750023
Nek7	NIMA (never in mitosis gene a)-related expressed kinase 7	1420 +/- 38	1300 +/- 25	0.020715646
Net1	neuroepithelial cell transforming gene 1	354 +/- 16	305 +/- 7	0.018880476
Neto2	neuropilin (NRP) and tolloid (TLL)-like 2	1119 +/- 14	1074 +/- 14	0.039423566
Nfia	nuclear factor I/A	139 +/- 3	122 +/- 5	0.010945061
Nfib	nuclear factor I/B	1739 +/- 30	1592 +/- 51	0.029557205
Nfya	nuclear transcription factor-Y alpha	432 +/- 9	359 +/- 5	7.58049E-05
Nfyc	Nuclear transcription factor-Y gamma	47 +/- 2	33 +/- 6	0.049826043
Ngdn	neuroguidin, EIF4E binding protein	1009 +/- 28	882 +/- 15	0.002181683
Nin	Ninein	362 +/- 16	317 +/- 10	0.035651263
Nipbl	Nipped-B homolog (<i>Drosophila</i>)	105 +/- 9	81 +/- 6	0.044463389
Nipsnap3a	nipsnap homolog 3A (<i>C. elegans</i>)	709 +/- 13	665 +/- 10	0.017557141
Nit2	nitrilase family, member 2	250 +/- 5	234 +/- 4	0.025773945
Nlk	nemo like kinase	3456 +/- 118	3107 +/- 98	0.039959664
Nmnat1	nicotinamide nucleotide adenylyltransferase 1	87 +/- 4	71 +/- 4	0.016489359
Noc3l	nucleolar complex associated 3 homolog (<i>S. cerevisiae</i>)	274 +/- 8	223 +/- 7	0.000272038

Nol7	nucleolar protein 7	200 +/- 4	167 +/- 6	0.000658917
Nol9	nucleolar protein 9	59 +/- 4	47 +/- 3	0.038489488
Nova2	neuro-oncological ventral antigen 2	1903 +/- 61	1564 +/- 142	0.054506906
Nptx2	neuronal pentraxin 2	132 +/- 7	105 +/- 7	0.01509881
Npy	neuropeptide Y	2564 +/- 66	2330 +/- 86	0.053315765
Npy5r	neuropeptide Y receptor Y5	332 +/- 12	290 +/- 8	0.011963037
Nqo2	NAD(P)H dehydrogenase, quinone 2	121 +/- 6	102 +/- 6	0.044225568
Nr5a2	nuclear receptor subfamily 5, group A, member 2	49 +/- 2	33 +/- 5	0.015012792
Nrp2	neuropilin 2	942 +/- 15	836 +/- 38	0.029453996
Nsg2	neuron specific gene family member 2	577 +/- 12	487 +/- 25	0.00936486
Nsmce4a	non-SMC element 4 homolog A (<i>S. cerevisiae</i>)	341 +/- 19	281 +/- 17	0.037002693
Nubp1	nucleotide binding protein 1	219 +/- 8	186 +/- 6	0.004315698
Nucks1	nuclear casein kinase and cyclin-dependent kinase substrate 1	1445 +/- 41	1327 +/- 37	0.051313296
Nudt10	nudix (nucleoside diphosphate linked moiety X)-type motif 10	500 +/- 35	373 +/- 27	0.012122802
Nuf2	NUF2, NDC80 kinetochore complex component, homolog (<i>S. cerevisiae</i>)	137 +/- 12	104 +/- 8	0.050289581
Numa1	nuclear mitotic apparatus protein 1	908 +/- 24	847 +/- 9	0.040846929
Numbl	numb-like	967 +/- 20	904 +/- 19	0.039750637
Nup153	nucleoporin 153	266 +/- 6	231 +/- 8	0.00287829
Nup54	nucleoporin 54	746 +/- 32	659 +/- 21	0.04500954
Nupl1	nucleoporin like 1	974 +/- 19	902 +/- 21	0.025897197
Nusap1	Nucleolar and spindle associated protein 1	205 +/- 8	154 +/- 10	0.001198125
Ocl1	occludin/ELL domain containing 1	210 +/- 6	186 +/- 8	0.027609996
Odc1	ornithine decarboxylase, structural 1	1632 +/- 36	1514 +/- 35	0.035449044
Ogfod1	2-oxoglutarate and iron-dependent oxygenase domain containing 1	516 +/- 15	460 +/- 14	0.019286426
Ogfr	opioid growth factor receptor	1126 +/- 46	1014 +/- 20	0.049752277
Ogt	O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamin	1842 +/- 33	1740 +/- 27	0.030743069
Olfm3	olfactomedin 3	44 +/- 4	33 +/- 1	0.034107483
Olfml3	olfactomedin-like 3	575 +/- 44	331 +/- 21	0.000541769
Ophn1	oligophrenin 1	377 +/- 6	351 +/- 10	0.044192398

Oprk1	opioid receptor, kappa 1	61 +/- 2	46 +/- 4	0.0097516
ORF28	open reading frame 28	235 +/- 12	205 +/- 5	0.046441111
Ormdl1	ORM1-like 1 (<i>S. cerevisiae</i>)	506 +/- 15	462 +/- 14	0.048825254
Ormdl2	ORM1-like 2 (<i>S. cerevisiae</i>)	433 +/- 18	378 +/- 11	0.021386467
Osbpl6	oxysterol binding protein-like 6	1026 +/- 25	928 +/- 32	0.031563819
Osgin2	oxidative stress induced growth inhibitor family member 2	366 +/- 4	334 +/- 9	0.009948824
USG000000	predicted gene, OTTMUSG00000000720	194 +/- 16	147 +/- 6	0.021533825
Otub2	OTU domain, ubiquitin aldehyde binding 2	400 +/- 16	349 +/- 10	0.022315579
Otud1	OTU domain containing 1	444 +/- 12	408 +/- 10	0.041271234
Otud6b	OTU domain containing 6B	1268 +/- 12	1208 +/- 15	0.009074882
Oxa1l	oxidase assembly 1-like	210 +/- 9	186 +/- 4	0.034789723
P2rx4	Purinergic receptor P2X, ligand-gated ion channel 4	79 +/- 4	64 +/- 4	0.019737669
P4ha1	procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha	331 +/- 13	267 +/- 13	0.003693686
Paip1	polyadenylate binding protein-interacting protein 1	1309 +/- 26	1217 +/- 25	0.024781311
Pank1	pantothenate kinase 1	366 +/- 8	325 +/- 10	0.00606609
Pank2	pantothenate kinase 2 (Hallervorden-Spatz syndrome)	352 +/- 12	288 +/- 13	0.002564635
Papola	poly (A) polymerase alpha	634 +/- 7	587 +/- 12	0.007073998
Paqr7	progesterin and adipoQ receptor family member VII	1533 +/- 26	1420 +/- 16	0.002900056
Paqr8	progesterin and adipoQ receptor family member VIII	781 +/- 21	688 +/- 20	0.007331528
Parp1	poly (ADP-ribose) polymerase family, member 1	1481 +/- 39	1336 +/- 46	0.031110665
Pbx1	pre B-cell leukemia transcription factor 1	261 +/- 12	214 +/- 6	0.005182229
Pcdha10	protocadherin alpha 10	37 +/- 2	30 +/- 2	0.038164236
Pcdha11	protocadherin alpha 11	77 +/- 3	58 +/- 7	0.034976271
Pcdha4	protocadherin alpha 4	1819 +/- 44	1684 +/- 34	0.031448211
Pcdhb19	protocadherin beta 19	164 +/- 8	142 +/- 6	0.049871711
Pcdhb3	protocadherin beta 3	734 +/- 25	646 +/- 20	0.018134221
Pcf11	cleavage and polyadenylation factor subunit homolog (<i>S. cerevisiae</i>)	411 +/- 6	353 +/- 13	0.003522649
Pcmt1	protein-L-isoaspartate (D-aspartate) O-methyltransferase domain containing 1	735 +/- 14	661 +/- 24	0.024452328
Pcmt2	Protein-L-isoaspartate (D-aspartate) O-methyltransferase domain containing 2	53 +/- 3	42 +/- 3	0.01227304

Pcx	pyruvate carboxylase	171 +/- 8	147 +/- 5	0.026542691
Pcyt1a	phosphate cytidyltransferase 1, choline, alpha isoform	291 +/- 11	263 +/- 6	0.054401181
Pcyt1b	phosphate cytidyltransferase 1, choline, beta isoform	203 +/- 9	180 +/- 5	0.038998568
Pdcd6ip	programmed cell death 6 interacting protein	494 +/- 19	432 +/- 14	0.023518147
Pdcl	phosducin-like	1040 +/- 22	928 +/- 22	0.002772284
Pde4dip	phosphodiesterase 4D interacting protein (myomegalin)	221 +/- 7	191 +/- 6	0.005558765
Pde7b	phosphodiesterase 7B	66 +/- 5	47 +/- 5	0.019987585
Pdia3	protein disulfide isomerase associated 3	3789 +/- 79	3494 +/- 80	0.019838953
Pdia4	protein disulfide isomerase associated 4	454 +/- 16	369 +/- 12	0.001149482
Pdia6	protein disulfide isomerase associated 6	1081 +/- 20	937 +/- 23	0.000314159
Pdlim3	PDZ and LIM domain 3	43 +/- 4	30 +/- 3	0.027036654
Pdzd2	PDZ domain containing 2	169 +/- 12	130 +/- 6	0.017604422
Pes1	pescadillo homolog 1, containing BRCT domain (zebrafish)	220 +/- 11	162 +/- 13	0.004226883
Pex13	peroxisomal biogenesis factor 13	1401 +/- 21	1327 +/- 19	0.019072287
Pex26	peroxisome biogenesis factor 26	401 +/- 13	354 +/- 10	0.01578559
Pex5	peroxisome biogenesis factor 5	523 +/- 11	442 +/- 16	0.001236049
Pex6	peroxisomal biogenesis factor 6	1076 +/- 14	952 +/- 38	0.014370587
Pfkfb1	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 1	85 +/- 5	70 +/- 5	0.043545857
Pfkfb2	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 2	61 +/- 5	47 +/- 3	0.021612292
Pfkp	phosphofructokinase, platelet	1248 +/- 71	1047 +/- 61	0.049026512
Pftk1	PFTAIRE protein kinase 1	698 +/- 22	614 +/- 20	0.015509541
Pgm5	phosphoglucomutase 5	79 +/- 3	68 +/- 4	0.035302205
Phb	prohibitin	944 +/- 25	872 +/- 15	0.030790307
Phf10	PHD finger protein 10	613 +/- 8	547 +/- 16	0.004501626
Phf20l1	PHD finger protein 20-like 1	1352 +/- 27	1248 +/- 24	0.012899329
Phf21a	PHD finger protein 21A	251 +/- 5	228 +/- 8	0.035711359
Phf8	PHD finger protein 8	553 +/- 11	507 +/- 10	0.007811743
Phka1	phosphorylase kinase alpha 1	520 +/- 10	466 +/- 13	0.006065347
Phf2	putative homeodomain transcription factor 2	257 +/- 5	225 +/- 7	0.00320673

Phxr4	per-hexamer repeat gene 4	280 +/- 9	243 +/- 14	0.049731333
Pi4k2b	phosphatidylinositol 4-kinase type 2 beta	28 +/- 2	16 +/- 3	0.009181059
Pias4	protein inhibitor of activated STAT 4	736 +/- 44	582 +/- 38	0.018443601
Pigh	phosphatidylinositol glycan anchor biosynthesis, class H	36 +/- 3	26 +/- 3	0.029697696
Pigq	phosphatidylinositol glycan anchor biosynthesis, class Q	1513 +/- 20	1390 +/- 28	0.003897127
Pigv	phosphatidylinositol glycan anchor biosynthesis, class V	142 +/- 5	124 +/- 5	0.033909426
Pik3ca	phosphatidylinositol 3-kinase, catalytic, alpha polypeptide	877 +/- 18	814 +/- 19	0.032443625
Pik3cd	phosphatidylinositol 3-kinase catalytic delta polypeptide	975 +/- 14	838 +/- 47	0.022681264
Pik3r1	phosphatidylinositol 3-kinase, regulatory subunit, polypeptide 1 (p85 alpha)	1592 +/- 27	1499 +/- 34	0.050849988
Pim2	proviral integration site 2	916 +/- 14	859 +/- 13	0.010121279
Pip5k1b	Phosphatidylinositol-4-phosphate 5-kinase, type 1 beta	1343 +/- 73	1136 +/- 27	0.027260605
Pip5k2a	phosphatidylinositol-4-phosphate 5-kinase, type II, alpha	562 +/- 14	481 +/- 19	0.00481423
Pkd1l2	polycystic kidney disease 1 like 2	53 +/- 1	43 +/- 2	0.007356516
Pknox1	Pbx/knotted 1 homeobox	254 +/- 2	231 +/- 5	0.002237942
Pknox2	Pbx/knotted 1 homeobox 2	284 +/- 9	249 +/- 9	0.014631021
Pla2g4a	phospholipase A2, group IVA (cytosolic, calcium-dependent)	141 +/- 9	109 +/- 6	0.011647901
Pla2g6	phospholipase A2, group VI	133 +/- 4	118 +/- 3	0.006564206
Plaa	phospholipase A2, activating protein	38 +/- 6	23 +/- 2	0.039605518
Plcd4	phospholipase C, delta 4	418 +/- 13	367 +/- 11	0.008225938
Plce1	phospholipase C, epsilon 1	424 +/- 15	371 +/- 17	0.036122562
Plcg1	phospholipase C, gamma 1	925 +/- 18	825 +/- 40	0.047677119
Plcl4	phospholipase C-like 4	1152 +/- 39	1051 +/- 24	0.050063413
Plcx2	phosphatidylinositol-specific phospholipase C, X domain containing 2	1012 +/- 197	499 +/- 69	0.037359482
Plekha1	pleckstrin homology domain containing, family A (phosphoinositide binding spe	1910 +/- 22	1821 +/- 29	0.032137833
Plekhc1	pleckstrin homology domain containing, family C (with FERM domain) member	1141 +/- 21	1069 +/- 6	0.01057493
Plekhf1	pleckstrin homology domain containing, family F (with FYVE domain) member	253 +/- 21	198 +/- 10	0.039985541
Plekhn1	pleckstrin homology domain containing, family N member 1	191 +/- 8	169 +/- 5	0.029631984
Plxdc1	plexin domain containing 1	513 +/- 20	437 +/- 10	0.00791456
Plxnc1	plexin C1	160 +/- 7	143 +/- 5	0.054833944

Pml	promyelocytic leukemia	163 +/- 6	133 +/- 9	0.014530514
Pnma2	paraneoplastic antigen MA2	1896 +/- 24	1742 +/- 24	0.000588143
Pnn	pinin	1054 +/- 27	982 +/- 20	0.051209868
Pnp	purine-nucleoside phosphorylase	1250 +/- 39	1103 +/- 17	0.006587484
Pold3	polymerase (DNA-directed), delta 3, accessory subunit	365 +/- 12	334 +/- 6	0.04849573
Polg	polymerase (DNA directed), gamma	766 +/- 16	711 +/- 11	0.015464242
Polr3d	polymerase (RNA) III (DNA directed) polypeptide D	365 +/- 17	311 +/- 7	0.014519057
Pomt1	protein-O-mannosyltransferase 1	240 +/- 8	206 +/- 4	0.002303655
Pot1a	protection of telomeres 1A	398 +/- 15	358 +/- 8	0.037354001
Pou2f2	POU domain, class 2, transcription factor 2	87 +/- 6	58 +/- 6	0.004715774
Ppap2a	phosphatidic acid phosphatase 2a	919 +/- 24	816 +/- 27	0.013757602
Pphln1	periphilin 1	1231 +/- 12	1175 +/- 16	0.017433953
Ppm1l	protein phosphatase 1 (formerly 2C)-like	1451 +/- 61	1303 +/- 30	0.054429446
Ppm2c	protein phosphatase 2C, magnesium dependent, catalytic subunit	1886 +/- 87	1655 +/- 55	0.04491351
Ppp1cb	protein phosphatase 1, catalytic subunit, beta isoform	412 +/- 32	317 +/- 26	0.037454256
Ppp1r12b	Protein phosphatase 1, regulatory (inhibitor) subunit 12B	60 +/- 4	45 +/- 3	0.01095376
Ppp1r3g	protein phosphatase 1, regulatory (inhibitor) subunit 3G	283 +/- 10	230 +/- 10	0.002285579
Ppp1r8	protein phosphatase 1, regulatory (inhibitor) subunit 8	1212 +/- 73	1031 +/- 19	0.044190643
Ppp2cb	protein phosphatase 2 (formerly 2A), catalytic subunit, beta isoform	39 +/- 2	31 +/- 2	0.031742889
Ppp2r2a	protein phosphatase 2 (formerly 2A), regulatory subunit B (PR 52), alpha isoform	218 +/- 13	185 +/- 8	0.052800179
Ppp2r5a	protein phosphatase 2, regulatory subunit B (B56), alpha isoform	1683 +/- 34	1547 +/- 20	0.005320569
Ppp2r5c	protein phosphatase 2, regulatory subunit B (B56), gamma isoform	392 +/- 13	331 +/- 8	0.002497696
Ppt2	palmitoyl-protein thioesterase 2	845 +/- 48	704 +/- 34	0.031934052
Pqlc1	PQ loop repeat containing 1	368 +/- 13	322 +/- 7	0.010708782
Prdm10	PR domain containing 10	256 +/- 13	199 +/- 13	0.008626098
Prdm2	PR domain containing 2, with ZNF domain	163 +/- 7	138 +/- 9	0.039265669
Prelp	proline arginine-rich end leucine-rich repeat	484 +/- 44	377 +/- 23	0.053166757
Prkab2	protein kinase, AMP-activated, beta 2 non-catalytic subunit	365 +/- 10	315 +/- 12	0.007093837
Prkag2	protein kinase, AMP-activated, gamma 2 non-catalytic subunit	1853 +/- 20	1783 +/- 19	0.02494322

Prkar1a	protein kinase, cAMP dependent regulatory, type I, alpha	131 +/- 10	104 +/- 6	0.038459254
Prkar1b	protein kinase, cAMP dependent regulatory, type I beta	4248 +/- 189	3220 +/- 234	0.004386011
Prmt8	protein arginine N-methyltransferase 8	2729 +/- 54	2487 +/- 79	0.025891072
Prokr2	prokineticin receptor 2	94 +/- 9	72 +/- 5	0.045520252
Prpf38b	PRP38 pre-mRNA processing factor 38 (yeast) domain containing B	856 +/- 9	756 +/- 28	0.01097263
Prpf40a	PRP40 pre-mRNA processing factor 40 homolog A (yeast)	187 +/- 5	164 +/- 6	0.017753686
Prpf4b	PRP4 pre-mRNA processing factor 4 homolog B (yeast)	485 +/- 6	417 +/- 19	0.00926509
Prpf6	PRP6 pre-mRNA splicing factor 6 homolog (yeast)	1237 +/- 14	1171 +/- 23	0.03591811
Prrg3	proline rich Gla (G-carboxyglutamic acid) 3 (transmembrane)	738 +/- 28	631 +/- 15	0.007031532
Prrt1	proline-rich transmembrane protein 1	314 +/- 12	247 +/- 16	0.00511272
Prss16	protease, serine, 16 (thymus)	136 +/- 9	110 +/- 8	0.047273308
Prss23	protease, serine, 23	530 +/- 52	384 +/- 29	0.031306707
Psd2	pleckstrin and Sec7 domain containing 2	793 +/- 29	641 +/- 22	0.001362523
Psg21	pregnancy-specific glycoprotein 21	52 +/- 4	38 +/- 4	0.03372312
Pstk	phosphoseryl-tRNA kinase	118 +/- 9	80 +/- 8	0.005203965
Ptchd2	patched domain containing 2	54 +/- 5	43 +/- 2	0.049450425
Ptges3	prostaglandin E synthase 3 (cytosolic)	5394 +/- 93	5082 +/- 100	0.038721288
Ptgs2	prostaglandin-endoperoxide synthase 2	486 +/- 14	439 +/- 15	0.03812142
Ptpla	protein tyrosine phosphatase-like (proline instead of catalytic arginine), membe	1062 +/- 20	962 +/- 21	0.003832946
Ptplad1	protein tyrosine phosphatase-like A domain containing 1	2525 +/- 60	2346 +/- 46	0.034688248
Ptprc	protein tyrosine phosphatase, receptor type, C	196 +/- 8	169 +/- 9	0.040400525
Ptprf	protein tyrosine phosphatase, receptor type, F	887 +/- 33	803 +/- 22	0.052372963
Ptprij	protein tyrosine phosphatase, receptor type, J	1231 +/- 18	1125 +/- 18	0.001257972
Ptpri	protein tyrosine phosphatase, receptor type, T	1278 +/- 20	1210 +/- 22	0.03981133
Pum2	pumilio 2 (Drosophila)	2381 +/- 57	2132 +/- 58	0.008149109
Pvr	poliovirus receptor	183 +/- 4	164 +/- 7	0.040792749
Pwp2	PWP2 periodic tryptophan protein homolog (yeast)	435 +/- 15	388 +/- 11	0.023831474
Pycr1	pyrroline-5-carboxylate reductase 1	46 +/- 3	33 +/- 2	0.003549777
Rab11a	RAB11a, member RAS oncogene family	2780 +/- 46	2573 +/- 73	0.033650299

Rab13	RAB13, member RAS oncogene family	189 +/- 4	167 +/- 5	0.005347923
Rab14	RAB14, member RAS oncogene family	1714 +/- 21	1630 +/- 28	0.032372907
Rab23	RAB23, member RAS oncogene family	580 +/- 10	530 +/- 18	0.037689351
Rab27b	RAB27b, member RAS oncogene family	717 +/- 41	591 +/- 43	0.054233102
Rab31	RAB31, member RAS oncogene family	1347 +/- 33	1199 +/- 25	0.003584437
Rab40c	Rab40c, member RAS oncogene family	385 +/- 15	337 +/- 13	0.031499273
Rab6b	RAB6B, member RAS oncogene family	1061 +/- 20	1007 +/- 15	0.05115384
Rab8a	RAB8A, member RAS oncogene family	104 +/- 3	91 +/- 4	0.028955358
Rab8b	RAB8B, member RAS oncogene family	3035 +/- 64	2787 +/- 65	0.016532162
Rabep1	rabaptin, RAB GTPase binding effector protein 1	852 +/- 21	760 +/- 15	0.004171807
Rabgap1	RAB GTPase activating protein 1	434 +/- 13	400 +/- 10	0.054355166
Rabgef1	RAB guanine nucleotide exchange factor (GEF) 1	399 +/- 9	370 +/- 4	0.017410936
Rad51I3	RAD51-like 3 (<i>S. cerevisiae</i>)	186 +/- 8	157 +/- 10	0.031844502
Ralb	v-ral simian leukemia viral oncogene homolog B (ras related)	452 +/- 18	384 +/- 14	0.010750681
Ralgps2	Ral GEF with PH domain and SH3 binding motif 2	114 +/- 3	91 +/- 5	0.002444738
Raly	hnRNP-associated with lethal yellow	556 +/- 12	510 +/- 10	0.01228644
Ranbp6	RAN binding protein 6	526 +/- 21	474 +/- 11	0.053499305
Rangap1	RAN GTPase activating protein 1	76 +/- 4	55 +/- 2	0.000922265
Rapgef6	Rap guanine nucleotide exchange factor (GEF) 6	164 +/- 10	140 +/- 4	0.048161072
Rarb	retinoic acid receptor, beta	194 +/- 10	160 +/- 7	0.012693743
Rassf4	Ras association (RalGDS/AF-6) domain family 4	75 +/- 5	56 +/- 4	0.011222084
Rbbp5	retinoblastoma binding protein 5	1052 +/- 21	970 +/- 23	0.018706451
Rbbp8	retinoblastoma binding protein 8	54 +/- 2	39 +/- 3	0.000830338
Rbm10	RNA binding motif protein 10	362 +/- 11	325 +/- 4	0.01225061
Rbm12b	RNA binding motif protein 12B	167 +/- 12	134 +/- 9	0.047589648
Rbm18	RNA binding motif protein 18	1228 +/- 55	1043 +/- 47	0.022907678
Rbm28	RNA binding motif protein 28	279 +/- 14	215 +/- 16	0.00862893
Rbm3	RNA binding motif protein 3	130 +/- 10	94 +/- 8	0.013505673
Rbm4	RNA binding motif protein 4	484 +/- 12	447 +/- 13	0.051378317

Rbm9	RNA binding motif protein 9	569 +/- 11	490 +/- 9	0.000140196
Rbpsuh	recombining binding protein suppressor of hairless (Drosophila)	429 +/- 12	373 +/- 7	0.002202551
Rcor1	REST corepressor 1	643 +/- 19	554 +/- 21	0.007735199
Rcsd1	RCSD domain containing 1	231 +/- 10	190 +/- 7	0.004492941
Rdm1	RAD52 motif 1	339 +/- 35	235 +/- 10	0.019986058
Recql	RecQ protein-like	74 +/- 3	57 +/- 3	0.004203151
Rela	v-rel reticuloendotheliosis viral oncogene homolog A (avian)	982 +/- 15	904 +/- 28	0.034015586
Repin1	replication initiator 1	177 +/- 3	159 +/- 4	0.005862961
Reps2	RALBP1 associated Eps domain containing protein 2	496 +/- 9	420 +/- 24	0.014377494
Rexo4	REX4, RNA exonuclease 4 homolog (S. cerevisiae)	723 +/- 16	664 +/- 16	0.018142465
Rfc2	replication factor C (activator 1) 2	861 +/- 22	798 +/- 9	0.025734884
Rfx3	Regulatory factor X, 3 (influences HLA class II expression)	945 +/- 41	812 +/- 20	0.01574112
Rfxap	regulatory factor X-associated protein	512 +/- 13	478 +/- 8	0.045847042
Rgs5	regulator of G-protein signaling 5	797 +/- 24	713 +/- 31	0.051704123
Rgs7bp	regulator of G-protein signalling 7 binding protein	2437 +/- 70	2200 +/- 32	0.012031621
Rgs8	regulator of G-protein signaling 8	891 +/- 11	822 +/- 22	0.018312851
Rgs9	regulator of G-protein signaling 9	285 +/- 23	232 +/- 5	0.051521808
Rhobtb2	Rho-related BTB domain containing 2	561 +/- 18	492 +/- 25	0.04306604
Rhoc	ras homolog gene family, member C	484 +/- 31	375 +/- 22	0.013137838
Rhoj	ras homolog gene family, member J	161 +/- 9	122 +/- 6	0.003684568
Rhot1	ras homolog gene family, member T1	2223 +/- 20	2102 +/- 24	0.001715221
Rian	RNA imprinted and accumulated in nucleus	4480 +/- 739	2671 +/- 245	0.046834296
Ric8	resistance to inhibitors of cholinesterase 8 homolog (C. elegans)	881 +/- 9	815 +/- 23	0.024083689
Rlbp1	retinaldehyde binding protein 1	458 +/- 7	426 +/- 12	0.043710716
Rmnd1	required for meiotic nuclear division 1 homolog (S. cerevisiae)	369 +/- 8	333 +/- 13	0.035075827
Rnf125	ring finger protein 125	177 +/- 6	148 +/- 8	0.009610766
Rnf130	ring finger protein 130	1308 +/- 47	1192 +/- 20	0.04839746
Rnf2	ring finger protein 2	1640 +/- 65	1414 +/- 40	0.011902495
Rnf20	ring finger protein 20	1002 +/- 10	887 +/- 19	0.00034455

Rnf25	Ring finger protein 25	182 +/- 6	162 +/- 8	0.053756058
Rnf32	ring finger protein 32	392 +/- 9	355 +/- 11	0.023548123
Rnf34	ring finger protein 34	2189 +/- 15	2134 +/- 18	0.034107005
Rnpep	arginyl aminopeptidase (aminopeptidase B)	425 +/- 20	369 +/- 17	0.05101456
Rock2	Rho-associated coiled-coil containing protein kinase 2	1615 +/- 22	1521 +/- 37	0.053892908
Rod1	ROD1 regulator of differentiation 1 (S. pombe)	42 +/- 4	29 +/- 3	0.028368813
Ror1	Receptor tyrosine kinase-like orphan receptor 1	109 +/- 6	91 +/- 4	0.030125693
Rora	RAR-related orphan receptor alpha	355 +/- 17	301 +/- 15	0.031148004
Rorb	RAR-related orphan receptor beta	339 +/- 8	281 +/- 14	0.003839195
Rp2h	retinitis pigmentosa 2 homolog (human)	123 +/- 6	97 +/- 7	0.015992987
Rpe	ribulose-5-phosphate-3-epimerase	630 +/- 25	553 +/- 22	0.037545275
Rph3a	rabphilin 3A	572 +/- 9	526 +/- 13	0.011896969
Rpn1	ribophorin I	4286 +/- 70	4092 +/- 47	0.039541534
Rps6ka6	ribosomal protein S6 kinase polypeptide 6	65 +/- 2	51 +/- 2	0.000488512
Rptn	repetin	34 +/- 3	25 +/- 2	0.032374373
Rsc1a1	regulatory solute carrier protein, family 1, member 1	1109 +/- 43	953 +/- 30	0.010810119
Rtn4ip1	reticulon 4 interacting protein 1	277 +/- 9	227 +/- 7	0.000721372
Rwdd4a	RWD domain containing 4A	1137 +/- 55	995 +/- 27	0.041392959
S100pbp	S100P binding protein	325 +/- 13	290 +/- 8	0.04064477
Sacm1l	SAC1 (suppressor of actin mutations 1, homolog)-like (S. cerevisiae)	2202 +/- 38	2060 +/- 36	0.017195187
Sall1	sal-like 1 (Drosophila)	134 +/- 7	107 +/- 9	0.028352156
Saps2	SAPS domain family, member 2	162 +/- 6	147 +/- 3	0.051282978
Saps3	SAPS domain family, member 3	720 +/- 17	671 +/- 14	0.046217531
Sart2	squamous cell carcinoma antigen recognized by T cells 2	51 +/- 3	38 +/- 3	0.006989242
Sbk1	SH3-binding kinase 1	1104 +/- 45	963 +/- 28	0.021377581
Sbno1	sno, strawberry notch homolog 1 (Drosophila)	757 +/- 19	636 +/- 26	0.002282886
Sc4mol	sterol-C4-methyl oxidase-like	2370 +/- 45	2103 +/- 43	0.000698007
Sc5d	sterol-C5-desaturase (fungal ERG3, delta-5-desaturase) homolog (S. cerevisiae)	949 +/- 39	767 +/- 24	0.002025471
Scarb2	scavenger receptor class B, member 2	1129 +/- 17	1045 +/- 18	0.004625835

Scpep1	serine carboxypeptidase 1	840 +/- 34	750 +/- 25	0.052675516
Sdhc	succinate dehydrogenase complex, subunit C, integral membrane protein	1780 +/- 77	1438 +/- 130	0.044003032
Sec22b	SEC22 vesicle trafficking protein homolog B (<i>S. cerevisiae</i>)	997 +/- 12	940 +/- 20	0.035045695
Sec24b	SEC24 related gene family, member B (<i>S. cerevisiae</i>)	438 +/- 6	383 +/- 9	0.000382506
Sec61a1	Sec61 alpha 1 subunit (<i>S. cerevisiae</i>)	967 +/- 31	870 +/- 24	0.028211274
Sec61a2	Sec61, alpha subunit 2 (<i>S. cerevisiae</i>)	2365 +/- 32	2259 +/- 33	0.036251934
Selk	selenoprotein K	3467 +/- 99	3059 +/- 84	0.008321284
Selpl	selectin, platelet (p-selectin) ligand	791 +/- 46	635 +/- 20	0.011817213
Senp2	SUMO/sentrin specific peptidase 2	800 +/- 15	750 +/- 17	0.046821701
Senp6	SUMO/sentrin specific peptidase 6	306 +/- 8	269 +/- 13	0.032985997
Senp8	SUMO/sentrin specific peptidase 8	124 +/- 7	85 +/- 12	0.014405325
Serac1	serine active site containing 1	147 +/- 5	130 +/- 5	0.027600451
Serbp1	Serpine1 mRNA binding protein 1	290 +/- 6	261 +/- 12	0.046931746
Serf2	small EDRK-rich factor 2	1444 +/- 49	1285 +/- 41	0.026793361
Serpina3n	serine (or cysteine) peptidase inhibitor, clade A, member 3N	535 +/- 36	439 +/- 25	0.047512876
Serpib11	serine (or cysteine) peptidase inhibitor, clade B (ovalbumin), member 11	41 +/- 3	28 +/- 3	0.005089873
Serpib1a	serine (or cysteine) peptidase inhibitor, clade B, member 1a	50 +/- 4	38 +/- 4	0.051423516
Serpib9	serine (or cysteine) peptidase inhibitor, clade B, member 9	67 +/- 3	51 +/- 3	0.002476494
Setd3	SET domain containing 3	2224 +/- 49	2037 +/- 27	0.006461621
Setd7	SET domain containing (lysine methyltransferase) 7	3194 +/- 28	2880 +/- 32	1.08796E-05
Sf1	Splicing factor 1	1914 +/- 35	1776 +/- 48	0.036962363
Sfmbt1	Scm-like with four mbt domains 1	103 +/- 5	91 +/- 2	0.049695409
Sfpq	splicing factor proline/glutamine rich (polypyrimidine tract binding protein assoc	1972 +/- 70	1629 +/- 53	0.001821038
Sfrp4	secreted frizzled-related sequence protein 4	225 +/- 10	190 +/- 9	0.02216238
Sfrs1	splicing factor, arginine/serine-rich 1 (ASF/SF2)	1081 +/- 27	984 +/- 19	0.01254505
Sfrs14	splicing factor, arginine/serine-rich 14	1479 +/- 37	1343 +/- 23	0.0094041
Sfrs6	splicing factor, arginine/serine-rich 6	2954 +/- 48	2689 +/- 42	0.000992402
Sftpb	surfactant associated protein B	135 +/- 7	100 +/- 13	0.039279223
Sh3bgrl2	SH3 domain binding glutamic acid-rich protein like 2	407 +/- 13	356 +/- 13	0.01539835

Sh3bp5l	SH3 binding domain protein 5 like	539 +/- 13	459 +/- 9	0.000258348
Sh3kbp1	SH3-domain kinase binding protein 1	332 +/- 7	287 +/- 8	0.00116848
Sh3px3	SH3 and PX domain containing 3	247 +/- 8	216 +/- 7	0.016079262
Shh	sonic hedgehog	273 +/- 14	198 +/- 11	0.001264409
Shprh	SNF2 histone linker PHD RING helicase	535 +/- 15	471 +/- 17	0.015190515
Shq1	SHQ1 homolog (<i>S. cerevisiae</i>)	119 +/- 4	109 +/- 3	0.048011988
Sipa1l2	signal-induced proliferation-associated 1 like 2	958 +/- 25	875 +/- 19	0.020381857
Skap2	src family associated phosphoprotein 2	749 +/- 22	674 +/- 14	0.013161434
Sla	src-like adaptor	175 +/- 10	147 +/- 9	0.054860949
Slc11a2	solute carrier family 11 (proton-coupled divalent metal ion transporters), memb	86 +/- 5	65 +/- 7	0.020746524
Slc14a1	solute carrier family 14 (urea transporter), member 1	369 +/- 12	322 +/- 18	0.047239474
Slc19a1	solute carrier family 19 (sodium/hydrogen exchanger), member 1	556 +/- 15	486 +/- 25	0.034255716
Slc19a2	solute carrier family 19 (thiamine transporter), member 2	212 +/- 8	184 +/- 5	0.014789693
Slc1a2	solute carrier family 1 (glial high affinity glutamate transporter), member 2	464 +/- 16	404 +/- 16	0.020605161
Slc1a4	solute carrier family 1 (glutamate/neutral amino acid transporter), member 4	732 +/- 9	673 +/- 9	0.000598579
Slc20a1	solute carrier family 20, member 1	121 +/- 7	88 +/- 9	0.010418643
Slc24a6	solute carrier family 24 (sodium/potassium/calcium exchanger), member 6	229 +/- 7	201 +/- 8	0.018947922
Slc25a15	solute carrier family 25 (mitochondrial carrier ornithine transporter), member 15	327 +/- 11	297 +/- 8	0.046958908
Slc25a19	solute carrier family 25 (mitochondrial deoxynucleotide carrier), member 19	608 +/- 28	533 +/- 12	0.03678008
Slc25a27	solute carrier family 25, member 27	104 +/- 8	78 +/- 5	0.015901693
Slc25a37	solute carrier family 25, member 37	348 +/- 20	286 +/- 15	0.029341658
Slc25a42	solute carrier family 25, member 42	704 +/- 24	564 +/- 18	0.000526637
Slc2a3	solute carrier family 2 (facilitated glucose transporter), member 3	5809 +/- 114	5428 +/- 121	0.037476717
Slc31a2	solute carrier family 31, member 2	167 +/- 10	141 +/- 5	0.037415413
Slc35a3	solute carrier family 35 (UDP-N-acetylglucosamine (UDP-GlcNAc) transporter)	134 +/- 3	117 +/- 6	0.045993462
Slc35a5	solute carrier family 35, member A5	546 +/- 43	439 +/- 24	0.050086263
Slc35b4	solute carrier family 35, member B4	576 +/- 10	488 +/- 18	0.001126422
Slc35f3	solute carrier family 35, member F3	865 +/- 18	745 +/- 26	0.002296072
Slc37a3	solute carrier family 37 (glycerol-3-phosphate transporter), member 3	995 +/- 27	915 +/- 22	0.038640238

Slc39a12	solute carrier family 39 (zinc transporter), member 12	221 +/- 16	178 +/- 11	0.043681679
Slc39a14	solute carrier family 39 (zinc transporter), member 14	771 +/- 19	706 +/- 13	0.017119384
Slc39a2	solute carrier family 39 (zinc transporter), member 2	99 +/- 3	83 +/- 6	0.03443807
Slc43a2	solute carrier family 43, member 2	37 +/- 3	28 +/- 2	0.026822264
Slc7a11	solute carrier family 7 (cationic amino acid transporter, y+ system), member 11	144 +/- 7	124 +/- 3	0.023832315
Slc7a2	solute carrier family 7 (cationic amino acid transporter, y+ system), member 2	79 +/- 5	63 +/- 4	0.022156945
Slc7a4	solute carrier family 7 (cationic amino acid transporter, y+ system), member 4	257 +/- 9	224 +/- 5	0.007149709
Slco3a1	solute carrier organic anion transporter family, member 3a1	435 +/- 11	402 +/- 11	0.053216945
Slk	STE20-like kinase (yeast)	795 +/- 16	743 +/- 15	0.034900002
Slu7	SLU7 splicing factor homolog (<i>S. cerevisiae</i>)	1342 +/- 36	1219 +/- 39	0.037715021
Smad5	MAD homolog 5 (<i>Drosophila</i>)	128 +/- 2	105 +/- 7	0.01329788
Smarca1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, s	747 +/- 9	691 +/- 12	0.002181221
Smc4	structural maintenance of chromosomes 4	66 +/- 4	52 +/- 3	0.020421456
Smcr7l	Smith-Magenis syndrome chromosome region, candidate 7-like (human)	499 +/- 27	396 +/- 22	0.011996947
Smox	spermine oxidase	760 +/- 16	685 +/- 27	0.032101399
Smpd1	sphingomyelin phosphodiesterase 1, acid lysosomal	173 +/- 7	151 +/- 6	0.041082237
Smpd4	sphingomyelin phosphodiesterase 4	554 +/- 22	480 +/- 17	0.01957321
Snap23	synaptosomal-associated protein 23	289 +/- 14	250 +/- 6	0.02611307
Snap29	synaptosomal-associated protein	135 +/- 3	124 +/- 3	0.035865024
Snopc3	small nuclear RNA activating complex, polypeptide 3	1381 +/- 16	1302 +/- 24	0.019952673
Snip1	Smad nuclear interacting protein 1	644 +/- 11	585 +/- 7	0.000963588
Snx1	sorting nexin 1	945 +/- 14	864 +/- 12	0.00065812
Snx13	sorting nexin 13	295 +/- 4	264 +/- 12	0.036984944
Snx15	sorting nexin 15	852 +/- 20	787 +/- 12	0.017695123
Snx16	sorting nexin 16	997 +/- 14	945 +/- 12	0.014870357
Snx25	sorting nexin 25	841 +/- 26	752 +/- 27	0.033910753
Snx27	sorting nexin family member 27	1102 +/- 28	972 +/- 22	0.002886906
Snx5	sorting nexin 5	123 +/- 3	100 +/- 4	0.000953382
Snx9	sorting nexin 9	253 +/- 7	214 +/- 8	0.002321964

Soat1	sterol O-acyltransferase 1	334 +/- 18	287 +/- 10	0.04422783
Socs4	suppressor of cytokine signaling 4	539 +/- 17	463 +/- 13	0.003469068
Sod2	superoxide dismutase 2, mitochondrial	1004 +/- 22	877 +/- 35	0.009124026
Sorcs1	VPS10 domain receptor protein SORCS 1	80 +/- 3	56 +/- 3	0.000293723
Sorcs3	sortilin-related VPS10 domain containing receptor 3	645 +/- 11	582 +/- 18	0.010148052
Sort1	sortilin 1	964 +/- 24	887 +/- 19	0.027354234
Sox6	SRY-box containing gene 6	342 +/- 9	298 +/- 8	0.002634365
Sp2	Sp2 transcription factor	314 +/- 8	289 +/- 8	0.043199303
Spag1	sperm associated antigen 1	302 +/- 6	266 +/- 9	0.006520269
Spag7	sperm associated antigen 7	808 +/- 14	761 +/- 10	0.018784795
Spast	spastin	1840 +/- 17	1738 +/- 24	0.005215245
Spata13	spermatogenesis associated 13	187 +/- 9	163 +/- 4	0.038761698
Spata6	spermatogenesis associated 6	122 +/- 10	98 +/- 5	0.051341389
Spg20	spastic paraplegia 20, spartin (Troyer syndrome) homolog (human)	582 +/- 20	526 +/- 14	0.039682637
Sphk2	sphingosine kinase 2	314 +/- 12	271 +/- 15	0.037977917
Spred1	sprouty protein with EVH-1 domain 1, related sequence	1395 +/- 18	1164 +/- 19	5.85766E-07
Spry4	sprouty homolog 4 (Drosophila)	53 +/- 5	32 +/- 4	0.005050483
Spsb1	splA/ryanodine receptor domain and SOCS box containing 1	758 +/- 25	687 +/- 11	0.027682168
Sptlc2	serine palmitoyltransferase, long chain base subunit 2	317 +/- 12	280 +/- 6	0.020141316
Sqle	squalene epoxidase	2154 +/- 42	1955 +/- 49	0.008592318
Srgap3	SLIT-ROBO Rho GTPase activating protein 3	123 +/- 3	105 +/- 5	0.008144188
Srpk2	serine/arginine-rich protein specific kinase 2	1778 +/- 36	1637 +/- 25	0.007537302
Srr	serine racemase	290 +/- 8	249 +/- 10	0.006794617
Ss18	synovial sarcoma translocation, Chromosome 18	400 +/- 11	353 +/- 11	0.010064889
Ssbp3	Single-stranded DNA binding protein 3	195 +/- 6	155 +/- 11	0.009059678
Ssr4	signal sequence receptor, delta	247 +/- 6	211 +/- 4	0.000494097
St13	suppression of tumorigenicity 13	1223 +/- 31	1120 +/- 36	0.047764114
St3gal2	ST3 beta-galactoside alpha-2,3-sialyltransferase 2	555 +/- 13	513 +/- 8	0.016932178
St3gal6	ST3 beta-galactoside alpha-2,3-sialyltransferase 6	285 +/- 19	222 +/- 20	0.04142594

St5	suppression of tumorigenicity 5	557 +/- 17	501 +/- 20	0.048071892
St6gal1	beta galactoside alpha 2,6 sialyltransferase 1	201 +/- 10	175 +/- 5	0.042230307
St6galnac4	ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosamin	448 +/- 10	415 +/- 12	0.053880084
St7	Suppression of tumorigenicity 7	598 +/- 14	516 +/- 26	0.01917527
Stard13	serologically defined colon cancer antigen 13	337 +/- 12	277 +/- 16	0.009525498
Stard5	StAR-related lipid transfer (START) domain containing 5	231 +/- 10	185 +/- 12	0.010578092
Stat1	signal transducer and activator of transcription 1	487 +/- 5	416 +/- 10	9.99084E-05
Stau1	staufen (RNA binding protein) homolog 1 (Drosophila)	424 +/- 13	368 +/- 17	0.02073222
Stc2	stanniocalcin 2	107 +/- 7	84 +/- 7	0.036121366
Stch	stress 70 protein chaperone, microsomal-associated, human homolog	571 +/- 19	505 +/- 7	0.010017714
Stip1	stress-induced phosphoprotein 1	1945 +/- 27	1778 +/- 42	0.005892764
Strap	Serine/threonine kinase receptor associated protein	223 +/- 7	195 +/- 8	0.02206367
Strn	striatin, calmodulin binding protein	135 +/- 8	110 +/- 4	0.015415969
Stt3a	STT3, subunit of the oligosaccharyltransferase complex, homolog A (S. cerevisiae)	831 +/- 31	710 +/- 44	0.044620277
Stt3b	STT3, subunit of the oligosaccharyltransferase complex, homolog B (S. cerevisiae)	4944 +/- 69	4547 +/- 50	0.000508584
Stx11	syntaxin 11	42 +/- 3	30 +/- 3	0.023813633
Stx4a	syntaxin 4A (placental)	659 +/- 8	612 +/- 11	0.004071641
Stxbp6	syntaxin binding protein 6 (amisyn)	512 +/- 30	388 +/- 30	0.011556909
Sucla2	succinate-Coenzyme A ligase, ADP-forming, beta subunit	4774 +/- 95	4521 +/- 57	0.043465093
Suds3	suppressor of defective silencing 3 homolog (S. cerevisiae)	1582 +/- 25	1487 +/- 27	0.021627459
Sugt1	SGT1, suppressor of G2 allele of SKP1 (S. cerevisiae)	1380 +/- 26	1286 +/- 10	0.008936589
Sumf2	sulfatase modifying factor 2	127 +/- 8	102 +/- 6	0.03122312
Surf4	surfeit gene 4	679 +/- 16	596 +/- 24	0.013042165
Suv420h1	suppressor of variegation 4-20 homolog 1 (Drosophila)	886 +/- 18	811 +/- 16	0.008015825
Svil	supervillin	280 +/- 10	234 +/- 6	0.002380421
Swap70	SWA-70 protein	132 +/- 4	111 +/- 6	0.009822516
Syde1	synapse defective 1, Rho GTPase, homolog 1 (C. elegans)	182 +/- 6	162 +/- 6	0.033734134
Syncrip	synaptotagmin binding, cytoplasmic RNA interacting protein	784 +/- 19	701 +/- 14	0.003217738
Synj2	synaptojanin 2	255 +/- 12	185 +/- 13	0.001544001

Synj2bp	synaptojanin 2 binding protein	686 +/- 13	600 +/- 13	0.00046028
Syt11	synaptotagmin XI	127 +/- 6	97 +/- 5	0.001341845
Taf11	TAF11 RNA polymerase II, TATA box binding protein (TBP)-associated factor	48 +/- 2	35 +/- 3	0.007154385
Taf2	TAF2 RNA polymerase II, TATA box binding protein (TBP)-associated factor	135 +/- 3	114 +/- 7	0.014985178
Taf4a	TAF4A RNA polymerase II, TATA box binding protein (TBP)-associated factor	308 +/- 4	269 +/- 9	0.002397965
Taf7	TAF7 RNA polymerase II, TATA box binding protein (TBP)-associated factor	119 +/- 4	104 +/- 3	0.015895051
Tank	TRAF family member-associated Nf-kappa B activator	573 +/- 21	474 +/- 29	0.015725788
Tardbp	TAR DNA binding protein	1647 +/- 29	1518 +/- 31	0.009600012
Tarsl1	threonyl-tRNA synthetase-like 1	273 +/- 11	235 +/- 6	0.01069731
Tbl1xr1	transducin (beta)-like 1X-linked receptor 1	215 +/- 9	176 +/- 5	0.002855139
Tbl2	transducin (beta)-like 2	330 +/- 7	309 +/- 6	0.0498442
Tceal7	transcription elongation factor A (SII)-like 7	71 +/- 2	51 +/- 4	0.001836665
Tcf20	transcription factor 20	157 +/- 6	128 +/- 8	0.009779325
Tchp	trichoplein, keratin filament binding	263 +/- 7	230 +/- 12	0.03454032
Tdg	thymine DNA glycosylase	717 +/- 9	682 +/- 14	0.050158964
Tex264	Testis expressed gene 264	177 +/- 2	127 +/- 8	0.000294278
Tfg	Trk-fused gene	170 +/- 9	133 +/- 7	0.006349155
Tgfb1	transforming growth factor, beta 1	173 +/- 8	144 +/- 9	0.028055
Tgfbr1	transforming growth factor, beta receptor I	965 +/- 31	792 +/- 27	0.000842276
Tgoln1	trans-golgi network protein	1273 +/- 45	1138 +/- 32	0.03000073
Thap1	THAP domain containing, apoptosis associated protein 1	564 +/- 21	495 +/- 6	0.012483143
Thap2	THAP domain containing, apoptosis associated protein 2	705 +/- 18	653 +/- 7	0.024527176
Thap4	THAP domain containing 4	694 +/- 13	651 +/- 10	0.019358017
Thrap1	thyroid hormone receptor associated protein 1	1332 +/- 28	1240 +/- 13	0.013862759
Thrap3	thyroid hormone receptor associated protein 3	505 +/- 17	460 +/- 11	0.05028521
Thtpa	Thiamine triphosphatase	181 +/- 2	157 +/- 7	0.009778848
Tia1	cytotoxic granule-associated RNA binding protein 1	178 +/- 8	154 +/- 7	0.041835138
Timm17b	translocase of inner mitochondrial membrane 17b	411 +/- 13	368 +/- 10	0.021269404
Timm22	translocase of inner mitochondrial membrane 22 homolog (yeast)	876 +/- 19	809 +/- 19	0.027474995

Timp4	tissue inhibitor of metalloproteinase 4	477 +/- 10	416 +/- 14	0.003926991
Tjp1	tight junction protein 1	2155 +/- 56	2006 +/- 24	0.034658441
Tloc1	translocation protein 1	1214 +/- 14	1068 +/- 22	0.000117754
Tlr2	toll-like receptor 2	93 +/- 5	69 +/- 4	0.00467105
Tlr3	toll-like receptor 3	118 +/- 5	88 +/- 8	0.007323287
Tm9sf1	transmembrane 9 superfamily member 1	762 +/- 13	703 +/- 19	0.026302183
Tm9sf2	transmembrane 9 superfamily member 2	3648 +/- 54	3408 +/- 69	0.016278587
Tm9sf3	transmembrane 9 superfamily member 3	2230 +/- 9	2114 +/- 25	0.002095992
Tmcc1	transmembrane and coiled coil domains 1	228 +/- 6	195 +/- 10	0.016986353
Tmco7	transmembrane and coiled-coil domains 7	107 +/- 6	87 +/- 3	0.012514113
Tmed10	transmembrane emp24-like trafficking protein 10 (yeast)	1267 +/- 52	1133 +/- 18	0.038823833
Tmed9	transmembrane emp24 protein transport domain containing 9	2665 +/- 39	2525 +/- 36	0.019066318
Tmem101	transmembrane protein 101	431 +/- 8	399 +/- 9	0.022005933
Tmem106b	transmembrane protein 106B	1170 +/- 26	1079 +/- 17	0.014415897
Tmem109	transmembrane protein 109	1362 +/- 33	1257 +/- 25	0.027049678
Tmem119	transmembrane protein 119	413 +/- 22	348 +/- 9	0.022354308
Tmem123	transmembrane protein 123	467 +/- 20	410 +/- 14	0.039495286
Tmem142a	transmembrane protein 142A	73 +/- 2	57 +/- 5	0.013217951
Tmem144	transmembrane protein 144	505 +/- 13	465 +/- 10	0.03196358
Tmem168	transmembrane protein 168	426 +/- 10	388 +/- 9	0.012692037
Tmem176a	transmembrane protein 176A	826 +/- 39	732 +/- 15	0.0512447
Tmem183a	transmembrane protein 183A	521 +/- 7	474 +/- 16	0.02543851
Tmem19	transmembrane protein 19	97 +/- 3	77 +/- 5	0.003462464
Tmem23	Transmembrane protein 23	35 +/- 5	21 +/- 3	0.031925479
Tmem33	transmembrane protein 33	1528 +/- 65	1220 +/- 78	0.009012569
Tmem46	transmembrane protein 46	48 +/- 4	37 +/- 4	0.046747176
Tmem55a	transmembrane protein 55A	2967 +/- 28	2796 +/- 18	0.000410835
Tmem64	transmembrane protein 64	779 +/- 24	683 +/- 20	0.008205703
Tmem67	transmembrane protein 67	66 +/- 5	48 +/- 5	0.02612234

Tmem9	transmembrane protein 9	782 +/- 32	699 +/- 10	0.039382057
Tmod3	tropomodulin 3	151 +/- 8	121 +/- 7	0.017201203
Tmtc4	transmembrane and tetratricopeptide repeat containing 4	1393 +/- 28	1303 +/- 29	0.043404273
Tnfaip81	tumor necrosis factor, alpha-induced protein 8-like 1	389 +/- 10	339 +/- 10	0.003011331
Tnfrsf25	tumor necrosis factor receptor superfamily, member 25	314 +/- 13	221 +/- 10	0.000104998
Tnpo2	transportin 2 (importin 3, karyopherin beta 2b)	483 +/- 9	434 +/- 10	0.002366298
Tnrc15	trinucleotide repeat containing 15	324 +/- 9	266 +/- 12	0.001911146
Tnrc6a	Trinucleotide repeat containing 6a	245 +/- 6	214 +/- 6	0.004875976
Tns1	tensin 1	425 +/- 9	353 +/- 8	0.000100419
Tns3	tensin 3	2378 +/- 41	2080 +/- 59	0.001367773
Tom1l2	target of myb1-like 2 (chicken)	102 +/- 5	87 +/- 3	0.029600265
Tomm20	translocase of outer mitochondrial membrane 20 homolog (yeast)	1793 +/- 42	1667 +/- 31	0.033487132
Top2a	topoisomerase (DNA) II alpha	32 +/- 1	22 +/- 4	0.039830605
Tpmt	thiopurine methyltransferase	417 +/- 30	334 +/- 21	0.04157847
Tpp1	tripeptidyl peptidase I	3109 +/- 47	2954 +/- 53	0.048186061
Tpp2	tripeptidyl peptidase II	523 +/- 12	457 +/- 18	0.009627218
Tra2a	transformer 2 alpha homolog (Drosophila)	105 +/- 9	69 +/- 5	0.004886133
Traf3ip1	TNF receptor-associated factor 3 interacting protein 1	417 +/- 5	386 +/- 12	0.032649187
Trfp	Trf (TATA binding protein-related factor)-proximal protein homolog (Drosophila)	1134 +/- 22	974 +/- 12	7.19943E-05
Trib2	tribbles homolog 2 (Drosophila)	1144 +/- 12	992 +/- 26	0.000338127
Trim2	tripartite motif protein 2	303 +/- 12	266 +/- 13	0.054162281
Trim30	tripartite motif protein 30	117 +/- 5	93 +/- 5	0.006759712
Trim33	tripartite motif protein 33	1455 +/- 18	1383 +/- 15	0.009648269
Trim37	tripartite motif protein 37	3866 +/- 82	3522 +/- 77	0.008643681
Trim59	Tripartite motif-containing 59	148 +/- 15	107 +/- 11	0.046591549
Trim9	tripartite motif protein 9	1339 +/- 31	1083 +/- 42	0.000327301
Trio	triple functional domain (PTPRF interacting)	1878 +/- 33	1694 +/- 46	0.006552638
Trip11	thyroid hormone receptor interactor 11	118 +/- 3	98 +/- 6	0.011922145
Trip12	thyroid hormone receptor interactor 12	273 +/- 11	228 +/- 16	0.040796367

Trip4	thyroid hormone receptor interactor 4	832 +/- 21	755 +/- 25	0.032709696
Trove2	TROVE domain family, member 2	441 +/- 27	360 +/- 12	0.026084851
Trp73	transformation related protein 73	92 +/- 7	67 +/- 7	0.020651405
Tsga10	testis specific 10	538 +/- 15	451 +/- 20	0.004180167
Ttbk2	tau tubulin kinase 2	143 +/- 8	116 +/- 8	0.030522443
Ttc14	tetratricopeptide repeat domain 14	684 +/- 19	586 +/- 37	0.039458835
Ttc32	tetratricopeptide repeat domain 32	155 +/- 8	126 +/- 4	0.008077729
Ttc9c	tetratricopeptide repeat domain 9C	292 +/- 3	262 +/- 9	0.011271623
Tubb2b	tubulin, beta 2b	1393 +/- 96	1098 +/- 73	0.028929032
Tulp3	tubby-like protein 3	648 +/- 24	476 +/- 12	0.00013728
Twf1	twinfilin, actin-binding protein, homolog 1 (Drosophila)	667 +/- 21	596 +/- 22	0.036742863
Twsg1	twisted gastrulation homolog 1 (Drosophila)	305 +/- 5	287 +/- 4	0.016576045
Txlna	taxilin alpha	308 +/- 9	272 +/- 6	0.00688012
Txlnb	taxilin beta	37 +/- 2	21 +/- 5	0.011361536
Txndc11	thioredoxin domain containing 11	87 +/- 4	75 +/- 4	0.041585127
Txn12	Thioredoxin-like 2	175 +/- 6	145 +/- 8	0.009579762
Txnrd1	thioredoxin reductase 1	102 +/- 4	83 +/- 4	0.003041688
Ube112	ubiquitin-activating enzyme E1-like 2	442 +/- 17	377 +/- 21	0.031863144
Ube2f	ubiquitin-conjugating enzyme E2F (putative)	1150 +/- 21	1090 +/- 13	0.033343111
Ube2j1	ubiquitin-conjugating enzyme E2, J1	1762 +/- 26	1623 +/- 41	0.014821187
Ube2m	ubiquitin-conjugating enzyme E2M (UBC12 homolog, yeast)	165 +/- 7	148 +/- 1	0.038969888
Ube2w	ubiquitin-conjugating enzyme E2W (putative)	255 +/- 4	222 +/- 9	0.007380185
Ube3c	Ubiquitin protein ligase E3C	174 +/- 10	146 +/- 8	0.049448624
Ubqln4	ubiquilin 4	809 +/- 38	703 +/- 18	0.030852868
Ubr1	Ubiquitin protein ligase E3 component n-recogin 1	163 +/- 10	128 +/- 5	0.009465283
Ubx2	UBX domain containing 2	928 +/- 33	848 +/- 12	0.046674835
Ubx7	UBX domain containing 7	330 +/- 9	293 +/- 12	0.022554438
Ubx8	UBX domain containing 8	816 +/- 32	706 +/- 23	0.015461244
Uck2	uridine-cytidine kinase 2	380 +/- 9	345 +/- 10	0.022673715

Ugcgl1	UDP-glucose ceramide glucosyltransferase-like 1	528 +/- 25	419 +/- 11	0.002949626
Ugp2	UDP-glucose pyrophosphorylase 2	2331 +/- 43	2180 +/- 44	0.028244165
Ugt8a	UDP galactosyltransferase 8A	602 +/- 26	489 +/- 28	0.010663625
Ulk2	Unc-51 like kinase 2 (C. elegans)	933 +/- 26	824 +/- 20	0.006183562
Unc13b	unc-13 homolog B (C. elegans)	753 +/- 19	650 +/- 31	0.015245814
Unc5c	unc-5 homolog C (C. elegans)	1113 +/- 36	1010 +/- 29	0.043772724
Usp12	ubiquitin specific peptidase 12	316 +/- 9	266 +/- 6	0.000494701
Usp15	ubiquitin specific peptidase 15	819 +/- 8	741 +/- 24	0.012661685
Usp25	Ubiquitin specific peptidase 25	72 +/- 3	58 +/- 2	0.003244739
Usp28	ubiquitin specific peptidase 28	359 +/- 11	314 +/- 13	0.023141449
Usp31	ubiquitin specific peptidase 31	321 +/- 11	261 +/- 7	0.000705801
Usp38	ubiquitin specific peptidase 38	147 +/- 7	113 +/- 4	0.001159173
Usp48	ubiquitin specific peptidase 48	945 +/- 15	887 +/- 16	0.019410638
Usp7	ubiquitin specific peptidase 7	260 +/- 8	213 +/- 12	0.007711685
Utp18	UTP18, small subunit (SSU) processome component, homolog (yeast)	472 +/- 13	424 +/- 14	0.022525255
Utx	ubiquitously transcribed tetratricopeptide repeat gene, X chromosome	133 +/- 5	115 +/- 4	0.01296456
Vamp1	vesicle-associated membrane protein 1	407 +/- 8	367 +/- 14	0.029164113
Vamp3	vesicle-associated membrane protein 3	682 +/- 11	622 +/- 14	0.005760601
Vamp4	vesicle-associated membrane protein 4	2920 +/- 34	2602 +/- 81	0.005152236
Vav3	vav 3 oncogene	213 +/- 14	165 +/- 16	0.034608405
Vcl	vinculin	191 +/- 9	155 +/- 6	0.006758106
Vhlh	von Hippel-Lindau syndrome homolog	539 +/- 8	503 +/- 13	0.039273711
Vps13a	vacuolar protein sorting 13A (yeast)	48 +/- 2	40 +/- 3	0.039582169
Vps13c	vacuolar protein sorting 13C (yeast)	1244 +/- 30	1097 +/- 21	0.001850723
Vps24	vacuolar protein sorting 24 (yeast)	873 +/- 25	785 +/- 9	0.008590435
Vti1a	vesicle transport through interaction with t-SNAREs homolog 1A (yeast)	605 +/- 18	519 +/- 24	0.014559481
Wasf3	WAS protein family, member 3	295 +/- 11	242 +/- 14	0.011207475
Wasl	Wiskott-Aldrich syndrome-like (human)	51 +/- 4	37 +/- 2	0.00447787
Wdr19	WD repeat domain 19	200 +/- 5	166 +/- 7	0.001175381

Wdr20a	WD repeat domain 20a	178 +/- 9	145 +/- 3	0.005645712
Wdr23	WD repeat domain 23	2053 +/- 28	1956 +/- 21	0.016136961
Wdr32	WD repeat domain 32	215 +/- 4	192 +/- 6	0.005833002
Wdr4	WD repeat domain 4	241 +/- 4	221 +/- 6	0.013804996
Wdr40a	WD repeat domain 40A	417 +/- 8	366 +/- 5	0.000176305
Wdr41	WD repeat domain 41	408 +/- 17	349 +/- 9	0.009914548
Wdr59	WD repeat domain 59	388 +/- 10	358 +/- 10	0.053806291
Wdr70	WD repeat domain 70	48 +/- 3	39 +/- 3	0.046070057
Wdr76	WD repeat domain 76	59 +/- 5	44 +/- 3	0.031120462
Wdr79	WD repeat domain 79	278 +/- 7	256 +/- 5	0.026426794
Whsc111	Wolf-Hirschhorn syndrome candidate 1-like 1 (human)	1260 +/- 26	1161 +/- 26	0.018136428
Wif1	Wnt inhibitory factor 1	30 +/- 3	20 +/- 2	0.020100723
Wnk1	WNK lysine deficient protein kinase 1	108 +/- 8	88 +/- 2	0.045689586
Wnt7a	wingless-related MMTV integration site 7A	230 +/- 5	209 +/- 3	0.006460399
Wrnip1	Werner helicase interacting protein 1	66 +/- 4	51 +/- 6	0.043604335
Xab1	XPA binding protein 1	71 +/- 4	56 +/- 4	0.024963869
Xbp1	X-box binding protein 1	1339 +/- 30	1157 +/- 25	0.000414667
Xkr8	X Kell blood group precursor related family member 8 homolog	67 +/- 1	57 +/- 3	0.007203446
Xlkd1	extra cellular link domain-containing 1	50 +/- 2	33 +/- 5	0.008693459
Xpo1	exportin 1, CRM1 homolog (yeast)	1546 +/- 23	1459 +/- 19	0.01323185
Xpo7	exportin 7	185 +/- 11	144 +/- 3	0.007694496
Xpot	exportin, tRNA (nuclear export receptor for tRNAs)	2183 +/- 8	1957 +/- 48	0.002086985
Xpr1	xenotropic and polytropic retrovirus receptor 1	265 +/- 10	227 +/- 8	0.01208741
Xrcc6bp1	XRCC6 binding protein 1	291 +/- 6	263 +/- 6	0.003740489
Yipf6	Yip1 domain family, member 6	835 +/- 24	763 +/- 16	0.027750977
Yod1	YOD1 OTU deubiquitinating enzyme 1 homologue (S. cerevisiae)	645 +/- 26	519 +/- 41	0.02243512
Ythdf3	YTH domain family 3	989 +/- 17	919 +/- 25	0.041145485
Zadh1	zinc binding alcohol dehydrogenase, domain containing 1	211 +/- 30	122 +/- 14	0.023181786
Zbed3	zinc finger, BED domain containing 3	125 +/- 6	103 +/- 5	0.010749163

Zbtb12	zinc finger and BTB domain containing 12	150 +/- 4	124 +/- 5	0.00187819
Zbtb16	zinc finger and BTB domain containing 16	226 +/- 7	190 +/- 7	0.00316969
Zbtb24	zinc finger and BTB domain containing 24	561 +/- 6	534 +/- 6	0.009464732
Zbtb41	zinc finger and BTB domain containing 41 homolog	1091 +/- 25	1011 +/- 19	0.0227779
Zc3h11a	zinc finger CCCH type containing 11A	467 +/- 18	384 +/- 21	0.01030383
Zc3h15	zinc finger CCCH-type containing 15	2313 +/- 50	2076 +/- 33	0.001937334
Zcchc8	zinc finger, CCHC domain containing 8	842 +/- 19	721 +/- 44	0.031499288
Zfa	zinc finger protein, autosomal	87 +/- 6	68 +/- 3	0.014825076
Zfp106	zinc finger protein 106	352 +/- 11	306 +/- 16	0.035831013
Zfp109	zinc finger protein 109	97 +/- 3	86 +/- 4	0.040507536
Zfp110	zinc finger protein 110	241 +/- 8	213 +/- 8	0.024715536
Zfp143	zinc finger protein 143	201 +/- 3	182 +/- 5	0.007726603
Zfp236	zinc finger protein 236	614 +/- 16	546 +/- 19	0.01861734
Zfp281	Zinc finger protein 281	385 +/- 20	336 +/- 7	0.047203387
Zfp292	zinc finger protein 292	669 +/- 17	604 +/- 20	0.025411218
Zfp294	zinc finger protein 294	112 +/- 3	95 +/- 6	0.031834918
Zfp295	zinc finger protein 295	401 +/- 20	305 +/- 25	0.010602633
Zfp319	zinc finger protein 319	100 +/- 6	78 +/- 3	0.005002959
Zfp422	zinc finger protein 422	1072 +/- 11	1022 +/- 14	0.015479235
Zfp422-rs1	zinc finger protein 422, related sequence 1	1149 +/- 26	1068 +/- 22	0.031845413
Zfp449	zinc finger protein 449	228 +/- 8	202 +/- 6	0.022808264
Zfp508	zinc finger protein 508	341 +/- 16	297 +/- 10	0.038901029
Zfp53	zinc finger protein 53	135 +/- 8	103 +/- 8	0.013408229
Zfp533	Zinc finger protein 533	67 +/- 3	53 +/- 4	0.011563395
Zfp592	zinc finger protein 592	354 +/- 8	316 +/- 12	0.026148211
Zfp597	zinc finger protein 597	81 +/- 3	70 +/- 2	0.00798995
Zfp612	zinc finger protein 612	395 +/- 17	334 +/- 17	0.024925941
Zfp697	zinc finger protein 697	809 +/- 17	738 +/- 11	0.003944082
Zfp708	zinc finger protein 708	51 +/- 3	43 +/- 3	0.051858985

Zfp709	zinc finger protein 709	69 +/- 6	48 +/- 5	0.01963781
Zfp712	zinc finger protein 712	77 +/- 3	59 +/- 6	0.032726138
Zfp75	zinc finger protein 75	84 +/- 6	63 +/- 5	0.013546651
Zfp768	zinc finger protein 768	164 +/- 6	141 +/- 4	0.011163851
Zfp84	zinc finger protein 84	382 +/- 15	335 +/- 12	0.029624842
Zmym1	zinc finger, MYM domain containing 1	1058 +/- 28	726 +/- 41	1.75546E-05
Zmynd11	Zinc finger, MYND domain containing 11	164 +/- 5	138 +/- 3	0.001445728
Zranb3	zinc finger, RAN-binding domain containing 3	37 +/- 4	23 +/- 3	0.021271983
Zxdc	ZXD family zinc finger C	209 +/- 8	189 +/- 5	0.048701979