Shao et al *2011. Proteome profiling of wild type and lumican-deficient mouse corneas*

Sipplementary Table 1: Complete list of proteins identified and quantified in wild type and lumican -deficient mouse corneas

		Experiment 1				Experiment 2			
Gene Symbol	**Description**	**Σ# PSMs**	**Σ# Peptides**	***Lum $^{+/-}$**	***Lum $^{-/-}$**	**Σ# PSMs**	**Σ# Peptides**	***Lum $^{+/-}$**	***Lum $^{-/-}$**
2-Sep	septin-2 b	39	5	0.96	0.89	34	4	0.97	0.95
7-Sep	septin-7	46	6	0.89	0.97	27	4	0.91	1.02
8-Sep	septin-8	12	2	0.85	0.93	ND	ND	ND	ND
9-Sep	Septin-9 isoform b	4	2	0.91	0.95	1	1	0.83	0.87
10-Sep	septin-10 isoform 2	17	4	0.95	1.00	ND	ND	ND	ND
15-Sep	15 kDa selenoprotein	1	1	0.94	1.03	ND	ND	ND	ND
0610009B22Rik	Hypothetical protein LOC66050	2	1	0.89	0.97	ND	ND	ND	ND
1110004F10Rik	small acidic protein	5	2	1.79	1.22	ND	ND	ND	ND
1190003J15Rik	5-Hydroxyisourate hydrolase	23	3	1.47	1.63	15	3	1.56	1.69
1700009N14Rik	Hypothetical protein LOC75471	19	4	2.72	1.82	12	1	12.11	10.02
1700057K13Rik	Hypothetical protein LOC73435	1	1	0.34	0.34	ND	ND	ND	ND
1810014F10Rik	Protein fucU homolog	2	1	0.86	0.89	ND	ND	ND	ND
1810020O05Rik	PREDICTED: similar to hCG20001	1	1	ND	ND	ND	ND	ND	ND
1810046J19Rik	Hypothetical protein LOC103742	2	1	1.02	1.08	ND	ND	ND	ND
1810074P20Rik	hypothetical protein LOC67490	3	2	1.36	5.55	ND	ND	ND	ND
2010107G23Rik	hypothetical protein LOC69894	1	1	0.97	0.95	ND	ND	ND	ND
2210016F16Rik	hypothetical protein LOC70153	2	1	1.32	1.27	ND	ND	ND	ND
2310003F16Rik	huntingtin-interacting protein K	1	1	0.66	0.38	ND	ND	ND	ND
2310007B03Rik	hypothetical protein LOC71874	1	1	0.91	0.81	3	1	0.86	0.91
2310043J07Rik	uroplakin-3-like protein	14	2	0.76	0.93	8	1	0.76	1.04
2510003E04Rik	KIF1-binding protein	1	1	ND	ND	2	1	0.00	0.00
2610018G03Rik	serine/threonine-protein kinase MST4	4	1	0.68	0.91	3	3	0.81	0.79
2610029G23Rik	Hypothetical protein LOC67683	1	1	ND	ND	1	1	0.00	1.09
2610301G19Rik	p30 DBC protein	6	1	1.04	1.05	1	1	0.86	0.69
2700060E02Rik	Hypothetical protein LOC68045	7	3	0.58	0.56	4	2	0.82	0.71
2700078K21Rik	mps one binder kinase activator-like 2	1	1	0.89	0.92	ND	ND	ND	ND
2900010M23Rik	Hypothetical protein LOC67267	2	1	0.91	0.88	ND	ND	ND	ND
2900073G15Rik	myosin light chain, regulatory B-like	129	7	0.95	1.09	ND	ND	ND	ND
3110003A17Rik	Hypothetical protein LOC73112	2	1	0.91	0.98	ND	ND	ND	ND
4732456N10Rik	hypothetical protein LOC239673	234	7	ND	ND	101	6	ND	ND

4930583H14Rik	hypoxia up-regulated mitochondrial movement regulator	1	1	0.83	0.89	ND	ND	ND	ND
4931406C07Rik	ester hydrolase C11orf54 homolog	4	2	1.07	1.63	ND	ND	ND	ND
5430437P03Rik	BRCA1-A complex subunit MERIT40	1	1	0.80	0.04	ND	ND	ND	ND
6330408A02Rik	hypothetical protein LOC321008	10	1	0.95	0.90	9	1	0.89	0.88
6430527G18Rik	enhanced at puberty protein 1	2	1	0.42	0.42	2	1	1.71	1.76
9030025P20Rik	hypothetical protein LOC100041574	1	1	0.77	3.86	ND	ND	ND	ND
9930032O22Rik	serine protease Desc4	2	1	0.67	0.55	3	1	0.60	0.69
A230050P20Rik	hypothetical protein LOC319278	1	1	ND	ND	ND	ND	ND	ND
A2m	Alpha-2-macroglobulin-P	1812	36	1.25	0.96	1751	32	1.21	0.97
AA986860	Specifically androgen-regulated gene protein	9	5	0.97	0.89	6	1	0.96	0.88
Aacs	acetoacetyl-CoA synthetase	17	6	1.20	1.10	8	2	1.18	1.24
Aak1	AP2 associated kinase 1 isoform 2	1	1	0.53	0.70	ND	ND	ND	ND
Aars	alanyl-tRNA synthetase, cytoplasmic	8	3	1.04	1.12	5	2	1.15	1.26
Abat	4-aminobutyrate aminotransferase, mitochondrial isoform 2	1	1	1.24	1.03	ND	ND	ND	ND
Abcd3	ATP-binding cassette sub-family D member 3	2	1	1.30	1.26	1	1	1.11	13.08
Abce1	ATP-binding cassette sub-family E member 1	5	3	1.04	0.98	6	2	1.02	1.01
Abcf1	ATP-binding cassette sub-family F member 1	1	1	0.13	0.19	ND	ND	ND	ND
Abhd12	Monoacylglycerol lipase ABHD12	10	3	0.80	0.90	7	3	0.68	0.95
Abhd14b	abhydrolase domain-containing protein 14B	13	4	0.92	1.19	5	2	1.25	1.24
Abi1	Abl interactor 1 isoform 5	1	1	1.11	1.23	2	1	0.93	1.17
Ablim1	Actin-binding LIM protein 1 isoform 3	10	2	0.95	0.94	3	1	0.90	0.99
Acaa1a	3-ketoacyl-CoA thiolase A, peroxisomal	23	5	1.18	1.13	10	3	1.11	1.21
Acaa2	3-ketoacyl-CoA thiolase, mitochondrial	39	6	0.91	0.94	36	6	0.92	0.83
Acaca	Acetyl-CoA carboxylase 1	3	1	1.36	1.25	ND	ND	ND	ND
Acad9	Acyl-CoA dehydrogenase family member 9, mitochondrial	2	1	0.83	1.00	6	1	0.71	0.93
Acadl	long-chain specific acyl-CoA dehydrogenase, mitochondrial	18	2	1.01	0.99	12	2	1.02	0.97
Acadm	medium-chain specific acyl-CoA dehydrogenase, mitochondri	11	2	0.82	0.82	15	4	0.97	0.90
Acads	short-chain specific acyl-CoA dehydrogenase, mitochondrial	1	1	1.48	1.70	ND	ND	ND	ND
Acadvl	very long-chain specific acyl-CoA dehydrogenase, mitochondr	16	4	1.01	0.97	7	4	1.13	1.06
Acap2	arf-GAP with coiled-coil, ANK repeat and PH domain-containi	6	1	1.09	1.25	8	2	1.06	1.29
Acat1	acetyl-CoA acetyltransferase, mitochondrial	15	5	1.01	0.94	19	4	0.97	1.01
Acat3	Acetyl-Coenzyme A acetyltransferase 3	3	1	1.72	0.88	4	2	1.26	0.86
Acbd3	golgi resident protein GCP60	2	1	2.14	1.24	ND	ND	ND	ND
Acin1	apoptotic chromatin condensation inducer 1 isoform 4	5	3	1.18	0.66	2	1	1.18	1.33

Acly	ATP-citrate synthase	118	16	0.87	0.98	102	14	0.88	0.95
Aco1	Cytoplasmic aconitate hydratase	8	4	1.08	1.17	7	4	1.39	1.53
Aco2	aconitate hydratase, mitochondrial	37	5	0.87	0.92	39	6	0.92	0.97
Acot9	acyl-coenzyme A thioesterase 9, mitochondrial	1	1	5.19	4.19	ND	ND	ND	ND
Acox3	peroxisomal acyl-coenzyme A oxidase 3	1	1	ND	ND	ND	ND	ND	ND
Acp5	tartrate-resistant acid phosphatase type 5	1	1	1.07	1.02	ND	ND	ND	ND
Acsf2	acyl-CoA synthetase family member 2, mitochondrial	6	1	1.31	1.01	6	1	1.03	1.08
Acsf3	Acyl-CoA synthetase family member 3, mitochondrial	3	1	1.00	0.95	ND	ND	ND	ND
Acsl1	long-chain-fatty-acid--CoA ligase 1	30	8	0.89	0.97	33	6	1.06	1.00
Acsm1	Acyl-coenzyme A synthetase ACSM1, mitochondrial	4	2	15.76	7.16	1	1	1.07	1.13
Actb	actin, cytoplasmic 1	959	13	0.96	0.97	824	11	0.95	0.98
Actl6a	actin-like protein 6A	1	1	0.91	1.01	3	1	0.93	0.98
Actn1	alpha-actinin-1	240	12	0.94	0.90	262	9	1.09	0.89
Actn4	Alpha-actinin-4	581	22	0.93	0.95	541	20	0.91	0.95
Actr1a	alpha-centractin	33	6	0.83	0.92	28	4	0.98	0.94
Actr1b	beta-centractin	15	3	0.83	1.03	ND	ND	ND	ND
Actr2	actin-related protein 2	99	8	1.06	1.15	73	5	1.00	1.06
Actr3	actin-related protein 3	63	11	1.11	1.32	49	8	1.01	1.12
Actr3b	actin-related protein 3B	9	3	0.79	1.03	ND	ND	ND	ND
Actr8	actin-related protein 8	1	1	ND	55.59	ND	ND	ND	ND
Add1	alpha-adducin isoform 2	3	2	0.98	0.75	3	2	1.10	1.11
Add3	gamma-adducin isoform b	6	4	0.89	1.13	5	3	0.83	0.96
Adh1	alcohol dehydrogenase 1	81	7	5.00	5.20	63	5	6.01	6.26
Adh5	alcohol dehydrogenase class-3	10	3	1.63	1.41	3	2	1.38	1.18
Adh7	alcohol dehydrogenase class 4 mu/sigma chain	347	9	1.09	1.28	304	9	1.18	1.21
Adsl	adenylosuccinate lyase	4	1	1.04	0.89	2	1	0.96	0.84
Adss	adenylosuccinate synthetase isozyme 2	54	7	1.19	1.15	41	6	1.13	1.18
Aebp1	Adipocyte enhancer-binding protein 1	260	12	1.33	3.50	233	10	1.36	3.23
Aga	n(4)-(beta-N-acetylglucosaminyl)-L-asparaginase	2	1	0.96	0.88	2	1	0.89	0.94
Agfg1	arf-GAP domain and FG repeats-containing protein 1	2	1	0.41	1.61	ND	ND	ND	ND
Agfg2	arf-GAP domain and FG repeats-containing protein 2 isoform	8	2	0.82	0.38	5	1	0.30	4.12
Agpat3	1-acyl-sn-glycerol-3-phosphate acyltransferase gamma	2	1	1.13	1.16	ND	ND	ND	ND
Agpat9	glycerol-3-phosphate acyltransferase 3	1	1	ND	ND	ND	ND	ND	ND
Agrn	agrin	6	2	1.53	1.13	5	2	1.12	0.92

Ahcy	adenosylhomocysteinase	8	3	0.97	1.07	ND	ND	ND	ND
Ahnak	AHNAK nucleoprotein isoform 1	866	84	0.92	0.91	767	71	0.91	0.93
Ahsa1	activator of 90 kDa heat shock protein ATPase homolog 1	17	2	0.91	1.03	9	1	0.89	1.04
Ahsg	alpha-2-HS-glycoprotein	7	1	0.88	0.53	10	1	0.93	0.63
AI314180	expressed sequence AI314180	2	1	1.02	0.88	5	1	0.77	0.99
AI661453	Hypothetical protein LOC224833	32	9	0.95	0.99	34	10	0.98	1.11
Aifm1	apoptosis-inducing factor 1, mitochondrial	3	2	1.34	1.29	ND	ND	ND	ND
Aim1	Absent in melanoma 1	4	2	1.70	1.18	9	4	1.58	1.32
Aim1l	absent in melanoma 1-like	4	2	1.57	1.22	ND	ND	ND	ND
Aimp1	Aminoacyl tRNA synthetase complex-interacting multifunction	16	2	0.95	1.02	12	2	0.96	1.03
Aimp2	aminoacyl tRNA synthetase complex-interacting multifunction	6	3	0.94	0.89	ND	ND	ND	ND
Aip	AH receptor-interacting protein	2	1	1.17	1.00	ND	ND	ND	ND
Ak1	Adenylate kinase isoenzyme 1	8	2	1.17	1.08	5	1	0.95	1.11
Ak3	GTP:AMP phosphotransferase mitochondrial	12	2	0.83	0.86	15	2	0.87	0.86
Akap8	A-kinase anchor protein 8	3	1	1.22	0.87	ND	ND	ND	ND
Akr1b3	Aldose reductase	65	4	0.89	0.96	47	5	0.84	0.98
Akr1b7	Aldose reductase-related protein 1	16	4	0.95	1.07	6	3	0.88	0.94
Akr1c13	aldo-keto reductase family 1 member C13	2	1	0.60	1.04	ND	ND	ND	ND
Akr7a5	aflatoxin B1 aldehyde reductase member 2	3	3	1.07	1.26	ND	ND	ND	ND
Akt3	RAC-gamma serine/threonine-protein kinase	1	1	ND	ND	1	1	ND	ND
Alad	delta-aminolevulinic acid dehydratase	25	5	0.96	1.13	17	5	1.13	1.08
Alb	Albumin	630	18	0.85	0.46	639	16	0.82	0.48
Alcam	CD166 antigen	23	6	0.91	0.86	21	4	1.01	0.85
Aldh1a1	retinal dehydrogenase 1	100	9	0.94	0.92	102	8	0.91	0.92
Aldh1a3	aldehyde dehydrogenase family 1 member A3	2	1	1.26	1.12	3	1	1.25	1.10
Aldh2	aldehyde dehydrogenase, mitochondrial	122	13	0.94	0.96	116	9	0.96	0.91
Aldh3a1	Aldehyde dehydrogenase, dimeric NADP-preferring	864	13	0.89	1.04	679	11	0.87	1.05
Aldh3b1	aldehyde dehydrogenase family 3 member B1	65	3	ND	ND	16	4	0.93	1.04
Aldh3b2	PREDICTED: similar to Aldehyde dehydrogenase 3 family, m	64	6	1.02	1.08	42	7	1.00	1.09
Aldh4a1	delta-1-pyrroline-5-carboxylate dehydrogenase, mitochondrial	2	1	0.77	0.80	ND	ND	ND	ND
Aldh6a1	methylmalonate-semialdehyde dehydrogenase [acylating], mi	16	6	0.87	0.89	14	5	1.05	0.93
Aldh7a1	alpha-aminoadipic semialdehyde dehydrogenase isoform b	14	2	1.37	1.61	6	2	1.31	1.56
Aldh9a1	4-Trimethylaminobutyraldehyde dehydrogenase	1	1	1.78	1.09	ND	ND	ND	ND
Aldoa	fructose-bisphosphate aldolase A	136	6	1.04	0.86	125	5	1.00	0.83

Aldoc	fructose-bisphosphate aldolase C	34	6	1.07	1.10	31	3	0.74	0.99
Angptl7	angiopoietin-related protein 7	111	5	1.46	0.92	108	4	1.41	0.87
Ank3	Ankyrin 3, epithelial isoform i	2	1	1.03	0.95	ND	ND	ND	ND
Ankfy1	ankyrin repeat and FYVE domain-containing protein 1	1	1	0.89	1.03	ND	ND	ND	ND
Ankrd57	ankyrin repeat domain-containing protein 57	3	2	0.90	0.97	3	1	0.81	1.01
Anp32a	acidic leucine-rich nuclear phosphoprotein 32 family member	69	6	1.04	1.04	55	3	1.09	1.05
Anp32b	acidic leucine-rich nuclear phosphoprotein 32 family member	12	3	1.37	1.29	13	3	1.23	1.23
Anp32e	acidic leucine-rich nuclear phosphoprotein 32 family member	2	2	1.58	1.89	ND	ND	ND	ND
Anpep	aminopeptidase N	24	7	1.05	1.03	10	5	0.99	0.95
Antxr1	anthrax toxin receptor 1	1	1	1.17	2.00	ND	ND	ND	ND
Anxa1	Annexin A1	417	11	1.07	0.97	371	11	1.03	0.96
Anxa11	Annexin A11	71	9	1.01	1.04	53	9	0.99	1.05
Anxa2	annexin A2	555	13	0.91	0.90	444	12	0.92	0.93
Anxa3	Annexin A3	28	6	0.93	0.77	38	7	0.91	0.94
Anxa4	Annexin A4	42	5	0.90	0.79	25	3	0.96	0.97
Anxa5	annexin A5	214	13	0.92	0.90	215	9	0.91	0.87
Anxa6	Annexin A6 isoform b	73	12	0.99	0.87	66	9	0.99	0.78
Anxa7	Annexin A7	63	8	1.09	0.95	43	5	1.13	1.04
Anxa8	annexin A8	148	11	1.06	0.98	148	10	0.97	0.96
Anxa9	Annexin A9	10	3	0.83	0.87	4	2	0.99	0.91
Ap1b1	AP-1 complex subunit beta-1	37	6	0.97	0.89	ND	ND	ND	ND
Ap1g1	AP-1 complex subunit gamma-1	2	1	0.87	0.94	3	1	1.54	1.51
Ap1m2	AP-1 complex subunit mu-2 isoform 2	2	1	ND	ND	5	3	0.86	1.03
Ap1s1	AP-1 complex subunit sigma-1A	2	1	0.60	1.04	7	1	1.05	1.21
Ap2a1	AP-2 complex subunit alpha-1 isoform b	17	4	0.99	1.03	12	3	1.19	0.94
Ap2a2	AP-2 complex subunit alpha-2	16	5	1.20	1.21	ND	ND	ND	ND
Ap2b1	AP-2 complex subunit beta isoform b	20	3	1.08	0.95	ND	ND	ND	ND
Ap2m1	AP-2 complex subunit mu	3	2	1.06	1.19	7	3	1.07	1.07
Ap3b1	AP-3 complex subunit beta-1	2	2	0.83	0.88	ND	ND	ND	ND
Ap3d1	AP-3 complex subunit delta-1	2	1	0.44	1.22	2	1	0.95	0.78
Apeh	acylamino-acid-releasing enzyme	6	2	2.63	1.00	7	3	1.00	0.93
Apex1	DNA-(apurinic or apyrimidinic site) lyase	12	2	0.87	1.03	6	3	0.98	1.65
Apip	APAF1-interacting protein	1	1	1.14	1.38	2	1	0.94	0.91
Apoa1	Apolipoprotein A-I	27	3	1.28	0.70	23	3	1.33	0.70

Apoa1bp	apolipoprotein A-I-binding protein	26	3	1.03	1.28	20	3	1.30	1.23
Apoa4	Apolipoprotein A-IV	5	2	1.30	1.09	1	1	0.88	0.80
Apod	apolipoprotein D	7	2	1.22	0.59	1	1	1.05	0.64
Apoe	Apolipoprotein E	19	2	1.21	1.01	16	2	1.32	1.17
Apoh	Beta-2-glycoprotein 1	9	3	1.44	1.02	5	2	1.26	0.90
Aprt	Adenine phosphoribosyltransferase	6	1	1.12	1.07	7	2	1.15	1.13
Aqp1	aquaporin-1	97	2	1.14	1.13	79	2	1.10	1.11
Aqp3	Aquaporin-3	4	1	0.71	0.65	2	1	0.78	0.77
Aqp5	aquaporin-5	127	3	1.14	1.19	67	2	1.14	1.18
Arcn1	Coatomer subunit delta	11	6	0.84	0.88	5	3	0.72	0.80
Arf1	ADP-ribosylation factor 1	135	6	1.04	1.01	67	6	1.06	0.97
Arf4	ADP-ribosylation factor 4	57	5	1.09	1.11	ND	ND	ND	ND
Arf5	ADP-ribosylation factor 5	100	6	1.10	1.09	58	6	1.15	1.09
Arf6	ADP-ribosylation factor 6	4	2	0.95	0.57	8	2	1.18	1.54
Arfip1	ADP-ribosylation factor interacting protein 1	2	1	0.76	5.05	5	3	1.05	1.19
Arg1	arginase-1	3	1	1.50	1.37	ND	ND	ND	ND
Arhgap1	rho GTPase-activating protein 1 isoform 2	27	3	1.04	1.08	28	3	1.03	1.01
Arhgap27	rho GTPase-activating protein 27 isoform 1	1	1	1.17	1.16	ND	ND	ND	ND
Arhgdia	rho GDP-dissociation inhibitor 1	55	3	0.95	0.97	54	3	0.96	1.09
Arhgdib	rho GDP-dissociation inhibitor 2	6	2	0.64	0.87	7	1	1.24	1.17
Arhgef1	rho guanine nucleotide exchange factor 1 isoform d	1	1	0.80	2.08	ND	ND	ND	ND
Arih1	Protein ariadne-1 homolog	3	1	0.93	0.88	ND	ND	ND	ND
Arl1	ADP-ribosylation factor-like protein 1	2	2	1.05	1.06	3	2	1.18	1.28
Arl2	ADP-ribosylation factor-like protein 2	2	1	1.15	1.29	ND	ND	ND	ND
Arl3	ADP-ribosylation factor-like 3	1	1	1.57	1.17	1	1	1.12	1.03
Arl6ip5	PRA1 family protein 3	3	1	1.30	1.21	8	2	1.13	1.26
Arl8b	ADP-ribosylation factor-like protein 8B	6	3	1.07	1.06	3	2	0.98	1.02
Arpc1a	actin-related protein 2/3 complex subunit 1A	1	1	0.89	0.91	ND	ND	ND	ND
Arpc2	Actin-related protein 2/3 complex subunit 2	16	3	0.81	0.91	3	2	1.57	0.85
Arpc3	actin-related protein 2/3 complex subunit 3	33	4	1.04	1.02	12	3	0.99	1.04
Arpc4	Actin-related protein 2/3 complex subunit 4 isoform 1	67	4	1.04	1.11	46	3	1.01	1.10
Arpc5	actin-related protein 2/3 complex subunit 5	13	2	1.00	0.96	17	2	1.01	0.99
Arpc5l	actin-related protein 2/3 complex subunit 5-like protein	10	2	0.99	1.02	8	2	1.03	1.10
Arvcf	armadillo repeat protein deleted in velo-cardio-facial syndrom	1	1	1.42	1.09	ND	ND	ND	ND

As3mt	Arsenite methyltransferase	1	1	ND	ND	ND	ND	ND	ND
Asap2	Arf-GAP with SH3 domain, ANK repeat and PH domain-conta	1	1	1.53	2.32	ND	ND	ND	ND
Asl	argininosuccinate lyase	9	2	1.13	1.44	10	2	1.24	1.28
Asna1	ATPase Asna1	2	1	0.88	0.88	1	1	0.86	0.85
Asph	Aspartyl/asparaginyl beta-hydroxylase isoform 1	52	8	0.96	0.96	53	8	0.91	0.98
Asprv1	Retroviral-like aspartic protease 1	58	3	0.95	0.74	57	3	0.90	0.68
Ass1	argininosuccinate synthase	30	3	1.18	1.04	7	2	1.21	0.91
Atg3	Autophagy-related protein 3	2	1	1.20	1.32	3	1	0.96	1.10
Atg5	Autophagy protein 5	1	1	0.83	0.84	ND	ND	ND	ND
Atl2	Atlastin-2 isoform 2	2	1	1.07	1.21	ND	ND	ND	ND
Atl3	atlastin-3 isoform 1	1	1	ND	1.76	ND	ND	ND	ND
Atp1a1	sodium/potassium-transporting ATPase subunit alpha-1	228	20	0.98	0.92	166	15	0.97	0.95
Atp1a2	sodium/potassium-transporting ATPase subunit alpha-2	82	7	0.97	0.97	ND	ND	ND	ND
Atp1b1	sodium/potassium-transporting ATPase subunit beta-1	7	3	0.90	1.06	1	1	1.13	1.08
Atp1b3	sodium/potassium-transporting ATPase subunit beta-3	28	3	0.82	0.85	25	1	0.82	0.87
Atp2a2	ATPase, Ca++ transporting, slow twitch 2 isoform b	14	6	1.08	1.02	16	4	1.01	1.11
Atp2b1	plasma membrane calcium ATPase 1	8	4	1.00	1.01	5	2	0.91	0.86
Atp5a1	ATP synthase subunit alpha, mitochondrial	211	12	0.88	0.90	181	12	0.87	0.91
Atp5b	ATP synthase subunit beta, mitochondrial	416	12	0.88	0.90	364	12	0.86	0.89
Atp5c1	ATP synthase subunit gamma, mitochondrial isoform b	5	2	0.78	0.96	ND	ND	ND	ND
Atp5d	ATP synthase subunit delta, mitochondrial	15	1	1.07	1.07	21	1	1.06	1.04
Atp5f1	ATP synthase subunit b, mitochondrial	3	1	0.76	0.58	ND	ND	ND	ND
Atp5j2	ATP synthase subunit f, mitochondrial	10	2	1.30	1.01	8	2	1.23	0.92
Atp5k	ATP synthase subunit e, mitochondrial	2	1	1.37	1.03			ND	ND
Atp6v1a	V-type proton ATPase catalytic subunit A	37	5	1.02	1.04	43	7	0.96	0.98
Atp6v1b2	V-type proton ATPase subunit B, brain isoform	25	6	0.89	0.88	13	4	0.92	0.97
Atp6v1d	V-type proton ATPase subunit D	1	1	1.09	1.03	ND	ND	ND	ND
Atp6v1e1	V-type proton ATPase subunit E 1	9	1	0.78	0.70	15	2	0.85	0.76
Atp6v1f	V-type proton ATPase subunit F	3	1	1.33	1.41	6	1	1.16	1.19
Atp6v1h	V-type proton ATPase subunit H	9	3	1.17	1.40	3	1	1.03	1.28
ATP8	ATP synthase F0 subunit 8 [Mus musculus musculus]	1	1	1.16	1.07	ND	ND	ND	ND
Atp8a1	probable phospholipid-transporting ATPase IA isoform b	3	1	1.40	1.53	1	1	1.08	1.21
B230120H23Rik	mitogen-activated protein kinase kinase kinase MLT isoform 3	1	1	0.90	0.86	ND	ND	ND	ND
B230208H17Rik	Putative GTP-binding protein Parf	5	1	ND	ND	3	1	18.34	0.85

B4galnt2	beta-1,4 N-acetylgalactosaminyltransferase 2	2	1	ND	ND	3	1	0.97	0.97
Bag1	BAG family molecular chaperone regulator 1 isoform 1S	1	1	0.81	1.19	2	1	0.95	1.05
Bag2	BAG family molecular chaperone regulator 2	3	1	0.85	1.03	3	1	0.84	0.96
Bag3	BAG family molecular chaperone regulator 3	8	2	0.89	0.93	5	2	1.07	0.97
Baiap2	brain-specific angiogenesis inhibitor 1-associated protein 2 iso	21	2	0.95	0.80	ND	ND	ND	ND
Baiap2	brain-specific angiogenesis inhibitor 1-associated protein 2 iso	10	1	1.00	0.83	ND	ND	ND	ND
Baiap2l1	brain-specific angiogenesis inhibitor 1-associated protein 2-lik	2	1	0.88	1.10	ND	ND	ND	ND
Baiap2l2	brain-specific angiogenesis inhibitor 1-associated protein 2-lik	3	1	5.59	1.92	1	1	9.16	3.76
Banf1	barrier-to-autointegration factor	7	2	4.61	4.01	9	1	8.95	7.67
Bat1a	spliceosome RNA helicase Bat1	26	4	0.84	0.84	25	6	0.89	0.93
Bat3	large proline-rich protein BAT3	1	1	1.11	0.93	2	1	0.96	0.94
Bax	apoptosis regulator BAX	1	1	2.25	1.78	ND	ND	ND	ND
BC016423	Peripherial benzodiazepine receptor associated protein	8	1	2.35	15.75	9	1	2.21	15.02
BC030476	hypothetical protein LOC239368	8	4	1.02	0.97	11	4	1.00	1.04
BC048355	Deoxyribonucleoside 5'-monophosphate N-glycosidase	3	1	11.96	1.06	ND	ND	ND	ND
BC117090	Stefin A1-like protein	48	2	0.79	0.91	27	1	0.85	0.95
Bcam	Basal cell adhesion molecule	6	1	0.97	0.88	ND	ND	ND	ND
Bcl2l13	bcl-2-like protein 13	21	6	0.85	0.88	19	3	0.89	0.92
Bdh1	D-beta-hydroxybutyrate dehydrogenase, mitochondrial	3	1	1.29	0.76	ND	ND	ND	ND
Bgn	biglycan	623	12	0.98	0.70	636	8	1.03	0.74
Blmh	bleomycin hydrolase	41	4	1.00	1.01	19	4	1.08	1.07
Blvrb	flavin reductase	1	1	1.03	0.70	1	1	1.22	0.64
Bpnt1	3'(2'),5'-bisphosphate nucleotidase 1	3	2	0.17	0.30	5	2	0.98	1.23
Brp44	brain protein 44	4	2	1.33	1.35	3	1	1.19	1.32
Bsg	Basigin isoform 2	2	1	0.97	1.13	ND	ND	ND	ND
Bub3	mitotic checkpoint protein BUB3	1	1	1.00	1.05	ND	ND	ND	ND
Bzw1	Basic leucine zipper and W2 domain-containing protein 1	7	2	0.88	0.98	ND	ND	ND	ND
C1qb	complement C1q subcomponent subunit B	2	1	1.18	0.90	ND	ND	ND	ND
C1qbp	Complement component 1 Q subcomponent-binding protein,	3	2	0.75	0.71	4	2	1.24	0.79
C1qtnf7	complement C1q tumor necrosis factor-related protein 7 isofo	2	1	1.68	2.13	ND	ND	ND	ND
C1s	Complement C1s-A subcomponent	2	1	0.20	0.24	ND	ND	ND	ND
C3	Complement C3	122	16	0.96	0.63	107	16	1.03	0.64
C77080	hypothetical protein LOC97130	1	1	1.26	1.68	ND	ND	ND	ND
C8a	complement component C8 alpha chain	3	2	1.65	1.90	1	1	1.65	0.86

C8b	complement component C8 beta chain	1	1	1.23	1.04	1	1	1.92	1.47
C8g	complement component C8 gamma chain	3	1	1.56	1.01	4	1	1.45	0.93
Cab39l	calcium-binding protein 39-like	2	1	0.76	0.98	1	1	0.81	1.08
Cables1	CDK5 and ABL1 enzyme substrate 1 isoform 1	7	1	0.96	0.81	6	1	ND	ND
Cadm1	cell adhesion molecule 1 isoform d	1	1	ND	ND	ND	ND	ND	ND
Cald1	caldesmon 1	1	1	0.99	0.92	ND	ND	ND	ND
Calm1	calmodulin	53	3	0.98	0.68	60	4	0.90	0.75
Calml3	Calmodulin-like protein 3	90	6	0.87	0.73	65	4	0.93	0.79
Calr	calreticulin	25	3	0.91	0.90	27	1	1.07	1.05
Calu	calumenin isoform 2	4	2	0.98	0.92	2	1	0.97	0.98
Camk1d	calcium/calmodulin-dependent protein kinase type 1D	6	2	1.10	1.07	10	3	1.07	1.18
Camk2d	calcium/calmodulin-dependent protein kinase type II subunit d	4	2	1.17	1.21	3	2	1.03	1.10
Cand1	cullin-associated NEDD8-dissociated protein 1	16	6	1.19	1.12	7	6	1.10	1.12
Canx	calnexin	32	2	0.97	0.78	23	1	0.93	0.83
Cap1	Adenylyl cyclase-associated protein 1	56	6	1.09	1.13	56	5	0.85	0.89
Capg	Macrophage-capping protein isoform 2	210	6	0.97	0.93	194	7	0.98	0.99
Capn1	calpain-1 catalytic subunit	102	15	1.11	1.15	60	11	1.20	1.12
Capn2	Calpain-2 catalytic subunit	33	6	1.65	1.27	30	6	1.24	1.40
Capn5	calpain-5	17	4	0.83	0.82	19	4	1.01	1.06
Capns1	Calpain small subunit 1	10	3	1.35	1.12	3	2	1.14	1.21
Caprin1	Caprin-1 isoform c	6	1	0.85	0.98	2	1	0.89	0.92
Capza2	F-actin-capping protein subunit alpha-2	38	5	0.92	1.05	26	5	0.88	0.96
Capzb	F-actin-capping protein subunit beta isoform b	41	4	1.24	1.10	25	3	0.99	1.01
Car3	carbonic anhydrase 3	102	6	1.03	0.90	78	4	1.02	1.02
Casp8	caspase-8	4	1	0.93	0.93	3	1	0.83	0.89
Cast	calpastatin	44	4	1.19	1.12	40	4	1.36	0.98
Cbfb	core-binding factor subunit beta isoform 2	2	1	0.96	0.90	ND	ND	ND	ND
Cbr1	Carbonyl reductase [NADPH] 1	32	7	0.92	0.94	32	6	0.99	0.96
Cbr2	carbonyl reductase [NADPH] 2	49	5	0.90	0.81	46	5	0.91	0.90
Cbr3	carbonyl reductase 3	18	3	1.14	0.92	17	3	0.72	0.77
Cbx3	Chromobox protein homolog 3	3	2	1.17	1.19	ND	ND	ND	ND
Ccdc109a	Coiled-coil domain-containing protein 109A	1	1	0.87	1.02	ND	ND	ND	ND
Ccdc6	PREDICTED: similar to coiled-coil domain containing 6 isoform	2	1	0.75	1.10	ND	ND	ND	ND
Ccs	copper chaperone for superoxide dismutase	6	1	1.11	1.08	ND	ND	ND	ND

Cct2	T-complex protein 1 subunit beta	70	10	0.94	1.02	40	7	0.95	0.99
Cct3	T-complex protein 1 subunit gamma	80	14	0.99	0.95	77	12	0.97	0.99
Cct4	T-complex protein 1 subunit delta	68	6	0.97	0.96	53	7	0.98	0.96
Cct5	T-complex protein 1 subunit epsilon	33	5	0.92	0.82	34	4	0.86	1.04
Cct6a	T-complex protein 1 subunit zeta	19	8	1.07	1.04	19	7	1.00	0.69
Cct7	T-complex protein 1 subunit eta	38	6	1.03	1.02	36	6	1.05	1.02
Cct8	T-complex protein 1 subunit theta	82	10	0.93	0.93	57	8	0.89	0.94
Cd109	CD109 antigen	22	5	1.09	1.04	12	5	0.95	0.99
Cd2ap	CD2-associated protein	2	1	0.98	0.98	ND	ND	ND	ND
Cd44	CD44 antigen isoform c	48	3	1.00	0.87	28	2	0.96	0.91
Cd82	CD82 antigen isoform 2	2	1	0.81	0.80	ND	ND	ND	ND
Cd99	CD99 antigen	1	1	0.95	1.00	ND	ND	ND	ND
Cda	cytidine deaminase	2	1	1.01	1.00	4	1	0.99	0.97
Cdc37	hsp90 co-chaperone Cdc37	23	3	0.85	0.96	16	2	1.05	1.02
Cdc42	cell division control protein 42 homolog	42	5	1.46	1.04	30	4	1.20	1.12
Cdc42ep4	cdc42 effector protein 4	2	1	1.02	1.00	2	1	0.81	0.88
Cdcp1	CUB domain-containing protein 1	1	1	0.80	0.92	ND	ND	ND	ND
Cdh1	cadherin-1	60	4	1.02	0.79	82	7	1.03	0.82
Cdipt	CDP-diacylglycerol--inositol 3-phosphatidyltransferase isoform	4	2	1.33	1.28	3	1	1.33	1.44
Cdk5	cell division protein kinase 5	1	1	ND	ND	ND	ND	ND	ND
Cdk7	Cell division protein kinase 7	2	1	1.18	2.14	ND	ND	ND	ND
Cds2	phosphatidate cytidylyltransferase 2	3	1	1.69	1.51	ND	ND	ND	ND
Cdv3	protein CDV3 isoform c	1	1	1.00	1.00	2	1	1.01	0.97
Ceacam1	carcinoembryonic antigen-related cell adhesion molecule 1 iso	3	1	1.12	0.77	ND	ND	ND	ND
Cenpv	centromere protein V	6	1	0.58	0.59	3	1	ND	ND
Cep290	Centrosomal protein of 290 kDa	4	1	0.75	0.72	ND	ND	ND	ND
Ces1c	liver carboxylesterase N	13	3	0.91	0.41	ND	ND	ND	ND
Ces1d	Carboxylesterase 3	91	10	0.80	0.97	57	4	0.79	0.92
Ces2c	carboxylesterase 2	12	2	1.27	1.17	17	2	1.14	1.19
Ces2g	hypothetical protein LOC72361	8	4	0.97	1.10	11	4	0.94	1.12
Cetn2	Centrin-2	3	1	1.24	0.92	ND	ND	ND	ND
Cfb	complement factor B isoform 2	1	1	0.99	0.80	ND	ND	ND	ND
Cfh	Complement factor H	15	5	1.44	0.98	17	5	1.45	1.04
Cfl2	cofilin-2	13	2	1.01	1.41	14	2	1.03	0.87

Cgn	cingulin	6	1	0.85	0.83	5	1	0.80	0.98
Chd4	chromodomain-helicase-DNA-binding protein 4	5	4	0.89	0.64	ND	ND	ND	ND
Chd5	chromodomain helicase DNA binding protein 5 isoform 2	1	1	1.01	0.96	ND	ND	ND	ND
Cherp	Calcium homeostasis endoplasmic reticulum protein	1	1	3.51	2.10	ND	ND	ND	ND
Chl1	Neural cell adhesion molecule L1-like protein	7	2	0.69	0.75	6	2	1.01	0.92
Chmp2a	charged multivesicular body protein 2a	10	1	0.80	0.96	7	2	0.76	1.00
Chmp2b	charged multivesicular body protein 2b	5	1	1.13	1.08	1	1	1.30	1.15
Chmp4b	charged multivesicular body protein 4b	16	2	0.86	1.09	13	2	0.92	1.22
Chmp5	Charged multivesicular body protein 5	1	1	0.50	0.49	2	1	0.95	0.72
Chmp6	Charged multivesicular body protein 6	3	1	1.01	1.13	ND	ND	ND	ND
Chpf	chondroitin sulfate synthase 2 isoform b	1	1	1.48	2.11	ND	ND	ND	ND
Chst11	carbohydrate sulfotransferase 11	1	1	ND	ND	ND	ND	ND	ND
Cirbp	cold-inducible RNA-binding protein	10	3	1.16	0.91	ND	ND	ND	ND
Cisd2	CDGSH iron sulfur domain-containing protein 2	1	1	0.66	0.88	ND	ND	ND	ND
Cisd3	Melanoma nuclear protein 13	1	1	1.26	1.48	1	1	1.13	1.32
Ckap2l	cytoskeleton-associated protein 2-like	1	1	1.33	1.15	ND	ND	ND	ND
Ckap4	cytoskeleton-associated protein 4	43	8	0.94	0.88	30	6	0.90	0.93
Ckb	Brain creatine kinase	18	4	0.84	0.82	8	3	0.96	1.07
Ckmt1	creatine kinase U-type, mitochondrial	38	5	1.06	1.14	29	3	1.35	1.01
Cldn4	claudin-4	10	3	1.15	1.20	8	2	1.28	1.06
Cldn7	claudin 7	30	1	1.07	1.26	33	1	1.07	1.12
Clec11a	C-type lectin domain family 11 member A	8	3	1.42	0.99	1	1	1.03	1.15
Clec3b	tetranectin	2	1	0.98	1.05	ND	ND	ND	ND
Clic1	Chloride intracellular channel protein 1	86	8	1.06	1.08	71	7	1.05	1.16
Clic3	chloride intracellular channel protein 3	12	2	1.06	1.00	16	4	1.04	1.02
Clint1	Clathrin interactor 1	11	4	0.86	0.85	ND	ND	ND	ND
Clns1a	methylosome subunit pICln	2	1	0.93	1.01	ND	ND	ND	ND
Clpp	putative ATP-dependent Clp protease proteolytic subunit, mito	1	1	0.88	1.51	ND	ND	ND	ND
Clptm1	Cleft lip and palate transmembrane protein 1 homolog	2	1	1.58	1.38	ND	ND	ND	ND
Clta	Clathrin light chain A isoform d	13	3	1.04	0.95	8	1	1.15	0.97
Cltb	clathrin light chain B	7	2	1.03	1.05	2	1	0.96	1.05
Cltc	clathrin heavy chain 1	176	23	1.13	1.12	144	19	1.09	1.01
Cmas	N-acylneuraminate cytidylyltransferase	1	1	1.00	1.10	ND	ND	ND	ND
Cmpk1	UMP-CMP kinase	5	2	1.02	1.12	6	1	0.87	1.10

Cnbp	Cellular nucleic acid-binding protein isoform 3	14	2	1.58	1.04	14	2	1.47	1.39
Cndp2	cytosolic non-specific dipeptidase	35	6	0.94	0.98	32	4	0.91	1.06
Cnn3	calponin-3	37	5	1.20	1.11	5	3	1.09	1.03
Cnot1	CCR4-NOT transcription complex subunit 1 isoform 2	1	1	1.15	1.28	ND	ND	ND	ND
Cnot2	CCR4-NOT transcription complex subunit 2 isoform b	1	1	1.12	1.57	ND	ND	ND	ND
Cnot3	CCR4-NOT transcription complex subunit 3	3	1	0.98	0.99	ND	ND	ND	ND
Cnpy2	protein canopy homolog 2	16	2	0.88	0.97	12	2	0.99	1.05
Cobra1	Cofactor of BRCA1	2	1	1.04	1.15	1	1	1.01	0.98
Cog4	conserved oligomeric Golgi complex subunit 4	1	1	1.18	1.28	ND	ND	ND	ND
Col11a1	Collagen alpha-1(XI) chain	20	2	1.06	1.04	11	1	1.50	1.25
Col12a1	Collagen alpha-1(XII) chain	3436	81	1.34	1.30	3320	74	1.31	1.28
Col14a1	collagen alpha-1(XIV) chain	154	21	1.28	1.45	121	18	1.18	1.38
Col17a1	collagen alpha-1(XVII) chain	30	7	0.92	0.80	18	5	0.81	0.74
Col18a1	collagen alpha-1(XVIII) chain isoform 2	1	1	1.21	1.14	ND	ND	ND	ND
Col1a1	collagen alpha-1(I) chain	1428	16	4.45	2.56	1060	14	4.51	2.66
Col1a2	Collagen alpha-2(I) chain	1272	19	4.02	2.39	961	16	4.11	2.41
Col2a1	collagen alpha-1(II) chain isoform 2	65	1	4.17	2.63	34	1	4.00	2.41
Col3a1	collagen alpha-1(III) chain	1	1	5.06	3.95	ND	ND	ND	ND
Col4a2	collagen alpha-2(IV) chain	38	4	1.55	2.99	31	4	1.44	3.16
Col4a4	collagen alpha-4(IV) chain	9	1	1.44	3.33	8	1	1.39	3.43
Col5a1	Collagen alpha-1(V) chain	133	4	1.67	1.29	125	4	1.63	1.32
Col5a2	collagen alpha-2(V) chain	36	2	1.57	0.84	46	2	1.58	0.91
Col5a3	collagen, type V, alpha 3	3	2	2.48	1.81	1	1	1.39	1.44
Col6a1	collagen alpha-1(VI) chain	1030	21	2.50	1.95	1000	16	2.39	1.89
Col6a2	collagen alpha-2(VI) chain	579	15	2.32	1.85	593	14	2.05	1.72
Col7a1	Collagen alpha-1(VII) chain	124	16	2.27	2.07	111	19	2.31	2.00
Copa	coatomer subunit alpha	13	7	1.13	1.18	10	3	1.03	1.11
Copb1	Coatomer subunit beta	13	4	1.02	0.85	8	3	1.01	0.99
Copb2	coatomer subunit beta'	26	8	0.89	0.83	20	7	1.00	0.91
Cope	Coatomer subunit epsilon	6	3	1.43	1.50	ND	ND	ND	ND
Copg	coatomer subunit gamma isoform 1	1	1	1.14	0.81	ND	ND	ND	ND
Copg2	coatomer subunit gamma-2	6	2	0.91	1.25	5	2	0.93	0.97
Cops2	COP9 signalosome complex subunit 2	4	2	1.28	0.23			ND	ND
Cops3	COP9 signalosome complex subunit 3	3	1	1.02	0.99	ND	ND	ND	ND

Cops4	COP9 signalosome complex subunit 4	3	1	1.49	1.15	2	1	1.16	1.05
Cops5	COP9 signalosome complex subunit 5	4	2	0.71	0.62	ND	ND	ND	ND
Cops7a	COP9 signalosome complex subunit 7a isoform 1	2	1	1.13	1.18	ND	ND	ND	ND
Cops8	COP9 signalosome complex subunit 8	13	2	1.08	0.61	12	2	1.01	1.00
Copz1	coatomer subunit zeta-1	7	2	1.05	0.94	3	1	0.88	1.02
Coro1b	coronin-1B	11	4	1.09	1.27	11	2	0.92	1.14
Coro1c	coronin-1C	58	5	1.04	1.22	40	4	1.09	1.19
Coro7	Coronin-7	4	1	1.08	1.29	4	2	0.84	0.87
Cotl1	coactosin-like 1	52	5	1.14	0.99	31	4	1.25	0.85
COX2	Cytochrome c oxidase subunit II [Mus musculus musculus]	9	2	1.04	0.90	10	2	0.95	0.84
Cox4i1	cytochrome c oxidase subunit 4 isoform 1, mitochondrial	14	2	1.03	0.97	9	2	1.08	0.98
Cox4nb	COX4 neighbor	1	1	0.86	1.10	ND	ND	ND	ND
Cox5a	Cytochrome c oxidase subunit 5A, mitochondrial	17	2	1.01	1.15	19	2	0.95	1.08
Cox6b1	Cytochrome c oxidase subunit 6B1	9	1	1.57	1.17	6	1	1.37	1.16
Cox7b	Cytochrome c oxidase subunit 7B, mitochondrial	3	1	1.11	1.89	4	1	1.08	2.04
Cp	Ceruloplasmin isoform b	7	3	1.18	0.70	3	1	1.18	0.83
Cpne1	copine I	6	2	0.92	0.88	6	2	1.02	1.00
Cpne3	copine-3	28	3	0.96	0.91	26	2	0.98	0.93
Cpsf6	cleavage and polyadenylation specificity factor subunit 6	8	2	0.97	0.94	4	1	0.94	1.00
Cpxm2	inactive carboxypeptidase-like protein X2	16	2	1.00	1.22	6	2	1.20	1.51
Crabp1	cellular retinoic acid-binding protein 1	1	1	1.38	1.65	5	1	1.09	1.23
Creb1	Cyclic AMP-responsive element-binding protein 1 isoform C	2	1	ND	ND	ND	ND	ND	ND
Crip2	cysteine-rich protein 2	1	1	0.09	0.98	ND	ND	ND	ND
Crk	v-crk sarcoma virus CT10 oncogene homolog	1	1	0.56	0.55	2	1	1.10	0.96
Crkl	crk-like protein	2	1	ND	ND	4	1	0.00	0.00
Crot	peroxisomal carnitine O-octanoyltransferase	9	4	0.98	0.93	8	3	0.95	1.03
Cryab	alpha-crystallin B chain	5	1	0.86	1.06	7	1	1.12	1.31
Crybb2	beta-crystallin B2	2	1	0.59	0.57	ND	ND	ND	ND
Cryl1	lambda-crystallin homolog	2	1	ND	ND	ND	ND	ND	ND
Cs	Citrate synthase, mitochondrial	47	3	1.19	1.09	44	4	1.22	1.22
Csda	DNA-binding protein A short isoform	27	2	1.19	1.08	24	2	1.20	1.11
Cse1l	Exportin-2	10	3	1.09	1.16	15	3	1.04	1.12
Csk	tyrosine-protein kinase CSK	3	2	1.34	1.11	5	2	0.89	0.95
Csl	citrate synthase-like protein	14	2	ND	ND	13	2	0.00	0.00

Csnk1a1	casein kinase I isoform alpha	16	2	0.86	0.88	8	1	0.87	0.85
Csnk1d	casein kinase I isoform delta isoform 2	4	1	0.85	0.97	ND	ND	ND	ND
Csnk2b	casein kinase II subunit beta	1	1	1.17	1.47	ND	ND	ND	ND
Cst3	cystatin-C	1	1	0.96	0.69	ND	ND	ND	ND
Cstad	CSA-conditional, T cell activation-dependent protein	2	1	ND	ND	2	1	0.00	0.00
Cstb	cystatin-B	11	1	0.81	0.93	7	1	0.92	0.98
Cstf1	Cleavage stimulation factor 50 kDa subunit	2	1	1.18	0.87	ND	ND	ND	ND
Ctbp2	C-terminal-binding protein 2 isoform 2	4	2	1.16	1.11	3	2	1.16	1.19
Cth	cystathionine gamma-lyase	2	1	0.74	0.73	2	1	0.69	0.86
Ctnna1	catenin alpha-1	71	9	0.91	0.89	44	7	0.90	0.88
Ctnna2	Catenin alpha-2 isoform 1	11	3	1.02	0.94	ND	ND	ND	ND
Ctnnb1	beta-catenin	39	7	0.78	0.82	40	8	0.96	0.93
Ctnnd1	Catenin delta-1 isoform 1	60	13	1.08	0.90	ND	ND	ND	ND
Ctnnd1	Catenin delta-1 isoform 3	49	8	1.07	0.90	ND	ND	ND	ND
Ctps	CTP synthase 1	8	2	1.19	1.09	4	1	1.16	0.84
Ctsb	cathepsin B	3	2	1.27	1.21	13	2	1.34	1.39
Ctsd	cathepsin D	25	4	0.91	0.86	15	2	0.97	1.05
Ctsh	Cathepsin H	9	2	1.10	1.21	4	1	0.67	0.45
Ctsl	cathepsin L1	2	1	0.83	0.85	2	1	0.79	0.94
Cttn	src substrate cortactin	17	4	0.91	0.91	14	2	0.92	0.88
Cul3	cullin-3	1	1	1.18	1.11	ND	ND	ND	ND
Cul4b	Cullin 4B	3	1	0.95	0.86	ND	ND	ND	ND
Cul5	cullin-5 isoform 2	1	1	1.72	1.13	ND	ND	ND	ND
Cyb5	Cytochrome b5	10	1	0.96	1.00	3	1	0.97	0.99
Cyb5r3	NADH-cytochrome b5 reductase 3	35	4	0.90	1.00	39	4	0.84	1.15
Cyc1	Cytochrome c1, heme protein, mitochondrial	2	1	0.87	0.99	1	1	1.00	0.98
Cyfip1	Cytoplasmic FMR1-interacting protein 1 isoform a	9	3	1.39	1.35	3	2	1.14	1.15
Cyp2f2	Cytochrome P450 2F2	9	3	2.41	1.57	7	2	1.88	1.32
Cyp3a13	cytochrome P450 3A13	10	5	0.84	0.70			ND	ND
Cyth1	Cytohesin-1 isoform 2	2	1	0.89	0.89	ND	ND	ND	ND
D10Wsu52e	hypothetical protein LOC28088	4	2	0.86	1.00	2	1	1.16	1.24
D17Wsu104e	hypothetical protein LOC28106	2	1	0.96	0.74	ND	ND	ND	ND
D1Pas1	Putative ATP-dependent RNA helicase Pl10	34	8	0.89	0.79	29	8	0.86	0.93
D230012E17Rik	PREDICTED: similar to GPI inositol-deacylase	3	1	1.15	1.03	ND	ND	ND	ND

Daam1	disheveled-associated activator of morphogenesis 1	1	1	0.95	0.98	ND	ND	ND	ND
Dad1	Dolichyl-diphosphooligosaccharide--protein glycosyltransferas	3	1	1.23	1.20	2	1	1.30	1.38
Dak	bifunctional ATP-dependent dihydroxyacetone kinase/FAD-A	2	1	1.75	1.47	1	1	2.18	2.91
Dapl1	death-associated protein-like 1	4	1	1.11	0.56	7	1	0.94	1.03
Dars	aspartyl-tRNA synthetase, cytoplasmic isoform 1	28	6	0.92	0.79	18	4	0.94	0.90
Dazap1	DAZ-associated protein 1 isoform a	6	2	1.04	1.31	9	2	0.85	1.00
Dbnl	drebrin-like protein isoform 3	55	6	0.90	1.01	43	6	0.91	1.02
Dci	3,2-trans-enoyl-CoA isomerase, mitochondrial	6	2	0.97	0.99	5	2	0.96	0.69
Dcn	decorin	603	9	0.99	0.74	569	8	0.96	0.73
Dcps	scavenger mRNA-decapping enzyme DcpS	11	4	1.03	1.06	ND	ND	ND	ND
Dctn1	Dynactin subunit 1	30	9	1.22	1.00	19	7	1.21	1.03
Dctn2	dynactin subunit 2	44	6	1.15	1.08	38	6	0.97	1.06
Dctn4	Dynactin subunit 4	9	2	0.89	0.77	7	3	0.90	0.81
Dcun1d1	DCN1-like protein 1	1	1	2.29	1.36	5	1	1.01	1.25
Dcxr	L-xylulose reductase	5	2	1.36	1.35	1	1	1.12	1.30
Ddah1	n(G),N(G)-dimethylarginine dimethylaminohydrolase 1	2	1	0.58	0.72	3	1	1.79	1.25
Ddb1	DNA damage-binding protein 1	6	2	0.94	0.88	4	1	0.91	0.89
Ddi2	protein DDI1 homolog 2	3	1	1.06	0.95	3	1	1.14	1.04
Ddost	dolichyl-diphosphooligosaccharide--protein glycosyltransferas	20	4	0.92	1.03	6	3	0.89	1.02
Ddt	D-dopachrome decarboxylase	11	3	0.90	1.00	12	2	0.92	1.05
Ddx1	ATP-dependent RNA helicase DDX1	9	1	0.75	0.85	2	1	1.03	1.02
Ddx17	probable ATP-dependent RNA helicase DDX17 isoform 2	46	6	1.39	1.50	ND	ND	ND	ND
Ddx17	probable ATP-dependent RNA helicase DDX17 isoform 4	53	7	1.34	1.20	ND	ND	ND	ND
Ddx19a	ATP-dependent RNA helicase DDX19A	2	1	1.08	1.01	ND	ND	ND	ND
Ddx21	nucleolar RNA helicase 2	2	1	1.12	1.55	1	1	0.92	0.97
Ddx39	ATP-dependent RNA helicase DDX39	16	3	0.83	0.90	ND	ND	ND	ND
Ddx5	probable ATP-dependent RNA helicase DDX5	95	8	0.96	0.94	79	9	0.93	0.92
Ddx56	probable ATP-dependent RNA helicase DDX56	1	1	0.94	0.83	ND	ND	ND	ND
Ddx58	Probable ATP-dependent RNA helicase DDX58	1	1	0.01	0.66	ND	ND	ND	ND
Ddx6	probable ATP-dependent RNA helicase DDX6	5	2	1.17	1.12	3	1	0.99	0.91
Dek	protein DEK	7	2	0.86	0.87	8	2	0.76	0.81
Denr	Density-regulated protein	2	1	0.95	1.03	ND	ND	ND	ND
Dera	putative deoxyribose-phosphate aldolase	4	2	1.39	1.04	ND	ND	ND	ND
Dffa	DNA fragmentation factor subunit alpha isoform b	3	1	1.11	1.08	ND	ND	ND	ND

Dhcr24	24-Dehydrocholesterol reductase	2	1	1.08	1.08	ND	ND	ND	ND
Dhrs1	dehydrogenase/reductase SDR family member 1	7	4	1.28	1.11	1	1	1.36	1.17
Dhx15	Putative pre-mRNA-splicing factor ATP-dependent RNA helic	9	4	0.99	1.11	4	2	1.09	1.18
Dhx30	putative ATP-dependent RNA helicase DHX30	1	1	1.01	1.15	1	1	ND	ND
Dhx36	probable ATP-dependent RNA helicase DHX36	2	1	0.98	1.20	ND	ND	ND	ND
Dhx9	ATP-dependent RNA helicase A	47	8	1.06	0.96	48	6	1.05	0.97
Diablo	diablo homolog, mitochondrial	5	1	0.71	1.14	2	1	0.81	0.84
Diap1	protein diaphanous homolog 1	4	2	1.11	1.15	ND	ND	ND	ND
Dip2b	disco-interacting protein 2 homolog B isoform 1	3	2	0.88	1.09	ND	ND	ND	ND
Dkc1	h/ACA ribonucleoprotein complex subunit 4	2	1	1.17	0.02			ND	ND
Dlat	dihydrolipoyllysine-residue acetyltransferase component of py	12	4	1.13	1.07	10	4	1.08	0.90
Dld	dihydrolipoyl dehydrogenase, mitochondrial	2	1	1.24	0.98	ND	ND	ND	ND
Dlg2	Disks large homolog 2	2	1	1.29	0.80	ND	ND	ND	ND
Dlst	dihydrolipoyllysine-residue succinyltransferase component of	3	2	1.07	0.81	2	1	0.90	0.73
Dnaja2	dnaJ homolog subfamily A member 2	2	1	1.20	0.98	5	1	0.88	0.92
Dnaja4	DNAJ homolog subfamily A member 4	3	1	0.73	0.87	1	1	0.75	0.75
Dnajb1	dnaJ homolog subfamily B member 1	6	3	1.01	1.29	6	3	0.99	1.03
Dnajb11	DNAJ homolog subfamily B member 11	5	1	1.13	1.02	4	2	1.00	0.80
Dnajb4	dnaJ homolog subfamily B member 4	4	2	0.98	0.92	ND	ND	ND	ND
Dnajc3	dnaJ homolog subfamily C member 3	5	1	0.98	1.00	1	1	0.90	1.04
Dnajc5	dnaJ homolog subfamily C member 5	2	1	ND	ND	4	1	4.05	3.40
Dnajc7	dnaJ homolog subfamily C member 7	4	2	0.95	0.90	2	1	0.93	1.02
Dnm1l	dynamin-1-like protein isoform b	7	4	1.11	0.98	6	4	1.17	1.20
Dnm2	dynamin-2	19	5	0.99	1.02	20	6	1.15	1.22
Dnpep	Aspartyl aminopeptidase isoform b	58	7	1.10	1.24	43	5	1.05	1.04
Dock1	dedicator of cytokinesis protein 1	4	2	0.89	0.86	3	2	1.00	1.34
Dpep1	Dipeptidase 1	16	4	1.07	0.85	17	3	1.04	0.89
Dpf2	zinc finger protein ubi-d4	5	1	0.88	0.76	ND	ND	ND	ND
Dpm1	dolichol-phosphate mannosyltransferase	8	1	1.02	1.12	6	1	0.77	1.16
Dpp3	dipeptidyl-peptidase 3	7	4	1.21	1.11	5	3	1.18	1.15
Dpt	dermatopontin	104	4	2.22	1.63	69	4	2.46	2.03
Dpysl2	dihydropyrimidinase-related protein 2	20	4	1.06	1.11	10	4	0.99	0.93
Dpysl3	dihydropyrimidinase-related protein 3 isoform 1	40	7	0.97	1.05	16	5	0.95	1.12
Dr1	protein Dr1	2	1	1.05	1.77	ND	ND	ND	ND

Drg1	developmentally-regulated GTP-binding protein 1	3	1	0.84	0.74	1	1	0.81	0.69
Dsc2	desmocollin-2	61	10	0.92	0.85	43	8	0.87	0.77
Dsc3	Desmocollin-3	22	4	0.84	0.74	23	5	0.88	0.75
Dsg1a	Desmoglein-1-alpha	123	16	0.67	0.96	108	13	0.95	0.91
Dsg1b	desmoglein-1-beta	121	14	0.95	1.36	102	12	1.26	1.10
Dsg3	Desmoglein-3	68	9	0.86	0.83	58	12	0.86	0.87
Dsp	PREDICTED: desmoplakin isoform 1	837	62	0.91	0.90	713	50	0.89	0.89
Dst	Bullous pemphigoid antigen 1, isoform 5 isoform a	4	3	1.01	0.74	6	3	0.95	1.19
Dstn	destrin	70	4	1.00	1.04	80	3	0.96	1.01
Dusp22	dual specificity protein phosphatase 22 isoform b	2	1	1.62	1.97	ND	ND	ND	ND
Dut	deoxyuridine triphosphatase isoform 2	2	1	1.19	1.24	ND	ND	ND	ND
Dync1h1	Cytoplasmic dynein 1 heavy chain 1	137	27	1.18	1.20	75	19	1.12	1.23
Dync1i2	cytoplasmic dynein 1 intermediate chain 2	9	3	0.98	1.01	8	2	0.76	1.02
Dync1li1	cytoplasmic dynein 1 light intermediate chain 1	10	1	0.90	0.94	12	1	0.86	0.90
Dync1li2	cytoplasmic dynein 1 light intermediate chain 2	6	2	1.14	1.51			ND	ND
Dynll1	dynein light chain 1, cytoplasmic	16	1	1.49	1.31	11	1	1.25	1.12
Dynll2	dynein light chain 2, cytoplasmic	8	1	1.46	1.25	6	1	1.08	1.70
Dynlrb1	dynein light chain roadblock-type 1	5	2	0.98	1.05	2	1	1.03	1.07
Ebp	3-beta-hydroxysteroid-Delta(8),Delta(7)-isomerase	1	1	1.51	1.43	1	1	1.47	1.14
Ech1	delta(3,5)-Delta(2,4)-dienoyl-CoA isomerase, mitochondrial	3	1	0.96	0.89	3	1	1.18	1.10
Echdc1	Enoyl-CoA hydratase domain-containing protein 1 isoform b	4	2	0.90	1.68	5	2	0.97	1.47
Echs1	enoyl-CoA hydratase, mitochondrial	26	3	1.00	0.99	29	3	0.93	0.98
Eef1a1	Elongation factor 1-alpha 1	104	7	0.88	0.95	71	5	0.80	0.94
Eef1b2	elongation factor 1-beta	27	2	0.85	0.92	37	2	0.89	0.89
Eef1d	elongation factor 1-delta isoform b	33	5	0.88	0.97	13	2	0.90	1.00
Eef1g	Elongation factor 1-gamma	37	4	1.00	0.97	41	3	1.12	1.27
Eef2	elongation factor 2	159	17	1.08	1.08	126	17	1.12	1.07
Efemp1	EGF-containing fibulin-like extracellular matrix protein 1	124	11	2.16	1.71	119	10	2.55	2.27
Efhd2	EF-hand domain-containing protein D2	2	2	0.84	0.78	ND	ND	ND	ND
Efnb1	ephrin-B1	2	1	1.24	1.07	2	1	1.51	1.36
Eftud2	116 kDa U5 small nuclear ribonucleoprotein component isofor	10	6	0.98	1.05	2	2	0.90	0.89
EG232970	PREDICTED: similar to pleckstrin homology-like domain, fami	20	1	0.93	1.64	22	1	ND	ND
EG382843	PREDICTED: hypothetical protein	4	1	1.08	1.17	10	1	1.10	0.97
EG432676	PREDICTED: hypothetical protein	6	2	1.74	1.39	11	3	1.59	1.35

EG434373	PREDICTED: similar to Nucleophosmin 1 isoform 3	15	2	0.84	0.81	13	2	0.84	0.81
EG547263	PREDICTED: similar to MGC82151 protein	11	1	0.79	0.89	ND	ND	ND	ND
EG620071	PREDICTED: similar to Chain C, Structure Of A Hif-1a-Pvhl-E	10	1	1.15	1.09	ND	ND	ND	ND
EG625055	PREDICTED: similar to hCG2016250, isoform 3	21	3	0.94	0.90	32	3	0.98	0.93
EG625193	PREDICTED: hypothetical protein isoform 2	2	1	0.88	0.88	ND	ND	ND	ND
EG627788	PREDICTED: similar to cytoplasmic dynein light chain 1	21	1	1.37	0.97	15	1	1.77	2.02
EG627798	PREDICTED: hypothetical protein	4	1	0.89	0.97	4	1	1.13	0.94
EG628040	PREDICTED: similar to Golgi autoantigen, golgin subfamily a,	1	1	0.64	0.86	ND	ND	ND	ND
EG629732	PREDICTED: similar to ribosomal protein S8 isoform 2	75	5	1.10	1.11	ND	ND	ND	ND
EG629739	PREDICTED: hypothetical protein	3	1	1.73	1.57	17	1	1.81	1.67
EG664891	PREDICTED: similar to ribosomal protein S26, isoform 2	30	2	1.15	0.87	33	2	1.17	0.74
EG665839	PREDICTED: similar to DnaJ-like protein	1	1	1.37	1.57	ND	ND	ND	ND
EG666634	PREDICTED: hypothetical protein isoform 1	164	2	0.99	1.12	133	2	0.98	1.06
EG668829	PREDICTED: similar to ribosomal protein L24	14	2	1.05	1.03	9	2	1.13	1.02
Egfr	epidermal growth factor receptor isoform 2	11	3	0.96	0.74	8	3	0.88	0.76
Ehd1	EH domain-containing protein 1	14	4	0.78	0.87	7	2	1.08	0.88
Ehd2	EH domain-containing protein 2	20	4	1.11	1.02	9	2	1.11	0.89
Ehd3	EH domain-containing protein 3	17	4	1.16	0.80	15	3	1.08	0.79
Ehd4	EH domain-containing protein 4	6	2	1.26	1.04	ND	ND	ND	ND
Eif2a	eukaryotic translation initiation factor 2A	2	1	1.32	1.57	ND	ND	ND	ND
Eif2b2	translation initiation factor eIF-2B subunit beta	3	1	1.40	0.69	2	1	1.10	0.90
Eif2s1	Eukaryotic translation initiation factor 2 subunit 1	32	6	0.91	0.98	18	5	0.84	0.80
Eif2s2	Eukaryotic translation initiation factor 2 subunit 2	12	3	0.98	1.14	11	4	1.09	1.17
Eif3a	Eukaryotic translation initiation factor 3 subunit A	10	3	1.58	1.73	6	5	1.01	1.01
Eif3b	eukaryotic translation initiation factor 3 subunit B	17	4	1.06	1.11	12	2	1.07	1.08
Eif3c	eukaryotic translation initiation factor 3 subunit C	13	6	0.95	0.95	ND	ND	ND	ND
Eif3d	Eukaryotic translation initiation factor 3 subunit D	8	1	1.06	1.10	5	2	1.20	1.38
Eif3e	eukaryotic translation initiation factor 3 subunit E	5	2	1.18	1.23	2	2	1.19	1.15
Eif3f	eukaryotic translation initiation factor 3 subunit F	12	2	0.86	0.75	9	2	0.83	0.84
Eif3g	eukaryotic translation initiation factor 3 subunit G	5	2	0.22	0.29	7	1	1.30	1.05
Eif3h	eukaryotic translation initiation factor 3 subunit H	1	1	0.97	0.93	ND	ND	ND	ND
Eif3i	eukaryotic translation initiation factor 3 subunit I	3	1	0.96	0.96	ND	ND	ND	ND
Eif3j	Eukaryotic translation initiation factor 3 subunit J	2	1	0.81	0.99	ND	ND	ND	ND
Eif3k	eukaryotic translation initiation factor 3 subunit K	3	1	1.34	1.10	ND	ND	ND	ND

Eif3l	eukaryotic translation initiation factor 3 subunit L	13	4	1.33	1.24	12	3	1.34	1.38
Eif3m	eukaryotic translation initiation factor 3 subunit M	8	3	1.29	1.12	7	2	0.82	1.21
Eif4a1	eukaryotic initiation factor 4A-I isoform 2	120	8	0.94	0.95	102	4	0.91	0.96
Eif4a3	eukaryotic initiation factor 4A-III	4	1	1.09	1.30	5	1	1.01	0.97
Eif4b	Eukaryotic translation initiation factor 4B	4	2	1.01	0.95	ND	ND	ND	ND
Eif4e	eukaryotic translation initiation factor 4E	3	1	0.93	0.91	3	1	1.11	1.23
Eif4g1	eukaryotic translation initiation factor 4 gamma 1 isoform b	10	6	0.89	0.72	1	1	0.90	1.18
Eif4g2	Eukaryotic translation initiation factor 4 gamma 2 isoform 2	14	5	1.08	1.03	4	2	1.33	1.29
Eif4h	Eukaryotic translation initiation factor 4H	22	1	0.97	0.92	30	1	0.98	0.99
Eif5a	eukaryotic translation initiation factor 5A-1	2	1	ND	1.46	ND	ND	ND	ND
Eif6	eukaryotic translation initiation factor 6	4	1	0.99	0.97	ND	ND	ND	ND
Elavl1	ELAV-like protein 1	15	3	0.88	1.01	14	3	0.91	1.11
Elmo2	engulfment and cell motility protein 2 isoform 3	2	1	1.01	0.63	ND	ND	ND	ND
Elmo3	engulfment and cell motility protein 3	1	1	0.78	1.64	ND	ND	ND	ND
Elovl1	elongation of very long chain fatty acids protein 1 isoform 2	6	1	1.89	1.91	3	1	1.85	1.80
Elp3	elongator complex protein 3	3	1	1.14	0.82	2	1	1.09	1.01
Emilin1	EMILIN-1	9	2	1.08	1.91	5	3	1.20	2.26
Eml2	echinoderm microtubule-associated protein-like 2 isoform 2	2	2	0.89	0.86	2	1	0.94	1.03
Eml3	echinoderm microtubule-associated protein-like 3	2	1	1.64	1.29	1	1	1.26	1.12
Endod1	Endonuclease domain-containing 1 protein	8	2	0.98	1.02	4	2	1.00	1.17
Enoph1	enolase-phosphatase E1	2	1	1.31	1.29	ND	ND	ND	ND
Enpp3	Ectonucleotide pyrophosphatase/phosphodiesterase family m	1	1	1.10	1.41	ND	ND	ND	ND
Epb4.1l1	band 4.1-like protein 1 isoform b	21	4	0.87	1.03	23	4	0.87	0.89
Epb4.1l2	Band 4.1-like protein 2	2	1	1.02	0.86	2	1	1.25	0.89
Ephx1	epoxide hydrolase 1	30	5	0.99	1.05	30	7	0.96	1.02
Ephx2	epoxide hydrolase 2	22	6	0.94	1.00	16	5	1.00	0.93
Epn1	epsin-1	1	1	1.02	1.08	ND	ND	ND	ND
Eppk1	epiplakin	57	13	1.09	0.96	51	9	1.11	0.89
Eprs	bifunctional aminoacyl-tRNA synthetase	23	4	0.91	0.90	23	4	1.05	0.93
Eps15	epidermal growth factor receptor substrate 15 isoform B	3	1	1.35	1.27	ND	ND	ND	ND
Eps15	epidermal growth factor receptor substrate 15 isoform A	1	1	0.94	0.94	ND	ND	ND	ND
Eps15l1	epidermal growth factor receptor substrate 15-like 1 isoform b	2	1	1.12	1.06	3	1	2.16	0.62
Eps8l1	epidermal growth factor receptor kinase substrate 8-like prote	8	2	0.91	0.78	4	2	0.83	0.87
Eps8l2	epidermal growth factor receptor kinase substrate 8-like prote	39	4	1.06	1.08	40	5	1.00	1.06

Erap1	Endoplasmic reticulum aminopeptidase 1	2	1	0.84	0.79	ND	ND	ND	ND
Erbb2ip	protein LAP2 isoform 2	7	2	0.86	0.87	5	2	0.79	0.83
Ergic1	Endoplasmic reticulum-Golgi intermediate compartment prote	1	1	1.04	1.04	1	1	0.81	0.89
Erlin1	erlin-1	5	2	1.00	1.05	ND	ND	ND	ND
Erlin2	erlin-2	16	3	0.98	0.99	11	3	0.87	0.96
Ermp1	Endoplasmic reticulum metallopeptidase 1	8	2	0.95	1.03	1	1	1.13	1.13
Ero1l	ERO1-like protein alpha	1	1	1.04	1.20	ND	ND	ND	ND
Erp29	endoplasmic reticulum resident protein 29	17	3	0.89	0.86	17	4	0.94	0.89
Erp44	endoplasmic reticulum resident protein ERp44	21	2	0.82	0.92	25	2	0.96	1.06
Esd	S-formylglutathione hydrolase	9	2	1.67	1.42	14	2	3.13	2.57
Esrp1	Epithelial splicing regulatory protein 1	16	4	0.99	1.05	4	2	0.85	0.90
Esyt1	extended synaptotagmin-1	3	2	1.27	1.21	ND	ND	ND	ND
Etf1	Eukaryotic peptide chain release factor subunit 1	9	4	0.93	0.88	9	3	0.99	0.85
Etfa	electron transfer flavoprotein subunit alpha, mitochondrial	45	6	0.94	1.00	28	2	0.89	1.01
Etl4	Sickle tail protein	3	2	0.95	0.96	ND	ND	ND	ND
Evpl	Envoplakin	455	39	0.91	0.93	362	35	0.90	0.94
Ewsr1	RNA-binding protein EWS	3	1	1.98	2.02	ND	ND	ND	ND
Exosc8	exosome complex exonuclease RRP43 isoform 2	1	1	0.73	0.81	ND	ND	ND	ND
F11r	junctional adhesion molecule A	12	2	0.85	0.81	10	3	1.20	0.94
F2	coagulation factor II	2	1	1.03	0.81	ND	ND	ND	ND
F3	coagulation factor III	29	2	0.91	0.91	22	1	0.76	0.94
Fabp5	fatty acid-binding protein, epidermal	13	1	1.16	0.88	6	1	1.14	0.76
Fadd	protein FADD	2	1	0.44	1.04	ND	ND	ND	ND
Faf2	FAS-associated factor 2	7	3	0.96	0.53	1	1	1.43	0.99
Fah	fumarylacetoacetase	5	3	0.91	0.90	3	2	0.91	0.92
Fam107b	Hypothetical protein LOC66540	1	1	0.88	1.34	ND	ND	ND	ND
Fam120a	Constitutive coactivator of PPAR-gamma-like protein 1	7	3	1.02	0.97	1	1	1.17	1.12
Fam129a	protein Niban	5	3	0.99	0.83	ND	ND	ND	ND
Fam129b	niban-like protein 1	45	4	0.86	1.07	26	3	0.90	1.06
Fam162a	growth and transformation-dependent protein	4	1	1.15	1.12	5	1	1.00	1.06
Fam169a	hypothetical protein LOC320557	26	4	0.81	0.83	29	4	0.93	0.92
Fam192a	NEFA-interacting nuclear protein NIP30	2	1	0.95	1.01	ND	ND	ND	ND
Fam40a	hypothetical protein LOC229707	2	1	2.83	1.07	ND	ND	ND	ND
Fam49b	hypothetical protein LOC223601	8	2	1.43	1.32	5	2	0.98	1.01

Fam83a	hypothetical protein LOC239463	6	2	1.09	1.06	6	2	0.98	0.99
Fam83h	family with sequence similarity 83, member H	19	7	0.96	0.96	13	3	0.84	0.91
Fam84a	family with sequence similarity 84, member A	1	1	0.90	1.36	ND	ND	ND	ND
Fam92b	hypothetical protein LOC436062	1	1	2.23	1.44	ND	ND	ND	ND
Fam98a	Hypothetical protein LOC72722	1	1	0.92	1.04	ND	ND	ND	ND
Fam98b	family with sequence similarity 98, member B	4	2	1.17	2.04	ND	ND	ND	ND
Fancf	Fanconi anemia, complementation group F	4	1	1.66	10.07	8	1	1.16	5.91
Farsa	Phenylalanyl-tRNA synthetase alpha chain	5	2	1.25	1.46	3	2	1.45	1.51
Farsb	phenylalanyl-tRNA synthetase beta chain	9	2	1.06	0.87	2	2	0.95	0.66
Fasn	fatty acid synthase	60	15	1.06	1.03	53	11	0.98	0.99
Fbln1	Fibulin-1	23	5	1.34	1.16	29	5	1.35	1.35
Fbln5	fibulin-5	174	8	2.20	1.83	170	10	2.19	1.77
Fbn1	Fibrillin-1	114	23	2.91	2.47	83	21	2.45	2.38
Fdps	farnesyl pyrophosphate synthetase	22	1	1.12	0.78	19	1	1.16	0.90
Fech	ferrochelatase, mitochondrial	2	1	0.93	0.91	ND	ND	ND	ND
Fen1	flap endonuclease 1	7	3	0.95	0.87	ND	ND	ND	ND
Fermt1	Fermitin family homolog 1	1	1	1.34	1.47	ND	ND	ND	ND
Fga	fibrinogen, alpha polypeptide isoform 2	10	3	1.50	0.75	11	3	1.37	0.71
Fgb	fibrinogen beta chain	6	2	1.53	0.88	8	3	1.54	0.78
Fgg	fibrinogen gamma chain	10	1	1.65	0.68	5	2	1.34	0.81
Fh1	fumarate hydratase, mitochondrial	3	2	1.17	1.28	1	1	1.85	1.10
Fis1	mitochondrial fission 1 protein isoform 2	2	1	1.10	1.02	ND	ND	ND	ND
Fkbp15	FK506-binding protein 15	2	1	1.26	1.64	4	1	0.71	1.02
Fkbp1a	peptidyl-prolyl cis-trans isomerase FKBP1A	1	1	1.12	0.88	ND	ND	ND	ND
Fkbp2	FK506-binding protein 2	5	3	0.91	0.90	5	2	0.19	0.26
Fkbp3	FK506-binding protein 3	7	2	0.91	0.82	4	1	1.06	0.99
Fkbp4	FK506-binding protein 4	2	1	1.59	1.29			ND	ND
Fkbp8	FK506-binding protein 8 isoform b	3	1	0.98	0.85	3	1	0.80	0.69
Fkbp9	FK506 binding protein 9	2	1	1.01	1.01	1	1	0.92	0.98
Flii	Protein flightless-1 homolog	3	1	0.93	1.28	1	1	1.14	1.25
Flna	Filamin-A	93	23	0.93	0.96	58	16	0.98	0.95
Flnb	Filamin-B	52	16	0.92	1.01	37	12	0.87	0.92
Flot2	flotillin-2 isoform 2	1	1	1.31	1.01	ND	ND	ND	ND
Fmod	Fibromodulin	238	6	1.62	3.00	233	6	1.62	3.10

Fmr1	fragile X mental retardation protein 1 homolog	2	2	1.21	1.10	4	2	1.07	1.02
Fn1	fibronectin 1	165	23	1.29	1.39	167	19	1.24	1.39
Fndc3b	fibronectin type III domain-containing protein 3B	1	1	1.92	0.94	1	1	1.18	1.05
Frg1	protein FRG1	3	1	0.75	0.87	3	1	0.80	0.90
Ftsjd2	S-adenosyl-L-methionine-dependent methyltransferase FTSJ	2	1	1.54	1.60	ND	ND	ND	ND
Fubp1	far upstream element-binding protein 1	12	4	0.97	1.05	7	5	0.99	0.94
Fubp3	far upstream element (FUSE) binding protein 3	4	3	1.06	1.01	ND	ND	ND	ND
Fus	RNA-binding protein FUS	10	2	0.86	0.96	6	2	3.46	3.14
Fxyd3	FXYD domain-containing ion transport regulator 3	2	1	0.45	0.59	ND	ND	ND	ND
Fyco1	FYVE and coiled-coil domain-containing protein 1	1	1	ND	ND	ND	ND	ND	ND
G3bp1	ras GTPase-activating protein-binding protein 1	18	2	0.79	0.71	38	3	0.93	0.88
G3bp2	Ras GTPase-activating protein-binding protein 2 isoform b	3	1	0.13	0.32	3	1	0.00	1.10
G6pdx	glucose-6-phosphate 1-dehydrogenase X	61	8	0.91	1.04	60	7	0.90	1.03
Gak	cyclin G-associated kinase	1	1	0.89	0.86	ND	ND	ND	ND
Gale	UDP-glucose 4-epimerase	5	2	1.22	1.51	ND	ND	ND	ND
Galk2	N-acetylgalactosamine kinase	1	1	0.92	1.08	ND	ND	ND	ND
Galm	galactose mutarotase	2	1	1.07	1.10	ND	ND	ND	ND
Galnt12	polypeptide N-acetylgalactosaminyltransferase 12	2	1	0.93	0.93	ND	ND	ND	ND
Galnt4	polypeptide N-acetylgalactosaminyltransferase 4	1	1	0.98	0.97	ND	ND	ND	ND
Galnt6	polypeptide N-acetylgalactosaminyltransferase 6	1	1	4.44	3.02	ND	ND	ND	ND
Galnt7	N-acetylgalactosaminyltransferase 7 isoform 1	1	1	1.74	1.90	1	1	0.80	1.63
Ganab	neutral alpha-glucosidase AB	31	7	1.13	1.30	24	5	1.22	1.24
Ganc	Neutral alpha-glucosidase C	2	1	0.83	0.83	ND	ND	ND	ND
Gap43	neuromodulin	2	1	0.88	20.98	ND	ND	ND	ND
Gars	glycyl-tRNA synthetase	2	1	0.93	1.04	6	2	1.06	1.00
Gart	trifunctional purine biosynthetic protein adenosine-3	1	1	0.89	1.01	1	1	1.54	1.37
Gbe1	1,4-alpha-glucan-branching enzyme	3	1	1.07	1.15	3	1	1.03	1.20
Gcat	2-amino-3-ketobutyrate coenzyme A ligase, mitochondrial isof	4	2	1.12	1.00	4	2	1.04	0.96
Gclc	glutamate--cysteine ligase catalytic subunit	7	3	1.02	1.13	2	1	1.16	1.19
Gcsh	Glycine cleavage system H protein, mitochondrial	2	1	0.97	0.06	3	1	1.18	1.12
Gda	guanine deaminase	5	3	0.86	0.98	10	4	0.88	0.91
Gdi1	rab GDP dissociation inhibitor alpha	64	9	0.93	1.23	68	9	0.94	1.12
Gdi2	Rab GDP dissociation inhibitor beta	120	13	0.99	1.00	134	11	0.98	1.03
Get4	conserved edge expressed protein isoform 2	2	1	1.38	0.88	ND	ND	ND	ND

Gfpt1	glucosamine--fructose-6-phosphate aminotransferase [isomer	13	5	1.12	1.00	10	5	1.19	1.21
Gipc1	PDZ domain-containing protein GIPC1	2	1	1.20	1.20	ND	ND	ND	ND
Gja1	gap junction alpha-1 protein	2	1	1.02	0.10	ND	ND	ND	ND
Glg1	golgi apparatus protein 1	1	1	1.51	1.22	ND	ND	ND	ND
Glo1	Lactoylglutathione lyase	13	2	0.86	0.78	10	2	0.88	0.94
Glod4	glyoxalase domain-containing protein 4	8	4	0.98	1.00	5	2	0.87	1.03
Glrx3	glutaredoxin-3	17	4	0.93	0.93	9	2	0.96	0.49
Glrx5	glutaredoxin-related protein 5	3	1	1.16	0.68	5	2	1.33	0.87
Glt25d2	procollagen galactosyltransferase 2	1	1	1.15	1.07	ND	ND	ND	ND
Gltp	glycolipid transfer protein	1	1	0.86	0.91	ND	ND	ND	ND
Glud1	glutamate dehydrogenase 1, mitochondrial	43	5	1.07	0.98	26	5	1.11	1.14
Glul	glutamine synthetase	37	5	1.19	1.39	29	4	1.15	1.22
Glyr1	Putative oxidoreductase GLYR1 isoform 2	2	2	1.24	1.24	ND	ND	ND	ND
Gm10063	PREDICTED: hypothetical protein	5	2	1.07	1.00	ND	ND	ND	ND
Gm10071	PREDICTED: hypothetical protein	102	6	0.95	1.00	99	6	0.93	0.98
Gm10119	PREDICTED: similar to ribosomal protein S3a	44	4	0.92	0.92	35	5	0.87	0.84
Gm10131	PREDICTED: similar to human protein homologous to DROEI	8	1	2.76	2.76	7	2	2.52	2.00
Gm10221	PREDICTED: hypothetical protein	4	1	1.08	1.05	15	2	1.07	1.12
Gm10349	PREDICTED: hypothetical protein	3	1	1.35	1.28	1	1	1.20	1.17
Gm106	RPE-spondin	3	1	2.14	2.30	ND	ND	ND	ND
Gm11575	PREDICTED: similar to SEC61 gamma	1	1	1.87	1.58	1	1	2.44	2.14
Gm12657	Predicted gene 12657	28	3	1.12	1.25	14	1	1.15	1.21
Gm13072	PREDICTED: hypothetical protein	3	1	1.32	1.14	3	1	1.12	1.22
Gm13981	PREDICTED: similar to ribosomal protein L27a-like	4	2	ND	ND	ND	ND	ND	ND
Gm14173	PREDICTED: similar to ribosomal protein L37a	14	1	1.15	1.54	9	1	1.07	1.55
Gm14277	PREDICTED: similar to small nuclear riboprotein Sm-D isofor	3	1	1.35	1.10	3	1	1.39	1.47
Gm15453	PREDICTED: hypothetical protein	1	1	1.00	1.07	ND	ND	ND	ND
Gm15501	PREDICTED: similar to ribosomal protein S8 isoform 1	107	6	1.07	1.00	78	5	1.07	1.03
Gm2000	PREDICTED: similar to ribosomal protein L35	1	1	1.05	1.23	ND	ND	ND	ND
Gm2a	ganglioside GM2 activator	2	1	1.60	0.96			ND	ND
Gm3902	PREDICTED: hypothetical protein	1	1	0.78	0.91	ND	ND	ND	ND
Gm3940	PREDICTED: similar to ribosomal protein L23a	37	2	0.98	1.00	23	2	0.93	0.99
Gm4459	PREDICTED: hypothetical protein	2	1	10.67	16.67	ND	ND	ND	ND
Gm462	PREDICTED: hypothetical protein	1	1	ND	ND	ND	ND	ND	ND

Gm4987	Hypothetical protein LOC245405	2	1	1.05	0.91	ND	ND	ND	ND
Gm5292	PREDICTED: similar to ribosomal protein L15	10	2	1.23	1.06	4	2	1.20	1.11
Gm5409	Try10-like trypsinogen	3	1	1.16	1.44	1	1	1.28	1.50
Gm5621	PREDICTED: similar to QM protein isoform 2	5	2	1.64	1.81	ND	ND	ND	ND
Gm5745	PREDICTED: hypothetical protein	29	3	1.29	1.11	30	3	1.31	1.12
Gm5771	trypsinogen 12	1	1	ND	ND	ND	ND	ND	ND
Gm5908	PREDICTED: hypothetical protein	26	3	0.92	1.00	34	2	0.89	1.03
Gm5963	PREDICTED: hypothetical protein	16	1	1.15	1.03	ND	ND	ND	ND
Gm6136	PREDICTED: similar to ribosomal protein L6	119	6	1.01	0.95	104	5	1.02	0.98
Gm6265	PREDICTED: hypothetical protein	4	1	1.16	1.06	ND	ND	ND	ND
Gm6314	PREDICTED: similar to 3110003A17Rik protein	3	1	ND	ND	ND	ND	ND	ND
Gm6570	PREDICTED: similar to ribosomal protein L30	59	2	1.43	1.04	48	2	1.42	1.01
Gm6901	PREDICTED: similar to Chromobox homolog 3 (HP1 gamma	6	1	1.06	1.15	ND	ND	ND	ND
Gm6988	PREDICTED: similar to hCG1640785	15	2	0.86	0.96	11		ND	ND
Gm8186	PREDICTED: similar to Sm protein G	4	1	0.99	0.86	7	1	1.14	0.99
Gm9386	PREDICTED: hypothetical protein	3	1	ND	ND	1	1	0.00	0.00
Gm9769	PREDICTED: similar to Sid3177p	1	1	19.31	16.23	3	1	13.34	11.57
Gmfb	glia maturation factor beta	2	1	0.94	1.05	3	1	0.95	1.05
Gmppa	mannose-1-phosphate guanyltransferase alpha	1	1	1.21	1.17	ND	ND	ND	ND
Gmppb	mannose-1-phosphate guanyltransferase beta	4	1	1.13	1.01	1	1	1.30	1.14
Gmps	GMP synthase	4	2	0.99	1.01	2	1	0.93	0.91
Gna11	guanine nucleotide-binding protein subunit alpha-11	6	2	0.86	0.89	4	1	0.96	1.05
Gna13	guanine nucleotide-binding protein subunit alpha-13	9	3	0.86	0.87	4	3	0.95	0.94
Gnai2	guanine nucleotide-binding protein G(i) subunit alpha-2	43	6	0.95	0.90	48	6	0.98	1.02
Gnai3	guanine nucleotide-binding protein G(k) subunit alpha	6	2	0.97	0.87	7	2	0.93	0.92
Gnas	Protein ALEX XXLb1	4	1	0.11	0.32	7	1	0.11	0.29
Gnas	Protein ALEX isoform g	9	3	1.29	1.07	10	3	1.14	1.03
Gnb1	guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit bet	28	2	1.45	1.15	19	2	1.14	1.20
Gnb2	Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit be	34	3	1.30	1.14	20	2	1.26	1.34
Gnb2l1	guanine nucleotide-binding protein subunit beta-2-like 1	51	6	0.92	0.81	55	5	0.93	0.84
Gng12	Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit ga	2	2	1.15	1.18	2	1	1.41	1.12
Gng2	guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit ga	2	1	1.37	1.38	ND	ND	ND	ND
Gns	N-acetylglucosamine-6-sulfatase	3	2	1.00	1.00	7	4	1.01	1.04
Golga4	golgin subfamily A member 4	4	2	1.08	1.16	ND	ND	ND	ND

Gorasp2	golgi reassembly-stacking protein 2	5	2	1.34	1.21	ND	ND	ND	ND
Got1	Aspartate aminotransferase, cytoplasmic	2	1	1.02	1.11	ND	ND	ND	ND
Got2	aspartate aminotransferase, mitochondrial	46	5	0.93	0.61	39	4	0.92	0.65
Gpd1l	glycerol-3-phosphate dehydrogenase 1-like protein	12	4	1.24	1.31	5	3	1.00	1.17
Gpd2	glycerol-3-phosphate dehydrogenase, mitochondrial	14	6	1.04	0.99	15	4	1.09	1.17
Gphn	gephyrin isoform 2	4	2	0.71	1.06	1	1	0.17	0.23
Gpi1	glucose-6-phosphate isomerase	14	6	1.00	1.05	8	3	0.86	0.83
Gpkow	G patch domain and KOW motifs-containing protein	1	1	1.02	1.04	ND	ND	ND	ND
Gpn1	GPN-loop GTPase 1	1	1	1.13	1.18			ND	ND
Gprc5a	retinoic acid-induced protein 3	3	1	0.99	0.97	2	1	1.15	1.17
Gps1	COP9 signalosome complex subunit 1	2	1	1.65	1.68	ND	ND	ND	ND
Gpt	alanine aminotransferase 1	48	11	1.27	1.33	35	7	1.07	1.25
Gpx1	glutathione peroxidase 1	21	3	1.24	1.01	21	3	1.03	1.01
Gpx3	Glutathione peroxidase 3 isoform 2	13	2	1.07	0.97	8	2	1.04	0.82
Gpx4	phospholipid hydroperoxide glutathione peroxidase, nuclear is	2	1	1.08	0.91	3	2	1.19	1.09
Grb7	growth factor receptor-bound protein 7	4	1	0.83	0.90	ND	ND	ND	ND
Grhpr	glyoxylate reductase/hydroxypyruvate reductase	14	3	0.92	1.06	9	2	0.83	1.01
Grm4	metabotropic glutamate receptor 4	2	1	0.90	1.01	ND	ND	ND	ND
Grpel1	GrpE protein homolog 1, mitochondrial	2	1	1.06	0.92	ND	ND	ND	ND
Gsn	gelsolin	88	8	0.99	0.90	56	6	0.91	0.95
Gspt1	eukaryotic peptide chain release factor GTP-binding subunit E	1	1	1.05	1.12	ND	ND	ND	ND
Gspt2	eukaryotic peptide chain release factor GTP-binding subunit E	2	1	1.10	1.15	ND	ND	ND	ND
Gsr	Glutathione reductase, mitochondrial	6	2	0.97	0.96	ND	ND	ND	ND
Gss	glutathione synthetase	18	3	1.19	0.96	13	3	0.82	0.83
Gsta3	glutathione S-transferase A3	27	5	0.88	0.97	15	3	0.94	1.03
Gsta4	Glutathione S-transferase A4	172	7	0.87	1.01	111	7	0.89	1.00
Gstk1	glutathione S-transferase kappa 1	1	1	5.03	2.93	ND	ND	ND	ND
Gstm1	glutathione S-transferase Mu 1	63	6	1.14	1.13	37	5	1.11	0.97
Gstm2	glutathione S-transferase Mu 2	31	4	1.02	1.14	19	3	1.33	1.37
Gstm5	glutathione S-transferase Mu 5	9	3	1.35	1.25	7	3	1.30	1.19
Gsto1	glutathione S-transferase omega-1	423	9	0.88	0.93	377	7	0.92	0.96
Gstp1	Glutathione S-transferase P 1	47	3	1.03	0.95	63	4	1.03	0.98
Gstt2	Glutathione S-transferase theta-2	2	1	1.03	1.11	ND	ND	ND	ND
Gstt3	glutathione S-transferase, theta 3	7	2	1.14	1.14	7	2	1.16	1.08

Gtf2a1	transcription initiation factor IIA subunit 1 isoform 1	1	1	0.97	0.94	ND	ND	ND	ND
Gtf2f1	general transcription factor IIF subunit 1	3	1	1.02	1.03	ND	ND	ND	ND
Gtf2f2	general transcription factor IIF subunit 2	1	1	0.91	0.89	1	1	0.89	0.92
Gtf3c3	general transcription factor IIIC, polypeptide 3	2	1	26.23	0.62	ND	ND	ND	ND
Gtl3	gene trap locus 3	2	1	1.08	1.19	ND	ND	ND	ND
Gtpbp1	GTP-binding protein 1	1	1	1.19	1.04	ND	ND	ND	ND
Gyg	glycogenin-1	59	4	0.87	0.96	65	3	0.88	1.00
Gyk	glycerol kinase isoform 1	5	2	1.19	0.99	8	3	1.16	1.08
H1f0	histone H1.0	11	1	0.99	0.85	19	1	0.92	0.83
H2afx	histone H2A.x	164	2	1.22	1.07	130	2	1.01	0.63
H2afy	core histone macro-H2A.1 isoform 1	39	5	0.92	0.98	22	4	0.98	0.69
H2afy2	core histone macro-H2A.2	28	3	1.01	0.95	17	3	1.00	1.04
H2-Q10	H-2 class I histocompatibility antigen, Q10 alpha chain	3	1	0.92	0.85	ND	ND	ND	ND
Hadh	Hydroxyacyl-coenzyme A dehydrogenase, mitochondrial	18	4	1.01	1.08	12	2	0.87	0.89
Hadha	trifunctional enzyme subunit alpha, mitochondrial	31	10	1.05	0.93	20	6	1.09	1.10
Hadhb	trifunctional enzyme subunit beta, mitochondrial	11	3	0.87	1.07	4	2	0.91	0.95
Has1	hyaluronan synthase 1	3	1	ND	ND	1	1	0.00	0.00
Hat1	histone acetyltransferase type B catalytic subunit	2	1	1.01	1.09	1	1	1.06	1.01
Hbb-b1	hemoglobin subunit beta-1	6	1	0.84	1.23	8	2	0.90	1.23
Hc	complement C5	2	1	0.20	1.36	ND	ND	ND	ND
Hck	tyrosine-protein kinase HCK isoform p56Hck	3	2	0.94	1.03	ND	ND	ND	ND
Hdgf	hepatoma-derived growth factor	9	3	0.78	0.94	6	2	0.89	1.02
Hdgfrp3	hepatoma-derived growth factor-related protein 3	5	1	0.92	0.92	ND	ND	ND	ND
Hdhd2	haloacid dehalogenase-like hydrolase domain-containing prot	2	1	0.84	1.09	1	1	0.79	1.08
Hdlbp	vigilin	3	2	0.66	0.76	8	3	1.00	0.89
Hebp2	heme-binding protein 2	5	2	1.02	1.24	3	1	0.88	1.10
Herc4	probable E3 ubiquitin-protein ligase HERC4	1	1	1.21	1.04	ND	ND	ND	ND
Hibadh	3-hydroxyisobutyrate dehydrogenase	3	1	1.17	1.02	4	2	1.18	0.91
Hint1	histidine triad nucleotide-binding protein 1	3	2	1.13	1.05	1	1	1.10	1.09
Hint2	Histidine triad nucleotide-binding protein 2, mitochondrial	3	1	1.10	0.98	ND	ND	ND	ND
Hip1r	huntingtin-interacting protein 1-related protein	2	1	1.15	0.87	ND	ND	ND	ND
Hist1h1a	histone H1.1	5	2	1.15	1.16	ND	ND	ND	ND
Hist1h1b	histone H1.5	15	1	0.99	1.06	12	1	0.99	1.12
Hist1h1c	histone H1.2	33	3	1.02	1.03	23	2	0.97	1.05

Hist1h1e	Histone H1.4	46	3	0.94	1.08	32	2	0.90	1.06
Hist1h2ah	histone H2A type 1-H	445	2	0.94	0.95	398	2	0.99	1.00
Hk1	hexokinase-1 isoform HK1	9	3	1.01	0.91	5	3	1.05	0.87
Hkdc1	putative hexokinase HKDC1	2	1	ND	ND	1	1	0.00	0.00
Hmgb3	high mobility group protein B3	1	1	0.97	0.88	ND	ND	ND	ND
Hmha1	minor histocompatibility protein HA-1 isoform 2	1	1	1.16	1.27	ND	ND	ND	ND
Hn1l	hematological and neurological expressed 1-like protein	2	1	1.37	1.24	3	1	1.16	1.10
Hnrnpa0	heterogeneous nuclear ribonucleoprotein A0	20	1	0.94	0.90	14	1	0.91	0.84
Hnrnpa1	heterogeneous nuclear ribonucleoprotein A1 isoform a	46	3	0.76	0.67	43	2	0.79	0.68
Hnrnpa2b1	Heterogeneous nuclear ribonucleoproteins A2/B1 isoform 1	143	8	0.90	0.88	103	6	0.78	0.91
Hnrnpa2b1	heterogeneous nuclear ribonucleoproteins A2/B1 isoform 2	136	8	ND	ND	ND	ND	ND	ND
Hnrnpab	heterogeneous nuclear ribonucleoprotein A/B isoform 2	60	6	0.86	0.93	60	6	0.89	0.89
Hnrnpc	heterogeneous nuclear ribonucleoproteins C1/C2 isoform 4	12	4	0.91	0.76	ND	ND	ND	ND
Hnrnpc	heterogeneous nuclear ribonucleoproteins C1/C2 isoform 1	40	4	0.92	0.80	35	4	0.98	0.96
Hnrnpd	Heterogeneous nuclear ribonucleoprotein D0 isoform d	78	5	0.83	0.90	68	4	0.83	0.94
Hnrnpf	heterogeneous nuclear ribonucleoprotein F	84	4	0.89	0.95	68	2	0.88	0.84
Hnrnph1	Heterogeneous nuclear ribonucleoprotein H	100	4	1.24	1.23	100	3	0.91	0.87
Hnrnph2	heterogeneous nuclear ribonucleoprotein H2	28	3	1.52	0.76	33	3	1.17	0.97
Hnrnph3	Heterogeneous nuclear ribonucleoprotein H3	3	1	1.22	1.03	ND	ND	ND	ND
Hnrnpk	Heterogeneous nuclear ribonucleoprotein K	168	11	0.93	0.93	106	9	0.89	0.88
Hnrnpl	heterogeneous nuclear ribonucleoprotein L	27	4	1.04	1.15	22	3	1.63	1.23
Hnrnpm	Heterogeneous nuclear ribonucleoprotein M isoform b	52	9	0.88	0.89	46	8	0.86	0.92
Hnrnpr	heterogeneous nuclear ribonucleoprotein R	13	3	0.93	0.88	10	2	0.86	1.01
Hnrnpu	Heterogeneous nuclear ribonucleoprotein U	114	7	0.86	0.75	101	6	0.84	0.73
Hnrnpul1	heterogeneous nuclear ribonucleoprotein U-like protein 1 isofo	2	1	1.16	1.15	1	1	0.82	0.90
Hnrnpul2	Heterogeneous nuclear ribonucleoprotein U-like protein 2	39	5	1.12	0.87	39	5	1.01	0.84
Hnrpdl	Heterogeneous nuclear ribonucleoprotein D-like	20	3	0.97	1.04	ND	ND	ND	ND
Hnrpll	Heterogeneous nuclear ribonucleoprotein L-like	4	1	1.87	1.30	4	1	0.98	0.68
Hook3	protein Hook homolog 3	3	1	1.10	1.02	ND	ND	ND	ND
Hp	haptoglobin	2	1	1.03	0.64	ND	ND	ND	ND
Hp1bp3	heterochromatin protein 1-binding protein 3 isoform 2	21	3	0.81	0.85	13	2	0.82	1.00
Hpca	neuron-specific calcium-binding protein hippocalcin	1	1	0.85	1.01	ND	ND	ND	ND
Hprt	hypoxanthine-guanine phosphoribosyltransferase	6	2	0.91	1.02	2	1	1.03	0.99
Hpx	Hemopexin	22	8	1.01	0.58	20	6	1.21	0.86

Hr	protein hairless	3	1	1.59	1.72	ND	ND	ND	ND
Hrg	histidine-rich glycoprotein	1	1	1.15	0.59	3	1	1.06	0.66
Hrsp12	ribonuclease UK114	5	1	1.19	1.10	9	2	1.31	1.23
Hs1bp3	HCLS1-binding protein 3	5	1	0.97	1.09	2	1	1.10	1.24
Hsbp1	heat shock factor-binding protein 1	3	1	0.58	0.44	ND	ND	ND	ND
Hsd17b10	3-hydroxyacyl-CoA dehydrogenase type-2	11	3	0.95	0.87	7	2	1.16	1.08
Hsd17b11	Estradiol 17-beta-dehydrogenase 11	2	2	0.54	0.60	ND	ND	ND	ND
Hsd17b12	estradiol 17-beta-dehydrogenase 12	5	2	0.90	1.08	8	2	1.13	0.84
Hsd17b2	Estradiol 17-beta-dehydrogenase 2	2	1	1.07	0.89	5	3	0.95	0.87
Hsd17b4	peroxisomal multifunctional enzyme type 2	4	2	1.00	1.02	6	4	0.91	0.86
Hsdl2	Hydroxysteroid dehydrogenase-like protein 2	3	1	0.95	1.16	ND	ND	ND	ND
Hsp90aa1	heat shock protein HSP 90-alpha	219	13	0.84	0.87	189	12	0.81	0.93
Hsp90ab1	heat shock protein HSP 90-beta	298	15	0.90	0.93	255	13	0.90	0.92
Hsp90b1	endoplasmin	123	11	0.93	0.87	69	8	0.97	0.88
Hspa1a	Heat shock 70 kDa protein 1A	653	17	2.89	2.71	666	16	0.90	1.03
Hspa1b	Heat shock 70 kDa protein 1B	675	17	0.90	0.99	685	16	1.04	1.24
Hspa1l	Heat shock 70 kDa protein 1-like	334	9	0.82	0.78	321	8	0.76	0.80
Hspa2	heat shock-related 70 kDa protein 2	173	6	0.80	0.93	ND	ND	ND	ND
Hspa4	Heat shock 70 kDa protein 4	108	13	0.89	1.05	76	10	0.91	1.03
Hspa5	78 kDa glucose-regulated protein	93	14	0.89	0.85	77	10	0.84	0.84
Hspa8	heat shock cognate 71 kDa protein	366	15	0.83	0.83	383	14	0.91	0.88
Hspa9	Stress-70 protein, mitochondrial	56	11	0.83	0.84	50	10	0.84	0.84
Hspb1	Heat shock protein beta-1	182	5	0.94	1.10	192	6	0.95	1.09
Hspd1	60 kDa heat shock protein, mitochondrial	26	6	0.82	0.88	12	3	0.73	0.71
Hspe1	10 kDa heat shock protein, mitochondrial	1	1	0.94	0.82	ND	ND	ND	ND
Hspg2	basement membrane-specific heparan sulfate proteoglycan c	120	25	1.76	2.20	105	20	1.78	2.09
Hsph1	Heat shock protein 105 kDa	1	1	1.06	1.14	ND	ND	ND	ND
Htra1	serine protease HTRA1	1	1	0.95	0.95	ND	ND	ND	ND
Huwe1	E3 ubiquitin-protein ligase HUWE1	7	2	1.14	1.16	5	3	1.26	1.11
Hyou1	Hypoxia up-regulated protein 1	17	4	0.94	0.85	19	5	0.89	0.87
Iars	isoleucyl-tRNA synthetase, cytoplasmic	1	1	1.15	1.03	ND	ND	ND	ND
Ide	Insulin-degrading enzyme	2	1	1.06	1.03	ND	ND	ND	ND
Idh1	Isocitrate dehydrogenase [NADP] cytoplasmic	29	7	0.91	0.75	22	5	1.00	0.85
Idh2	isocitrate dehydrogenase [NADP], mitochondrial	7	3	0.92	0.92	4	2	0.91	0.93

Idh3a	isocitrate dehydrogenase [NAD] subunit alpha, mitochondrial	14	3	0.91	0.86	11	2	0.88	0.89
Idh3b	isocitrate dehydrogenase 3, beta subunit	3	1	0.89	0.93	ND	ND	ND	ND
Ifi202b	Interferon-activable protein 202	3	2	0.78	1.01	2	2	1.02	1.08
Ifi35	interferon-induced 35 kDa protein homolog	2	1	1.03	1.01	3	1	1.01	1.34
Ifitm3	interferon induced transmembrane protein 3	3	1	1.05	0.97	1	1	1.18	1.11
Igbp1	immunoglobulin-binding protein 1	1	1	0.83	0.84	1	1	1.00	1.05
Igfbp2	insulin-like growth factor-binding protein 2	13	3	1.98	1.54	18	2	1.89	1.50
Ighg	PREDICTED: similar to Ig gamma-2b chain membrane isoforr	94	6	0.89	0.85	86	6	0.92	0.90
Igh-VJ558	PREDICTED: hypothetical protein	1	1	0.81	0.79	ND	ND	ND	ND
Ilf2	Interleukin enhancer-binding factor 2	5	2	0.77	0.87	10	3	0.85	0.89
Ilf3	Interleukin enhancer-binding factor 3 isoform 4	4	1	0.44	0.55	7	3	1.10	1.13
Immt	mitochondrial inner membrane protein	8	2	0.89	0.99	10	2	0.87	0.90
Impa1	inositol monophosphatase 1	4	2	0.94	1.09	7	2	0.98	1.17
Ints3	integrator complex subunit 3	2	1	18.57	0.84	ND	ND	ND	ND
Ipo5	importin-5	33	8	1.05	1.17	19	3	0.99	1.25
Ipo7	importin-7	3	1	1.15	0.92	3	1	1.76	1.54
Iqgap1	ras GTPase-activating-like protein IQGAP1	79	20	0.91	0.94	51	16	0.87	0.97
Iqgap2	Ras GTPase-activating-like protein IQGAP2	6	3	0.78	0.75	ND	ND	ND	ND
Irf6	Interferon regulatory factor 6	11	4	1.16	0.87	4	2	1.05	0.94
Isoc1	isochorismatase domain-containing protein 1	11	3	0.97	0.96	5	2	1.06	1.35
Isyna1	Inositol-3-phosphate synthase 1	1	1	1.27	1.50	ND	ND	ND	ND
Itga3	integrin alpha-3	15	2	0.95	1.06	7	2	0.82	1.07
Itga6	integrin alpha-6	50	12	0.96	0.90	49	8	1.04	0.85
Itgav	Integrin alpha-V	3	1	0.94	1.14	2	1	0.96	1.08
Itgb1	integrin beta-1	6	2	1.05	0.94	9	1	1.09	0.96
Itgb4	Integrin beta 4 isoform 2	60	13	0.91	0.86	44	12	0.86	0.87
Itih1	Inter-alpha-trypsin inhibitor heavy chain H1	27	6	1.05	0.85	13	1	0.95	0.66
Itih2	inter-alpha-trypsin inhibitor heavy chain H2	7	1	0.95	0.86	14	2	1.04	0.80
Itih3	Inter-alpha-trypsin inhibitor heavy chain H3	3	1	1.22	0.70	3	1	1.19	0.69
Itih4	inter alpha-trypsin inhibitor, heavy chain 4 isoform 2	11	6	1.00	0.96	2	2	0.84	0.82
Itpa	inosine triphosphate pyrophosphatase	18	3	1.19	1.24	11	4	1.18	1.12
Itpkc	inositol-trisphosphate 3-kinase C	3	1	0.20	0.28	2	1	1.13	0.66
Itpr2	inositol 1,4,5-trisphosphate receptor type 2 isoform 2	3	2	1.36	0.23	ND	ND	ND	ND
Itpr3	inositol 1,4,5-trisphosphate receptor type 3	9	4	1.51	1.25	6	3	1.18	1.09

Ivd	isovaleryl-CoA dehydrogenase, mitochondrial	6	4	0.96	1.06	4	2	1.00	0.91
Jup	junction plakoglobin	323	21	0.91	0.90	290	16	0.90	0.90
Kars	Lysyl-tRNA synthetase isoform 2	3	1	0.97	0.97	2	1	1.03	1.12
Kcnma1	Calcium-activated potassium channel subunit alpha-1	1	1	2.43	1.47	ND	ND	ND	ND
Kctd12	BTB/POZ domain-containing protein KCTD12	20	4	0.87	1.03	19	2	0.93	1.08
Kdelc2	KDEL (Lys-Asp-Glu-Leu) containing 2 protein	3	2	0.90	0.75	2	1	1.06	0.79
Kdsr	3-Ketodihydrosphingosine reductase	1	1	0.97	1.04	1	1	0.85	0.98
Kera	keratocan	564	10	0.98	0.61	542	9	0.98	0.61
Khdrbs1	KH domain-containing, RNA-binding, signal transduction-assc	6	2	0.95	1.01	ND	ND	ND	ND
Khsrp	Far upstream element-binding protein 2	6	3	1.17	0.62	9	3	0.93	0.88
Kidins220	Kinase D-interacting substrate 220	1	1	1.08	1.01	3	1	ND	ND
Kif13b	Kinesin family member 13B	10	2	0.86	1.13	ND	ND	ND	ND
Kif1c	Kinesin-like protein KIF1C	1	1	1.23	1.18	ND	ND	ND	ND
Kif21a	Kinesin-like protein KIF21A isoform 4	16	6	0.91	0.93	14	5	0.97	1.02
Kif5b	kinesin-1 heavy chain	33	8	0.91	0.97	29	9	0.95	1.01
Klc1	Kinesin light chain 1 isoform 1A	2	1	1.18	1.17	1	1	1.32	1.37
Klc3	kinesin light chain 3	7	2	1.07	0.72	6	2	0.08	0.66
Klc4	Kinesin light chain 4	4	1	1.22	1.18	2	1	1.27	1.20
Klhl10	Kelch-like protein 10	2	1	ND	ND	ND	ND	ND	ND
Kng1	Kininogen-1 isoform 2	14	4	1.00	0.52	7	2	0.96	0.49
Kpna1	importin subunit alpha-1	3	1	1.12	1.03	ND	ND	ND	ND
Kpna4	importin subunit alpha-4	3	1	1.29	1.32	2	2	1.00	1.49
Kpnb1	importin subunit beta-1	48	8	0.97	0.96	52	7	1.02	1.02
Krt1	Keratin, type II cytoskeletal 1	44	3	1.26	1.80	24	3	0.99	1.14
Krt10	Keratin, type I cytoskeletal 10	125	7	1.23	1.49	92	6	1.24	1.45
Krt12	Keratin, type I cytoskeletal 12	2403	18	0.84	0.90	2550	17	0.83	0.90
Krt13	keratin, type I cytoskeletal 13	278	17	0.91	0.81	244	14	0.99	0.83
Krt14	keratin, type I cytoskeletal 14	218	13	0.89	0.58	160	9	0.97	0.88
Krt15	keratin, type I cytoskeletal 15	390	19	0.87	0.84	346	18	0.91	0.88
Krt18	keratin, type I cytoskeletal 18	8	3	ND	ND	2	1	0.00	0.00
Krt19	keratin, type I cytoskeletal 19	147	9	0.67	0.70	124	7	0.51	0.50
Krt2	Keratin, type II cytoskeletal 2 epidermal	80	4	1.45	1.88	54	3	1.51	1.91
Krt20	keratin, type I cytoskeletal 20	65	2	ND	ND	57	2	0.00	0.00
Krt24	Keratin, type I cytoskeletal 24	349	3	0.79	0.82	183	3	0.82	0.89

Krt28	keratin, type I cytoskeletal 28	35	2	0.90	0.98	7	2	ND	ND
Krt31	Keratin, type I cuticular Ha1	9	3	0.72	3.84	ND	ND	ND	ND
Krt35	keratin, type I cuticular Ha5	8	2	0.45	0.52	ND	ND	ND	ND
Krt4	Keratin, type II cytoskeletal 4	206	8	0.92	0.70	280	6	0.83	0.73
Krt42	Keratin, type I cytoskeletal 42	240	6	1.47	0.96	178	6	0.11	1.79
Krt5	keratin, type II cytoskeletal 5	3677	27	0.81	0.88	3314	26	0.84	0.89
Krt6a	keratin, type II cytoskeletal 6A	1463	23	0.86	0.84	1288	22	0.89	0.83
Krt6b	Keratin, type II cytoskeletal 6B	1394	22	0.87	0.82	1220	20	0.83	0.83
Krt73	keratin, type II cytoskeletal 73	97	5	ND	ND	72	5	0.00	0.00
Krt75	keratin, type II cytoskeletal 75	803	8	ND	ND	671	8	0.00	0.00
Krt77	keratin, type II cytoskeletal 1b	93	3	1.47	2.07	80	3	1.38	2.04
Krt78	Keratin Kb40	6	1	1.35	1.88	2	2	1.48	1.50
Krt79	keratin, type II cytoskeletal 79	48	2	1.26	1.48	31	2	1.31	1.69
Krt8	Keratin, type II cytoskeletal 8	208	9	0.24	0.24	124	9	0.33	0.39
Krt80	Keratin, type II cytoskeletal 80	16	6	1.06	0.97	19	6	0.91	0.90
Krt82	keratin, type II cuticular Hb2	2	1	0.68	0.93	ND	ND	ND	ND
Krt85	keratin, type II cuticular Hb5	9	2	ND	ND	6	2	0.00	0.00
Lad1	ladinin-1	4	2	1.04	0.97	ND	ND	ND	ND
Lama2	Laminin subunit alpha-2	8	2	1.62	1.92	4	2	1.57	1.74
Lama3	laminin subunit alpha-3	30	9	1.17	1.17	41	11	1.07	1.10
Lama5	Laminin subunit alpha-5	13	3	1.58	2.16	11	2	1.00	1.56
Lamb1	Laminin subunit beta-1	12	3	1.18	1.69	6	2	1.09	2.00
Lamb2	laminin subunit beta-2	13	4	1.65	2.25	7	4	1.77	2.25
Lamb3	Laminin subunit beta-3	19	5	1.21	1.43	18	4	1.28	1.35
Lamc1	Laminin subunit gamma-1	34	8	1.22	1.92	20	7	1.40	1.84
Lamc2	Laminin subunit gamma-2	5	2	1.26	1.46	3	1	1.35	1.34
Lamp1	Lysosome-associated membrane glycoprotein 1	3	1	0.95	0.72	ND	ND	ND	ND
Lamp2	lysosome-associated membrane glycoprotein 2 isoform 2	5	1	0.90	0.89	2	1	0.90	0.84
Lancl1	lanC-like protein 1	17	1	1.61	1.66	16	1	1.42	1.54
Lap3	cytosol aminopeptidase	1	1	1.40	0.95	ND	ND	ND	ND
Larp1	la-related protein 1	2	1	ND	ND	3	2	0.98	1.01
Lars	Leucyl-tRNA synthetase, cytoplasmic	22	5	1.15	1.00	12	3	0.95	0.88
Las1l	LAS1-like	4	1	2.25	33.07	7	1	1.46	22.86
Lasp1	LIM and SH3 domain protein 1	34	3	0.96	0.91	45	3	0.96	0.99

Lbr	lamin-B receptor	2	1	1.41	0.06	7	2	1.69	1.00
Lcp1	plastin-2	22	3	0.85	0.96			ND	ND
Ldha	L-lactate dehydrogenase A chain isoform 1	194	9	0.99	0.98	161	7	0.96	0.99
Ldhb	L-lactate dehydrogenase B chain	31	2	0.96	1.03	21	2	1.34	1.59
Lgals1	galectin-1	29	3	0.99	0.85	38	1	0.99	0.81
Lgals7	galectin-7	3	2	0.90	0.66	2	1	0.89	0.65
Lgmn	legumain	4	1	0.87	1.34	7	1	1.15	1.10
Lima1	LIM domain and actin-binding protein 1 isoform b	6	2	0.87	0.85	5	1	0.90	1.03
Lin7b	protein lin-7 homolog B	5	2	1.41	1.35	ND	ND	ND	ND
Lin7c	protein lin-7 homolog C	1	1	0.92	0.91	ND	ND	ND	ND
Lman1	protein ERGIC-53	1	1	0.78	0.91	ND	ND	ND	ND
Lmna	Lamin-A/C isoform A	151	17	0.96	0.94	109	15	0.96	0.93
Lmnb1	lamin-B1	193	12	0.90	0.89	143	12	0.95	0.96
Lmnb2	Lamin-B2	22	6	0.91	1.01	15	5	0.87	1.03
Lmo7	LIM domain only 7	10	5	0.94	0.90	4	2	1.06	1.03
Lnpep	leucyl-cystinyl aminopeptidase	4	2	0.95	1.12	ND	ND	ND	ND
LOC100038833	PREDICTED: hypothetical protein	12	2	1.30	0.71	12	1	1.33	0.76
LOC100039026	PREDICTED: similar to Casein kinase 2, alpha 1 polypeptide	2	1	0.78	1.09	1	1	0.96	0.89
LOC100039155	PREDICTED: similar to Sorting nexin 9	8	2	0.95	0.95	4	1	0.93	0.98
LOC100039592	PREDICTED: similar to nuclear pore-targeting complex comp	8	2	0.74	0.88	6	2	0.78	0.86
LOC100039888	PREDICTED: similar to Pr22 isoform 1	9	2	1.15	1.15	7	1	1.37	1.41
LOC100040177	PREDICTED: similar to nuclear protein-NHP2-like protein	5	2	1.06	1.23	3	1	1.00	0.95
LOC100040898	PREDICTED: similar to Glyceraldehyde-3-phosphate dehydro	214	8	1.10	0.94	234	8	1.02	0.98
LOC100041194	PREDICTED: similar to KIAA2019 protein	87	6	1.04	0.97	110	8	1.00	0.95
LOC100041230	PREDICTED: similar to histone H4	267	4	1.19	1.07	286	4	1.21	1.05
LOC100041471	PREDICTED: hypothetical protein	12	1	3.05	2.17	1	1	3.31	3.07
LOC100041480	PREDICTED: similar to Myef2 protein	2	1	ND	ND	ND	ND	ND	ND
LOC100041823	PREDICTED: similar to general transcription factor	2	1	8.91	1.15	2	1	1.05	0.89
LOC100041985	PREDICTED: similar to Capping protein (actin filament) musc	17	3	1.05	0.96	15	2	1.08	1.08
LOC100042069	PREDICTED: similar to Inosine 5-phosphate dehydrogenase	10	2	0.86	0.86	14	2	0.92	0.97
LOC100042388	PREDICTED: hypothetical protein	12	5	1.16	1.06	ND	ND	ND	ND
LOC100042448	PREDICTED: similar to Poly A binding protein, cytoplasmic 4	1	1	2.00	1.33	1	1	14.33	0.97
LOC100042604	PREDICTED: hypothetical protein	6	1	1.18	0.98	8	1	1.35	1.03
LOC100042791	PREDICTED: similar to ribosomal protein isoform 1	23	5	0.97	1.01	12	5	1.12	1.06

LOC100042823	PREDICTED: similar to 60S ribosomal protein L9 isoform 2	14	1	0.87	0.90	ND	ND	ND	ND
LOC100042832	PREDICTED: similar to 60S ribosomal protein L9 isoform 1	17	2	1.05	1.07	ND	ND	ND	ND
LOC100042959	PREDICTED: similar to heterogeneous nuclear ribonucleopro	93	3	ND	ND	73	3	0.98	1.10
LOC100043022	PREDICTED: similar to Adhesion regulating molecule 1 isofor	7	2	0.92	1.02	3	1	1.26	1.20
LOC100043141	PREDICTED: similar to ribosomal protein L10a	13	1	0.98	0.95	6	1	0.97	0.89
LOC100043295	PREDICTED: hypothetical protein	19	3	0.99	0.93	14	3	1.10	1.09
LOC100043527	PREDICTED: similar to ribosomal protein S28	57	2	1.10	0.99	46	2	1.11	1.01
LOC100043555	PREDICTED: similar to Aak1 protein	10	2	0.87	0.89	6	2	0.92	1.03
LOC100043703	PREDICTED: hypothetical protein	4	1	1.03	1.08	4	1	1.32	1.28
LOC100043705	PREDICTED: similar to MGC89287 protein	30	2	1.01	1.05	22	2	1.10	1.01
LOC100043734	PREDICTED: hypothetical protein isoform 1	46	3	0.96	0.94	51	3	0.93	0.93
LOC100043740	PREDICTED: hypothetical protein isoform 1	32	1	1.07	1.03	9	1	1.02	1.00
LOC100043859	PREDICTED: similar to novel androgen binding protein (Abp)	1	1	2.20	1.75	ND	ND	ND	ND
LOC100043926	PREDICTED: hypothetical protein	1	1	0.96	1.45	ND	ND	ND	ND
LOC100043998	PREDICTED: similar to nuclear pore complex-associated intra	1	1	0.76	0.86	1	1	0.77	0.89
LOC100044052	PREDICTED: similar to pericentriolar material gene 1 protein	1	1	1.68	1.40	ND	ND	ND	ND
LOC100044177	PREDICTED: hypothetical protein	133	12	0.90	1.02	107	12	0.89	0.96
LOC100044204	PREDICTED: hypothetical protein	8	4	1.28	1.78	17	5	0.96	1.03
LOC100044223	PREDICTED: hypothetical protein	226	12	1.00	0.99	203	10	0.99	1.00
LOC100044385	PREDICTED: hypothetical protein	32	5	0.91	0.88	ND	ND	ND	ND
LOC100044492	PREDICTED: hypothetical protein	16	2	1.41	1.36	28	3	1.20	1.14
LOC100044500	PREDICTED: similar to Dsg2 protein	4	1	0.93	0.44	1	1	0.99	1.20
LOC100044537	PREDICTED: similar to Group specific component	2	1	0.88	0.58	4	1	0.91	0.58
LOC100044591	PREDICTED: similar to ribosomal protein L35a	2	1	1.11	0.99	1	1	1.36	1.00
LOC100044600	PREDICTED: hypothetical protein	11	2	0.96	1.09	ND	ND	ND	ND
LOC100044692	PREDICTED: similar to aldehyde reductase	6	4	1.12	1.08	9	3	1.25	1.17
LOC100044829	PREDICTED: similar to Fibrillarin isoform 2	4	1	0.95	0.89	9	1	0.93	0.92
LOC100044854	PREDICTED: hypothetical protein	2	1	0.97	1.04	2	2	1.27	1.25
LOC100044900	PREDICTED: similar to Chain A, Crystal Structure Of Human	1	1	1.16	0.57	ND	ND	ND	ND
LOC100045055	PREDICTED: similar to cellular retinol binding protein I	28	4	1.05	0.95	24	3	1.00	1.00
LOC100045062	PREDICTED: similar to small zinc finger-like protein	2	1	0.94	0.97	1	1	0.90	0.98
LOC100045296	PREDICTED: similar to Stat3B	1	1	0.94	0.97	ND	ND	ND	ND
LOC100045304	PREDICTED: similar to neurofilament protein	61	2	ND	ND	ND	ND	ND	ND
LOC100045432	PREDICTED: similar to Stromal interaction molecule 1	12	2	0.85	0.93	4	1	0.60	0.66

LOC100045439	PREDICTED: similar to testis-specific adriamycin sensitivity p	3	2	1.67	2.77	1	1	1.08	2.32
LOC100045504	PREDICTED: similar to hCG1994130	30	5	1.06	1.10	19	3	1.04	1.07
LOC100045567	PREDICTED: similar to purine nucleoside phosphorylase	13	3	0.85	1.04	8	3	1.44	1.46
LOC100045659	PREDICTED: similar to hCG1640785	15	2	0.85	0.95	ND	ND	ND	ND
LOC100045680	PREDICTED: similar to complement C4	2	1	1.01	0.77	2	1	1.06	0.99
LOC100045699	PREDICTED: similar to Electron transferring flavoprotein, beta	24	4	0.91	0.89	15	3	0.85	0.89
LOC100045782	PREDICTED: similar to leucine rich repeat containing 47	6	1	0.94	0.97	6	1	0.98	0.90
LOC100045866	PREDICTED: similar to elongation factor SIII p15 subunit	13	2	1.36	1.27	ND	ND	ND	ND
LOC100045887	PREDICTED: similar to PTB-associated splicing factor	36	6	0.96	1.00	16	7	0.97	1.06
LOC100045937	PREDICTED: hypothetical protein isoform 1	2	1	1.33	0.89	ND	ND	ND	ND
LOC100045937	PREDICTED: hypothetical protein isoform 2	2	1	1.59	1.48	ND	ND	ND	ND
LOC100045958	PREDICTED: similar to hCG45299 isoform 2	21	2	0.45	0.96	27	3	1.01	0.81
LOC100046035	PREDICTED: similar to ADAM23	1	1	1.35	1.53	ND	ND	ND	ND
LOC100046039	PREDICTED: similar to histone deacetylase HD1	2	1	0.91	0.96	1	1	0.86	0.96
LOC100046074	PREDICTED: hypothetical protein	1	1	0.90	1.08	ND	ND	ND	ND
LOC100046079	PREDICTED: hypothetical protein	2	1	1.02	1.43	ND	ND	ND	ND
LOC100046081	PREDICTED: similar to OTU domain, ubiquitin aldehyde bindi	10	2	0.95	0.90	11	2	0.91	0.85
LOC100046120	PREDICTED: similar to clusterin	20	3	1.03	0.91	15	2	1.08	0.91
LOC100046151	PREDICTED: similar to Solute carrier family 25 (mitochondria	49	8	1.14	1.09	31	7	1.12	1.10
LOC100046198	PREDICTED: similar to TF-1 apoptosis related protein 19	4	2	1.23	0.98	4	2	0.99	0.91
LOC100046213	PREDICTED: similar to Hist1h2bj protein	623	4	0.95	0.86	553	4	0.97	0.86
LOC100046321	PREDICTED: hypothetical protein	2	1	0.74	0.81	ND	ND	ND	ND
LOC100046344	PREDICTED: similar to Nucleoside diphosphate kinase A (ND	23	4	1.12	1.17	ND	ND	ND	ND
LOC100046434	PREDICTED: similar to carboxypeptidase E	1	1	ND	ND	ND	ND	ND	ND
LOC100046567	PREDICTED: hypothetical protein isoform 1	5	1	0.78	0.98	ND	ND	ND	ND
LOC100046589	PREDICTED: similar to platelet-activating factor acetylhydrola	6	2	1.02	0.99	ND	ND	ND	ND
LOC100046610	PREDICTED: hypothetical protein	52	2	0.92	1.02	ND	ND	ND	ND
LOC100046627	PREDICTED: hypothetical protein	3	1	1.46	4.57	3	1	1.77	3.45
LOC100046668	PREDICTED: similar to yeast ribosomal protein S28 homolog	12	1	0.87	0.74	6	1	0.89	0.66
LOC100046698	PREDICTED: similar to Probable ATP-dependent RNA helica	9	3	1.01	0.98	4	2	1.03	0.88
LOC100046741	PREDICTED: similar to red-1	1	1	ND	ND	ND	ND	ND	ND
LOC100046744	PREDICTED: similar to Serine/arginine repetitive matrix prote	3	1	1.19	1.01	1	1	1.11	1.01
LOC100046745	PREDICTED: hypothetical protein	3	3	1.00	0.91	16	4	0.82	0.90
LOC100046781	PREDICTED: similar to carboxypeptidase D	2	2	1.03	0.92	ND	ND	ND	ND

LOC100046823	PREDICTED: similar to proliferating cell nuclear antigen (DNA	6	2	1.15	1.10	ND	ND	ND	ND
LOC100046934	PREDICTED: similar to amine oxidase (flavin containing) dom	2	1	0.93	1.23	ND	ND	ND	ND
LOC100046995	PREDICTED: similar to 5-aminoimidazole-4-carboxamide ribo	37	7	1.06	1.04	22	4	0.99	1.04
LOC100047005	PREDICTED: hypothetical protein	5	2	1.45	0.96	ND	ND	ND	ND
LOC100047016	PREDICTED: similar to GCN1 general control of amino-acid s	7	3	1.32	1.30	1	1	1.23	1.11
LOC100047029	PREDICTED: similar to Transcriptional repressor p66 alpha ((	2	2	1.04	0.97	ND	ND	ND	ND
LOC100047184	PREDICTED: similar to proteasome alpha7/C8 subunit	1	1	1.01	1.20	ND	ND	ND	ND
LOC100047252	PREDICTED: similar to Phosphoserine aminotransferase 1 is	23	5	1.02	0.91	4	3	1.05	0.92
LOC100047340	PREDICTED: hypothetical protein	3	2	0.93	0.99	2	1	0.83	1.01
LOC100047372	PREDICTED: similar to ribosomal protein L22	28	2	1.08	1.02	23	2	1.03	1.00
LOC100047429	PREDICTED: hypothetical protein	13	3	0.94	0.87	18	4	0.92	0.85
LOC100047577	PREDICTED: hypothetical protein	4	1	0.85	0.82	2	1	0.83	0.90
LOC100047603	PREDICTED: similar to Discs, large homolog 1 (Drosophila) is	1	1	1.08	1.13	ND	ND	ND	ND
LOC100047628	PREDICTED: similar to Chain L, Structural Basis Of Antigen M	13	1	0.92	0.54	4	1	0.78	0.64
LOC100047647	PREDICTED: similar to diphosphoinositol polyphosphate phos	2	1	1.98	0.60	1	1	0.04	0.12
LOC100047658	PREDICTED: similar to Eukaryotic translation initiation factor	7	2	0.80	1.22	ND	ND	ND	ND
LOC100047696	PREDICTED: similar to Eukaryotic translation initiation factor	18	6	1.00	1.02	ND	ND	ND	ND
LOC100047722	PREDICTED: similar to airway trypsin-like protease	1	1	0.08	0.15	ND	ND	ND	ND
LOC100047753	PREDICTED: similar to Nucleoside diphosphate kinase A (ND	26	3	1.66	1.43	ND	ND	ND	ND
LOC100047777	PREDICTED: hypothetical protein	1	1	3.54	3.13	5	1	3.14	2.92
LOC100047806	PREDICTED: hypothetical protein	3	1	1.16	0.71	1	1	1.32	0.93
LOC100047864	PREDICTED: hypothetical protein	1	1	0.90	1.23	ND	ND	ND	ND
LOC100048066	PREDICTED: similar to THUMP domain containing 1	3	1	0.80	1.10	3	1	0.96	1.18
LOC100048153	PREDICTED: similar to Rps16 protein	49	5	1.15	1.05	53	5	1.07	1.11
LOC100048339	PREDICTED: similar to ribosomal protein L36a	3	1	6.88	6.51	2	1	4.41	3.98
LOC100048340	PREDICTED: hypothetical protein	45	3	1.07	1.04	48	3	1.09	1.03
LOC100048385	PREDICTED: hypothetical protein	184	7	0.88	0.90	141	7	0.88	0.91
LOC100048397	PREDICTED: similar to GTP-binding protein (smg p21B)	32	4	1.04	0.98	24	3	1.01	0.91
LOC100048445	PREDICTED: similar to fau	3	1	0.91	1.07	2	1	0.87	0.82
LOC100048462	PREDICTED: similar to QM protein	34	3	1.01	1.07	17	2	0.94	0.93
LOC100048481	PREDICTED: similar to Apoptosis inhibitor 5	1	1	1.37	1.18	ND	ND	ND	ND
LOC100048522	PREDICTED: similar to Cofilin-1 (Cofilin, non-muscle isoform)	29	3	1.21	0.88	27	2	0.93	1.08
LOC100048552	PREDICTED: hypothetical protein	9	2	2.08	1.92	1	1	2.58	2.24
LOC100048597	PREDICTED: similar to DnaJ-like protein	1	1	ND	ND	ND	ND	ND	ND

LOC100048622	PREDICTED: similar to EF-hand Ca2+ binding protein p22	2	1	0.27	0.30	ND	ND	ND	ND
LOC100048652	PREDICTED: similar to Gsta2 protein	36	5	0.95	1.01	30	4	0.93	1.08
LOC100048746	PREDICTED: similar to translation initiation factor eIF-2 gamn	10	3	1.29	1.45	6	2	0.94	1.12
LOC100048812	PREDICTED: hypothetical protein	1	1	0.95	0.87	2	1	1.03	0.97
LOC194960	PREDICTED: hypothetical protein	41	2	1.02	0.99	22	2	1.02	1.09
LOC384091	PREDICTED: similar to Snrpf protein	1	1	1.31	1.13	ND	ND	ND	ND
LOC433712	PREDICTED: similar to 67 kda laminin receptor	85	4	1.57	1.37	70	4	0.98	1.10
LOC545592	PREDICTED: similar to heterogeneous nuclear ribonucleopro	146	5	0.90	0.91	107	5	0.87	0.87
LOC545679	PREDICTED: similar to ferritin light chain 2	2	1	0.60	1.42	2	1	1.83	1.13
LOC545867	PREDICTED: similar to Chain , Calmodulin	53	2	1.05	0.91	ND	ND	ND	ND
LOC546233	PREDICTED: hypothetical protein	1	1	1.01	0.90	ND	ND	ND	ND
LOC620017	PREDICTED: similar to Ig kappa chain V-V region L7	3	1	0.66	0.85	ND	ND	ND	ND
LOC620499	PREDICTED: similar to hCG1782167	1	1	1.26	1.65	ND	ND	ND	ND
LOC625646	PREDICTED: similar to ribosomal protein L38	9	2	1.10	0.94	1	1	1.01	0.91
LOC626683	PREDICTED: hypothetical protein	9	3	1.50	1.25	ND	ND	ND	ND
LOC630729	PREDICTED: hypothetical protein	5	1	1.11	1.15	ND	ND	ND	ND
LOC631286	PREDICTED: similar to protein-tyrosine-phosphatase	3	2	1.05	1.11	3	2	0.99	1.16
LOC634100	PREDICTED: similar to Ab 414.2 heavy chain variable and joi	6	2	0.97	1.16	6	2	1.08	1.17
LOC635310	PREDICTED: similar to ribosomal protein S2 isoform 2	8	2	ND	ND	5	2	0.98	0.93
LOC635419	PREDICTED: hypothetical protein	7	2	ND	ND	1	1	0.00	0.00
LOC636537	PREDICTED: similar to translocon-associated protein alpha, r	2	1	1.49	1.20	5	1	1.14	0.94
LOC637313	PREDICTED: similar to isolog of yeast sui1 and rice gos2; put	2	1	0.81	0.88	ND	ND	ND	ND
LOC638399	PREDICTED: hypothetical protein isoform 1	36	2	0.97	1.03	28	3	0.93	1.02
LOC638908	PREDICTED: similar to Adaptor-related protein complex AP-1	1	1	0.94	1.04	ND	ND	ND	ND
LOC639119	PREDICTED: hypothetical protein	1	1	4.43	2.67	1	1	5.45	3.27
LOC639606	PREDICTED: hypothetical protein isoform 1	58	6	1.03	0.43	58	6	0.98	0.40
LOC640369	PREDICTED: similar to Rab5B	39	4	0.73	1.08	30	4	1.16	1.51
LOC664947	PREDICTED: hypothetical protein	24	1	0.93	0.87	ND	ND	ND	ND
LOC668186	PREDICTED: similar to Cell division cycle 5-like (S. pombe)	1	1	0.81	0.52	ND	ND	ND	ND
LOC669005	PREDICTED: similar to NFkB interacting protein 1	19	5	1.07	1.15	14	3	1.00	1.10
LOC670565	PREDICTED: similar to ribosomal protein S7	37	1	1.03	0.90	19	1	0.96	0.92
LOC671392	PREDICTED: similar to protein phosphatase 2A inhibitor-2 I-2	30	2	0.95	0.93	18	1	0.85	0.94
LOC672594	PREDICTED: hypothetical protein	71	7	0.92	0.87	74	7	0.89	0.86
LOC673748	PREDICTED: similar to cytochrome P450, CYP3A	4	1	1.03	1.07	ND	ND	ND	ND

LOC674583	PREDICTED: similar to mitochondrial ATP synthase coupling	13	2	0.81	0.83	7	1	0.72	0.84
LOC674810	PREDICTED: similar to Ribosomal protein L3	16	3	0.65	0.70	12	3	0.55	0.83
LOC675857	PREDICTED: similar to valosin isoform 1	248	21	0.97	1.30	238	19	0.95	1.12
LOC675985	PREDICTED: similar to ribosomal protein S6	46	3	1.12	1.95	ND	ND	ND	ND
LOC676974	PREDICTED: similar to Glucose phosphate isomerase 1 isofo	26	5	0.91	1.06	15	3	0.93	1.09
LOC677073	PREDICTED: hypothetical protein	37	5	1.00	0.86	ND	ND	ND	ND
LOC677305	PREDICTED: similar to C6orf205 protein	4	1	0.78	0.86	ND	ND	ND	ND
LOC677344	PREDICTED: similar to S-adenosylhomocysteine hydrolase	22	3	1.00	1.13	13	2	1.05	1.24
LOC677576	PREDICTED: similar to 3-methylcrotonyl-CoA carboxylase alp	1	1	1.04	1.13	ND	ND	ND	ND
Lonp1	lon protease homolog, mitochondrial	3	2	0.89	0.90	1	1	0.98	0.86
Lox	Protein-lysine 6-oxidase	2	1	5.99	4.91	3	1	2.69	2.18
Loxl1	lysyl oxidase homolog 1	1	1	1.55	1.92	ND	ND	ND	ND
Lpar3	Lysophosphatidic acid receptor 3	1	1	4.62	3.06	ND	ND	ND	ND
Lpcat3	lysophospholipid acyltransferase 5	1	1	1.68	1.78	ND	ND	ND	ND
Lpcat4	lysophospholipid acyltransferase LPCAT4	3	1	1.09	1.10	ND	ND	ND	ND
Lpp	lipoma-preferred partner homolog isoform 2	1	1	0.89	0.87	1	1	0.81	0.77
Lrba	Lipopolysaccharide-responsive and beige-like anchor protein	6	3	1.07	1.08	ND	ND	ND	ND
Lrg1	Leucine-rich alpha-2-glycoprotein	10	2	0.92	0.45	7	1	1.03	0.66
Lrp1	Prolow-density lipoprotein receptor-related protein 1	45	7	0.99	1.05	32	7	1.06	1.00
Lrp1b	Low-density lipoprotein receptor-related protein 1B	1	1	0.75	0.92	ND	ND	ND	ND
Lrpap1	alpha-2-macroglobulin receptor-associated protein	6	1	0.92	0.83	5	1	1.34	1.15
Lrpprc	Leucine-rich PPR motif-containing protein, mitochondrial	8	2	1.19	1.14	ND	ND	ND	ND
Lrrc59	leucine-rich repeat-containing protein 59	2	1	0.97	0.95	5	2	0.85	0.81
Lrrfip1	Leucine-rich repeat flightless-interacting protein 1 isoform 1	3	2	1.48	0.95	ND	ND	ND	ND
Lsm2	U6 snRNA-associated Sm-like protein LSm2 isoform 2	3	2	0.83	0.73	ND	ND	ND	ND
Lsm3	U6 snRNA-associated Sm-like protein LSm3	6	1	1.04	1.38	3	1	1.08	1.09
Lss	lanosterol synthase	3	1	1.21	1.21	3	1	1.26	1.12
Lta4h	Leukotriene A-4 hydrolase	47	10	0.95	0.93	11	6	1.03	1.08
Ltbp1	latent-transforming growth factor beta-binding protein 1 isofor	6	2	1.44	1.38	ND	ND	ND	ND
Ltbp4	Latent-transforming growth factor beta-binding protein 4 isofo	1	1	0.98	4.91	3	2	1.26	2.78
Lum	Lumican	713	11	0.80	0.13	782	11	0.83	0.11
Lxn	latexin	9	2	0.84	0.88	6	2	0.85	0.86
Ly6g6c	Lymphocyte antigen 6 complex locus protein G6c	11	3	1.49	1.83	2	2	1.13	1.10
Lypd2	Ly6/PLAUR domain-containing protein 2	2	1	2.52	0.06	6	1	1.35	0.91

Lypd3	ly6/PLAUR domain-containing protein 3	18	2	4.38	3.96	7	2	4.91	4.06
Lypla2	acyl-protein thioesterase 2	2	1	1.36	1.35	ND	ND	ND	ND
Lyplal1	lysophospholipase-like protein 1	2	1	1.10	1.15	ND	ND	ND	ND
Lztfl1	Leucine zipper transcription factor-like protein 1	4	2	0.89	1.02	2	1	0.94	0.84
M6pr	Cation-dependent mannose-6-phosphate receptor	3	1	3.97	1.63	9	1	1.48	1.09
Macf1	Microtubule-actin cross-linking factor 1	2	2	1.01	0.94	ND	ND	ND	ND
Macrod1	MACRO domain-containing protein 1	3	1	0.71	1.17	ND	ND	ND	ND
Mad1l1	mitotic spindle assembly checkpoint protein MAD1	2	1	11.87	1.06	1	1	16.22	21.92
Mal2	protein MAL2	20	1	1.29	1.34	16	1	1.14	1.32
Mamdc2	MAM domain-containing protein 2	133	14	1.29	1.10	92	13	1.36	1.13
Map4k4	Mitogen-activated protein kinase kinase kinase kinase 4	1	1	ND	ND	ND	ND	ND	ND
Mapk1	mitogen-activated protein kinase 1	20	5	1.13	1.29	21	4	1.04	1.05
Mapk3	mitogen-activated protein kinase 3	19	5	1.03	0.91	25	5	0.97	0.97
Mapkapk3	MAP kinase-activated protein kinase 3	6	1	3.51	0.89	7	2	0.55	1.35
Marcks	myristoylated alanine-rich C-kinase substrate	12	2	2.01	4.16	14	1	8.67	1.57
Mars	methionyl-tRNA synthetase, cytoplasmic isoform 2	6	1	1.13	1.12	4	1	1.10	0.95
Masp2	mannan-binding lectin serine protease 2 isoform 2	1	1	1.29	1.48	ND	ND	ND	ND
Mat2a	S-adenosylmethionine synthetase isoform type-2	10	3	1.06	1.04	7	1	1.05	1.10
Mat2b	methionine adenosyltransferase 2 subunit beta	9	2	0.85	0.95	6	2	0.93	1.06
Matn4	matrilin-4	4	2	0.97	1.30	3	1	1.13	1.39
Matr3	matrin-3	18	4	0.99	1.03	17	4	0.86	0.86
Mavs	mitochondrial antiviral-signaling protein	1	1	0.83	0.86	1	1	1.45	1.30
Mccc1	methylcrotonoyl-CoA carboxylase subunit alpha, mitochondria	3	2	0.77	0.92	ND	ND	ND	ND
Mccc2	methylcrotonoyl-CoA carboxylase beta chain, mitochondrial	2	1	0.96	0.99	1	1	0.92	1.06
Mcm2	DNA replication licensing factor MCM2	8	2	0.99	0.82	5	2	1.14	1.03
Mcm3	DNA replication licensing factor MCM3	7	3	1.79	1.69	3	1	1.21	1.42
Mcm4	DNA replication licensing factor MCM4	1	1	1.06	0.70	ND	ND	ND	ND
Mcm5	DNA replication licensing factor MCM5	4	1	0.97	0.86	1	1	1.04	0.93
Mcm7	DNA replication licensing factor MCM7	2	1	0.01	1.40	5	2	1.15	0.93
Mdh1	malate dehydrogenase, cytoplasmic	59	5	1.09	1.06	36	4	0.96	1.07
Mdh2	malate dehydrogenase 2, NAD (mitochondrial)	126	10	1.00	0.98	120	9	1.00	0.98
Mdp1	Magnesium-dependent phosphatase 1	2	1	1.17	0.91	ND	ND	ND	ND
Memo1	protein MEMO1	3	1	1.22	0.97	ND	ND	ND	ND
Metap2	methionine aminopeptidase 2	3	2	1.01	1.01	ND	ND	ND	ND

Mettl7a1	methyltransferase like 7A1	5	3	1.14	1.10	2	2	1.04	1.00
Mgea5	Bifunctional protein NCOAT	2	1	0.69	0.84	2	1	1.25	1.15
Mgst3	Microsomal glutathione S-transferase 3	3	1	1.45	1.73	ND	ND	ND	ND
Micall1	MICAL-like protein 1	2	1	0.83	1.13	ND	ND	ND	ND
Mif	macrophage migration inhibitory factor	24	2	1.61	1.60	17	2	1.48	1.51
Mink1	Misshapen-like kinase 1 isoform 1	1	1	0.51	0.43	ND	ND	ND	ND
Mlec	malectin	4	1	1.33	1.09	5	1	1.31	1.10
Mlf2	myeloid leukemia factor 2 homolog	3	1	1.22	11.50	ND	ND	ND	ND
Mllt4	Afadin	37	7	0.96	1.06	35	7	0.97	1.06
Mme	neprilysin	2	1	0.96	1.13	3	1	0.72	1.13
Mmp2	72 kDa type IV collagenase	14	3	1.74	1.70	16	3	1.16	1.39
Mobkl1b	mps one binder kinase activator-like 1B	2	1	1.08	0.89	6	1	1.16	0.98
Mobkl3	mps one binder kinase activator-like 3	1	1	1.42	1.35	ND	ND	ND	ND
Mocs3	adenylyltransferase and sulfurtransferase MOCS3	4	1	0.81	0.77	7	1	1.14	1.14
Mosc2	MOSC domain-containing protein 2, mitochondrial	10	1	2.34	2.21	8	1	2.29	2.32
Mpp5	MAGUK p55 subfamily member 5	2	1	0.97	0.89	ND	ND	ND	ND
Mpp6	MAGUK p55 subfamily member 6 isoform b	1	1	0.91	0.93	ND	ND	ND	ND
Mprip	myosin phosphatase Rho-interacting protein isoform 2	2	1	0.72	0.85	ND	ND	ND	ND
Mrc2	C-type mannose receptor 2	9	2	0.98	0.97	4	2	0.85	0.87
Mri1	methylthioribose-1-phosphate isomerase	2	1	1.47	1.32	1	1	0.99	0.94
Msh2	DNA mismatch repair protein Msh2	2	1	0.98	1.01	ND	ND	ND	ND
Msi2	RNA-binding protein Musashi homolog 2	5	2	1.09	1.03	ND	ND	ND	ND
Msn	moesin	39	5	ND	ND	ND	ND	ND	ND
Mt2	metallothionein-2	4	1	5.95	5.93	4	1	5.75	5.67
Mta2	metastasis-associated protein MTA2	2	1	0.95	0.91	ND	ND	ND	ND
Mtap	S-methyl-5'-thioadenosine phosphorylase	7	1	0.86	0.89	12	1	0.91	0.94
Mtap4	Microtubule-associated protein 4	12	6	1.00	1.06	22	6	1.03	0.95
Mtap7	Ensconsin	1	1	0.78	1.16	ND	ND	ND	ND
Mtch1	mitochondrial carrier homolog 1	2	1	0.98	1.09	2	1	1.16	1.28
Mtch2	mitochondrial carrier homolog 2	4	2	0.99	1.26	2	1	0.99	1.24
Mtdh	protein LYRIC	5	1	0.94	1.00	9	2	0.98	0.99
Mthfd1	C-1-tetrahydrofolate synthase, cytoplasmic	15	10	1.04	1.02	13	8	0.94	1.09
Mtor	serine/threonine-protein kinase mTOR	2	1	1.86	1.74	ND	ND	ND	ND
Mtpn	myotrophin	24	1	1.14	1.16	22	1	0.94	1.06

Mtr	Methionine synthase	7	1	2.44	11.77	6	1	3.12	14.94
Muc4	Mucin-4	42	6	0.79	0.82	38	6	0.76	0.81
Mug1	murinoglobulin-1	10	3	1.18	0.83	8	4	1.17	0.86
Mut	Methylmalonyl-CoA mutase, mitochondrial	2	1	1.00	1.09	ND	ND	ND	ND
Mutyh	a/G-specific adenine DNA glycosylase	3	1	1.03	0.85	2	1	0.93	0.93
Mvp	major vault protein	57	14	1.02	1.04	43	11	1.02	1.02
Mxra7	matrix-remodeling-associated protein 7	19	3	1.05	0.87	19	3	0.95	0.96
Myadm	Myeloid-associated differentiation marker	1	1	1.33	1.47	ND	ND	ND	ND
Mybbp1a	myb-binding protein 1A	1	1	1.15	1.06	5	2	1.41	1.13
Myg1	Melanocyte proliferating gene 1	3	1	0.94	1.12	ND	ND	ND	ND
Myh10	myosin-10	21	4	ND	ND	31	3	0.85	0.11
Myh14	myosin-14	337	45	0.90	0.97	292	33	0.92	1.00
Myh9	Myosin-9 isoform 1	461	35	0.94	0.97	408	29	0.92	0.95
Myl12b	myosin regulatory light chain 12B	118	7	0.91	0.96	128	7	1.00	1.12
Myl6	myosin light polypeptide 6	72	5	1.00	1.00	59	5	1.03	1.08
Myo15	Myosin-XV isoform 2a	18	1	1.13	1.08	15	1	1.11	1.13
Myo18a	myosin-XVIIIa	6	3	1.14	1.28	ND	ND	ND	ND
Myo1c	Myosin-Ic isoform b	16	4	1.26	1.25	2	2	1.16	1.19
Myo1e	myosin IE	1	1	1.19	0.97	ND	ND	ND	ND
Myo6	myosin-VI	24	10	0.97	1.02	19	7	0.94	0.90
Myoc	myocilin	1	1	1.02	0.91	ND	ND	ND	ND
Myof	Myoferlin	12	6	1.08	1.15	12	5	1.07	1.11
Naa15	NMDA receptor-regulated protein 1	7	1	1.17	1.14	4	2	1.35	1.28
Naa38	U6 snRNA-associated Sm-like protein LSm8	3	1	1.05	1.20	2	1	0.90	1.13
Naca	nascent polypeptide-associated complex subunit alpha isoforr	60	3	0.95	0.74	44	3	0.97	0.72
Nacad	NAC-alpha domain-containing protein 1	2	1	ND	ND	3	1	1.55	0.71
Nae1	NEDD8-activating enzyme E1 regulatory subunit	2	2	1.16	1.23	ND	ND	ND	ND
Naga	Alpha-N-acetylgalactosaminidase	2	1	0.93	1.05	2	1	0.99	0.86
Nagk	N-acetyl-D-glucosamine kinase isoform 1	1	1	1.01	1.12	2	1	0.98	1.10
Nans	N-acetylneuraminic acid synthase	1	1	0.81	0.80	ND	ND	ND	ND
Nap1l1	nucleosome assembly protein 1-like 1 isoform 2	3	2	1.24	0.91	ND	ND	ND	ND
Nap1l4	nucleosome assembly protein 1-like 4	9	3	0.94	1.13	13	3	1.02	1.21
Napa	Alpha-soluble NSF attachment protein	7	3	1.02	0.95	6	2	1.34	1.06
Napg	Gamma-soluble NSF attachment protein	3	1	0.80	1.05	ND	ND	ND	ND

Naprt1	nicotinate phosphoribosyltransferase	9	4	0.95	1.02	13	5	0.92	1.05
Nars	asparaginyl-tRNA synthetase, cytoplasmic isoform 2	26	7	1.26	1.24	12	3	1.16	1.05
Nasp	Nuclear autoantigenic sperm protein isoform 1	1	1	0.88	1.03	ND	ND	ND	ND
Nbeal2	neurobeachin-like protein 2	2	2	1.73	1.73	ND	ND	ND	ND
Ncbp1	Nuclear cap-binding protein subunit 1	2	1	1.43	1.21	1	1	2.03	1.47
Nccrp1	Non-specific cytotoxic cell receptor protein 1 homolog	50	6	1.02	1.20	54	6	0.93	1.15
Nckap1	nck-associated protein 1	8	3	1.23	1.28	11	4	1.12	1.28
Ncl	nucleolin	66	11	0.98	1.01	39	9	0.97	0.94
Ncstn	nicastrin	1	1	0.01	1.38	ND	ND	ND	ND
ND3	NADH dehydrogenase subunit 3 [Mus terricolor]	1	1	1.28	1.04	ND	ND	ND	ND
ND4	NADH dehydrogenase subunit 4 [Mus musculus musculus]	1	1	1.50	1.36	ND	ND	ND	ND
Ndufa12	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subu	6	1	1.14	0.73	3	1	1.04	0.84
Ndufa13	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subu	1	1	1.36	1.35	2	2	0.94	0.99
Ndufa2	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subu	1	1	1.17	1.13	1	1	0.98	1.07
Ndufa4	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subu	15	2	1.03	1.01	14	2	1.02	0.99
Ndufa9	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subu	1	1	0.90	1.06	1	1	0.96	1.00
Ndufb10	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subun	7	2	1.09	1.13	8	4	1.02	1.01
Ndufb6	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subun	2	1	1.53	4.55	1	1	1.52	3.34
Ndufb7	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subun	3	2	1.07	1.04	1	1	0.90	1.03
Ndufs1	NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochond	23	4	0.98	0.87	15	4	0.79	0.77
Ndufs2	NADH dehydrogenase [ubiquinone] iron-sulfur protein 2, mito	1	1	0.90	1.04	3	1	0.74	0.75
Ndufs3	NADH dehydrogenase [ubiquinone] iron-sulfur protein 3, mito	9	3	0.91	0.96	ND	ND	ND	ND
Ndufv2	NADH dehydrogenase [ubiquinone] flavoprotein 2, mitochond	5	2	0.99	0.97	4	1	0.91	0.97
Nebl	nebulette	2	1	1.37	1.19	ND	ND	ND	ND
Necap2	Adaptin ear-binding coat-associated protein 2	9	3	1.01	0.85	18	3	0.93	0.83
Nedd4	E3 ubiquitin-protein ligase NEDD4	30	7	1.10	1.02	13	3	1.18	1.18
Nedd8	NEDD8	4	1	0.93	1.15	2	1	0.87	1.46
Nes	nestin	8	1	1.32	2.00	10	1	1.33	1.94
Nfatc2	nuclear factor of activated T-cells, cytoplasmic 2 isoform d	9	2	1.19	0.87	4	2	1.47	1.09
Ngef	Ephexin-1 isoform 2	2	1	ND	ND	ND	ND	ND	ND
Nhp2	H/ACA ribonucleoprotein complex subunit 2	9	1	1.20	1.17	7	1	1.38	1.38
Nid1	nidogen-1	40	9	1.40	1.79	21	6	1.41	1.93
Nid2	nidogen 2	7	2	1.71	2.16	1	1	1.88	2.11
Nif3l1	NIF3-like protein 1	2	1	0.94	0.95	ND	ND	ND	ND

Nit1	nitrilase homolog 1	3	1	1.13	1.22	1	1	1.22	1.31
Nit2	Omega-amidase NIT2	5	2	0.93	0.88	ND	ND	ND	ND
Nkx3-2	Homeobox protein Nkx-3.2	1	1	0.89	0.90	ND	ND	ND	ND
Nme2	nucleoside diphosphate kinase B	19	2	1.67	1.38	20	2	1.56	1.01
Nmi	N-myc-interactor	3	1	0.62	0.69	3	1	0.71	0.82
Nmt1	glycylpeptide N-tetradecanoyltransferase 1	1	1	1.52	1.62	ND	ND	ND	ND
Nolc1	nucleolar and coiled-body phosphoprotein 1 isoform B	1	1	1.10	0.88	ND	ND	ND	ND
Nono	non-POU domain-containing octamer-binding protein	23	4	0.92	0.89	11	2	0.84	0.99
Nop56	Nucleolar protein 56	15	3	1.03	0.99	7	2	1.08	1.05
Nop58	Nucleolar protein 58	8	2	1.04	1.00	7	1	0.95	0.82
Npc2	Epididymal secretory protein E1	1	1	1.15	1.31	ND	ND	ND	ND
Npepps	aminopeptidase puromycin sensitive	52	12	1.01	1.00	34	7	0.94	1.09
Nploc4	nuclear protein localization protein 4 homolog	5	1	0.87	0.98	ND	ND	ND	ND
Npnt	nephronectin isoform b	14	3	2.21	5.05	14	3	1.51	3.20
Nptn	Neuroplastin	3	1	0.87	1.03	1	1	1.02	1.24
Nqo1	NAD(P)H dehydrogenase [quinone] 1	13	1	0.92	0.93	6	2	1.12	1.07
Nqo2	ribosyldihydronicotinamide dehydrogenase isoform 2	3	1	1.06	1.00	1	1	0.99	1.04
Nrap	Nebulin-related-anchoring protein isoform C	1	1	ND	ND	ND	ND	ND	ND
Nras	GTPase NRas	3	2	0.99	0.94	3	1	0.95	0.90
Nsdhl	sterol-4-alpha-carboxylate 3-dehydrogenase, decarboxylating	9	1	1.14	0.96	6	1	1.08	0.89
Nsf	vesicle-fusing ATPase	1	1	1.01	0.98	1	1	0.85	1.03
Nsfl1c	NSFL1 cofactor p47	35	6	1.02	0.93	21	4	0.91	0.95
Nsun2	tRNA (cytosine-5-)-methyltransferase NSUN2	4	2	1.37	0.75	ND	ND	ND	ND
Ntpcr	Nucleoside-triphosphatase C1orf57 homolog	2	1	0.21	0.66	ND	ND	ND	ND
Nub1	NEDD8 ultimate buster 1	3	1	0.17	0.22	ND	ND	ND	ND
Nucb1	nucleobindin-1 isoform 1	11	4	0.89	0.89	9	4	0.85	0.90
Nucb2	Nucleobindin-2 isoform 2	5	2	1.03	1.00	4	2	1.04	1.01
Nucks1	nuclear ubiquitous casein and cyclin-dependent kinases subs	1	1	1.31	1.35			ND	ND
Nudt19	nucleoside diphosphate-linked moiety X motif 19, mitochondri	8	1	ND	ND	7	1	0.00	0.00
Nudt4	diphosphoinositol polyphosphate phosphohydrolase 2	1	1	1.13	1.05	4	2	0.96	1.06
Numa1	nuclear mitotic apparatus protein 1	2	2	0.85	1.03	1	1	0.81	1.36
Nup107	nuclear pore complex protein Nup107	1	1	1.13	1.18	ND	ND	ND	ND
Nup155	Nuclear pore complex protein Nup155	1	1	0.92	0.86	ND	ND	ND	ND
Nup205	nucleoporin 205	3	1	1.52	1.41	ND	ND	ND	ND

Nup214	Nuclear pore complex protein Nup214	3	2	0.94	0.95	1	1	0.89	1.09
Nup93	nuclear pore complex protein Nup93	6	3	1.16	1.15	2	1	1.17	1.32
Nup98	nucleoporin 98	2	1	1.06	1.31	ND	ND	ND	ND
Nupl1	nucleoporin p58/p45	2	1	0.76	1.01	ND	ND	ND	ND
Oat	ornithine aminotransferase, mitochondrial	69	8	0.99	0.92	90	8	0.97	0.95
Obp1a	odorant binding protein Ia	2	1	1.04	1.27	ND	ND	ND	ND
Obsl1	obscurin-like 1	9	2	ND	ND	ND	ND	ND	ND
Ogdh	2-oxoglutarate dehydrogenase, mitochondrial	4	2	1.01	1.08	7	3	0.92	0.97
Ogfr	opioid growth factor receptor	1	1	1.05	1.10	ND	ND	ND	ND
Ogn	osteoglycin	175	9	0.99	0.78	136	9	1.01	0.79
Ola1	obg-like ATPase 1 isoform a	10	3	0.93	0.82	ND	ND	ND	ND
Ola1	obg-like ATPase 1 isoform b	16	1	0.88	0.92	ND	ND	ND	ND
Olfml3	olfactomedin-like protein 3	75	8	1.07	0.83	64	8	1.10	0.99
Olfr1351	olfactory receptor 1351	1	1	ND	ND	ND	ND	ND	ND
Olfr937	olfactory receptor 937	1	1	2.00	1.73	ND	ND	ND	ND
Oplah	5-oxoprolinase	6	2	0.91	0.54	ND	ND	ND	ND
Osbp	Oxysterol-binding protein 1	3	1	1.75	2.03	ND	ND	ND	ND
Osbpl10	oxysterol-binding protein-like protein 10	1	1	1.18	1.24	ND	ND	ND	ND
Osbpl8	oxysterol-binding protein-like protein 8 isoform b	1	1	0.71	0.93	ND	ND	ND	ND
Osbpl9	oxysterol-binding protein-related protein 9 isoform c	3	1	1.05	1.01	1	1	1.03	1.04
Osgep	probable O-sialoglycoprotein endopeptidase	6	1	0.94	1.04	2	1	1.04	1.30
Ostc	Oligosaccharyltransferase complex subunit OSTC	2	1	1.51	0.89	ND	ND	ND	ND
Ostf1	osteoclast-stimulating factor 1	10	3	1.13	0.88	11	2	1.27	0.95
Oxct1	succinyl-CoA:3-ketoacid-coenzyme A transferase 1, mitochon	16	4	0.93	0.91	7	2	0.88	0.81
Oxr1	oxidation resistance protein 1 isoform B	29	7	1.00	0.96	22	7	1.02	0.86
Oxsr1	Serine/threonine-protein kinase OSR1	12	2	0.82	0.86	8	1	0.97	1.04
P4hb	protein disulfide-isomerase	87	9	0.86	0.87	61	5	0.82	0.85
Pa2g4	proliferation-associated protein 2G4	15	3	0.99	0.79	8	5	0.96	0.90
Pabpc1	polyadenylate-binding protein 1	75	9	0.87	0.82	69	7	0.89	0.82
Pabpn1	polyadenylate-binding protein 2	2	1	0.84	0.77	ND	ND	ND	ND
Pacsin2	protein kinase C and casein kinase substrate in neurons prote	1	1	1.16	1.25	ND	ND	ND	ND
Pacsin3	Protein kinase C and casein kinase II substrate protein 3	2	1	0.95	1.00	2	1	1.08	1.06
Padi4	Protein-arginine deiminase type-4	27	7	0.93	0.95	17	5	0.88	0.96
Pafah1b1	platelet-activating factor acetylhydrolase IB subunit alpha	5	2	0.92	1.08	ND	ND	ND	ND

Pafah1b2	platelet-activating factor acetylhydrolase IB subunit beta	20	1	0.90	0.88	12	1	0.93	0.93
Pafah1b3	platelet-activating factor acetylhydrolase IB subunit gamma	22	1	0.93	0.97	14	1	0.91	0.94
Paics	Multifunctional protein ADE2	30	5	0.99	1.10	20	5	0.92	1.13
Pak1	Serine/threonine-protein kinase PAK 1	23	4	0.96	0.92	16	3	1.06	1.10
Pak2	serine/threonine-protein kinase PAK 2	16	4	1.06	1.44	ND	ND	ND	ND
Palld	Palladin	1	1	0.99	0.93	ND	ND	ND	ND
Papln	Papilin	4	1	1.29	1.37	3	2	1.49	1.50
Papss1	bifunctional 3'-phosphoadenosine 5'-phosphosulfate synthase	3	2	1.02	0.87	3	2	1.06	1.01
Pard3	partitioning defective 3 homolog isoform 2	1	1	1.69	0.87	ND	ND	ND	ND
Park7	protein DJ-1	87	5	0.99	1.08	74	4	1.22	1.34
Parp1	poly [ADP-ribose] polymerase 1	11	5	0.92	1.23	8	1	0.97	0.90
Parp12	poly [ADP-ribose] polymerase 12	3	1	0.96	1.00	ND	ND	ND	ND
Parp4	poly (ADP-ribose) polymerase family, member 4	1	1	0.81	0.88	ND	ND	ND	ND
Parva	alpha-parvin	2	1	0.89	0.92	1	1	0.86	0.87
Pawr	PRKC apoptosis WT1 regulator protein	1	1	1.17	1.01	ND	ND	ND	ND
Pax6	paired box protein Pax-6	2	1	1.16	0.74	ND	ND	ND	ND
Pcbp1	poly(rC)-binding protein 1	115	8	0.89	0.94	105	8	0.87	1.01
Pcbp2	Poly(rC)-binding protein 2 isoform 3	109	5	0.97	0.95	65	5	1.08	1.17
Pck2	phosphoenolpyruvate carboxykinase [GTP], mitochondrial	9	2	0.87	0.84	5	2	0.89	0.98
Pcmt1	protein-L-isoaspartate(D-aspartate) O-methyltransferase	5	2	0.98	0.98	3	1	0.88	1.22
Pcnp	PEST proteolytic signal-containing nuclear protein	3	1	0.86	1.02	2	1	0.83	1.06
Pcolce	Procollagen C-proteinase enhancer protein	178	9	1.03	0.90	140	8	1.01	0.88
Pcx	pyruvate carboxylase isoform 2	4	3	1.13	0.98	1	1	0.85	1.66
Pcyox1	Prenylcysteine oxidase	10	3	1.19	0.93	5	3	1.07	1.23
Pcyt1a	choline-phosphate cytidylyltransferase A	3	2	0.88	0.74	ND	ND	ND	ND
Pcyt1b	choline-phosphate cytidylyltransferase B isoform 2	2	1	0.94	1.00	ND	ND	ND	ND
Pdap1	28 kDa heat- and acid-stable phosphoprotein	2	1	1.15	1.02	ND	ND	ND	ND
Pdcd4	Programmed cell death protein 4	33	8	0.93	0.99	29	6	0.87	1.03
Pdcd6	programmed cell death protein 6	2	1	1.58	1.38	ND	ND	ND	ND
Pdcd6ip	programmed cell death 6-interacting protein isoform 3	24	8	0.94	0.99	19	6	0.98	1.08
Pdcl3	phosducin-like protein 3	3	1	1.16	1.11	ND	ND	ND	ND
Pde6h	retinal cone rhodopsin-sensitive cGMP 3',5'-cyclic phosphodie	3	1	10.11	5.62	ND	ND	ND	ND
Pdha1	pyruvate dehydrogenase E1 component subunit alpha, somat	24	4	0.99	0.91	24	3	0.99	0.97
Pdha2	pyruvate dehydrogenase E1 component subunit alpha, testis-	1	1	ND	ND	ND	ND	ND	ND

Pdhb	pyruvate dehydrogenase E1 component subunit beta, mitocho	20	4	1.10	0.95	22	3	1.11	0.98
Pdia3	Protein disulfide-isomerase A3	149	15	0.90	0.82	102	13	0.91	0.77
Pdia4	protein disulfide-isomerase A4	70	9	0.87	0.89	64	7	0.89	0.91
Pdia6	protein disulfide-isomerase A6	79	9	0.90	0.90	47	6	0.90	0.94
Pdlim1	PDZ and LIM domain protein 1	90	7	1.00	0.86	78	8	0.97	0.85
Pdlim5	PDZ and LIM domain protein 5 isoform ENH1	30	5	0.85	1.03	25	4	0.97	0.94
Pds5a	Sister chromatid cohesion protein PDS5 homolog A	2	1	0.88	0.67	2	1	1.00	0.89
Pds5b	PDS5, regulator of cohesion maintenance, homolog B	5	2	1.08	1.07	1	1	1.27	1.44
Pdxdc1	pyridoxal-dependent decarboxylase domain-containing protei	14	4	1.05	1.05	9	4	0.94	0.87
Pdxk	pyridoxal kinase	11	3	0.97	1.07	12	2	0.87	0.83
Pebp1	phosphatidylethanolamine-binding protein 1	50	4	0.86	0.97	28	2	0.80	0.95
Peo1	twinkle protein, mitochondrial	1	1	ND	ND	ND	ND	ND	ND
Pepd	xaa-Pro dipeptidase	1	1	0.74	1.01	ND	ND	ND	ND
Pfdn1	Prefoldin subunit 1	4	1	0.96	1.01	ND	ND	ND	ND
Pfdn2	prefoldin subunit 2	10	2	1.20	1.24	11	2	1.15	1.16
Pfdn5	prefoldin subunit 5	2	1	ND	ND	3	1	0.92	0.46
Pfkl	6-phosphofructokinase, liver type	23	4	1.23	1.53	10	2	1.10	1.21
Pfkm	6-phosphofructokinase, muscle type	3	3	0.49	1.06	ND	ND	ND	ND
Pfn1	profilin-1	284	6	1.06	1.09	231	6	1.03	1.15
Pgam1	Phosphoglycerate mutase 1	33	4	0.86	0.91	56	3	1.14	1.16
Pgcp	plasma glutamate carboxypeptidase	3	2	0.92	0.94	ND	ND	ND	ND
Pgd	6-Phosphogluconate dehydrogenase, decarboxylating	68	4	1.11	1.16	68	4	1.15	1.22
Pgk1	phosphoglycerate kinase 1	33	7	1.02	0.98	49	5	0.99	1.01
Pgls	6-Phosphogluconolactonase	26	3	1.01	0.96	21	4	1.05	0.96
Pgm2	phosphoglucomutase-1	15	5	0.97	0.97	9	3	0.97	1.14
Pgp	phosphoglycolate phosphatase	1	1	1.10	0.98	ND	ND	ND	ND
Pgrmc1	membrane-associated progesterone receptor component 1	34	4	0.91	0.75	21	2	0.87	0.81
Pgrmc2	membrane-associated progesterone receptor component 2	8	2	0.94	0.79	9	2	0.89	0.86
Phb	prohibitin	15	4	0.90	0.93	13	4	0.88	0.93
Phb2	Prohibitin-2	18	3	0.87	0.80	4	2	0.89	0.94
Phgdh	D-3-phosphoglycerate dehydrogenase	68	7	1.02	0.99	51	5	1.00	0.95
Phpt1	14 kDa phosphohistidine phosphatase	3	1	3.00	2.91	ND	ND	ND	ND
Phyhip	phytanoyl-CoA hydroxylase-interacting protein	3	1	1.01	1.10	5	1	0.97	1.01
Picalm	phosphatidylinositol-binding clathrin assembly protein	6	1	0.46	0.51	4	1	0.91	0.66

Pigk	GPI-anchor transamidase isoform 1	2	1	0.69	0.77	ND	ND	ND	ND
Pin1-ps1	peptidylprolyl cis/trans isomerase, NIMA-interacting 1-like	8	1	1.59	1.59	6	1	0.90	1.16
Pip	Prolactin-inducible protein homolog	2	1	0.20	1.41	3	1	0.58	0.83
Pir	pirin	4	1	0.62	1.16	1	1	0.65	0.94
Pitpna	phosphatidylinositol transfer protein alpha isoform	11	2	0.96	1.02	4	2	1.02	0.88
Pitpnb	phosphatidylinositol transfer protein beta isoform	2	1	1.31	1.36	ND	ND	ND	ND
Pkm2	pyruvate kinase isozymes M1/M2	466	17	0.98	0.97	454	17	0.94	0.97
Pkp1	plakophilin-1	220	22	0.99	0.92	174	19	0.95	0.93
Pkp3	plakophilin-3 isoform 1	34	11	1.10	1.02	18	7	1.11	1.10
Pkp4	Plakophilin-4 isoform 2	6	1	0.88	0.90	2	1	0.89	0.96
Pla2g4a	cytosolic phospholipase A2	2	1	1.29	0.54	3	2	0.85	0.88
Pla2g4b	Cytosolic phospholipase A2 beta	2	1	1.00	1.04	1	1	0.81	0.83
Plaa	Phospholipase A-2-activating protein	1	1	1.13	1.60	ND	ND	ND	ND
Plac8	placenta-specific gene 8 protein	5	1	1.13	1.22	1	1	1.26	1.78
Plcd1	1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase d	35	7	0.98	1.12	15	3	0.90	1.25
Plec	plectin-1 isoform 1d	313	94	0.94	0.90	163	56	0.96	0.91
Plekha6	pleckstrin homology domain-containing family A member 6 isc	2	1	1.59	1.03	1	1	1.75	1.13
Plin3	Perilipin-3	13	4	0.89	1.04	10	4	0.91	1.01
Plod1	procollagen-lysine,2-oxoglutarate 5-dioxygenase 1	1	1	1.33	0.74	1	1	0.97	0.91
Plp2	proteolipid protein 2	1	1	0.90	0.99	ND	ND	ND	ND
Pls3	plastin-3	49	7	0.87	0.97	22	4	0.93	1.04
Plxnb2	plexin B2	10	5	0.92	1.01	2	2	0.75	0.90
Pmf1	Polyamine-modulated factor 1	1	1	2.05	1.88	ND	ND	ND	ND
Pmm2	phosphomannomutase 2	2	1	1.06	1.02	4	2	0.96	1.09
Pmpcb	mitochondrial-processing peptidase subunit beta	1	1	1.58	0.84	ND	ND	ND	ND
Pnn	Pinin	1	1	0.91	0.98	ND	ND	ND	ND
Podn	podocan	1	1	1.18	1.38	ND	ND	ND	ND
Pof1b	protein POF1B	33	6	0.88	1.03	34	4	0.94	1.04
Polr2e	DNA-directed RNA polymerases I, II, and III subunit RPABC1	2	1	0.87	0.84	3	1	1.05	0.54
Polr2h	DNA-directed RNA polymerases I, II, and III subunit RPABC3	1	1	1.15	0.88	ND	ND	ND	ND
Pon3	serum paraoxonase/lactonase 3	1	1	1.12	1.09	ND	ND	ND	ND
Por	NADPH--cytochrome P450 reductase	17	5	1.01	0.89	14	5	0.95	0.94
Postn	periostin	2	1	1.10	3.47	ND	ND	ND	ND
Pou5f2	POU domain, class 5, transcription factor 2	1	1	5.86	2.61	ND	ND	ND	ND

Ppa1	inorganic pyrophosphatase	56	6	0.99	0.92	31	4	0.99	0.94
Ppap2b	lipid phosphate phosphohydrolase 3	2	1	1.18	1.04	ND	ND	ND	ND
Ppfia4	protein tyrosine phosphatase, receptor type, f polypeptide (PT	1	1	0.70	0.80	ND	ND	ND	ND
Ppfibp2	liprin-beta-2 isoform 1	2	2	0.88	0.93	2	2	0.86	1.24
Ppia	peptidyl-prolyl cis-trans isomerase A	316	6	1.08	1.05	266	6	1.11	1.06
Ppib	peptidyl-prolyl cis-trans isomerase B	50	4	0.97	0.67	45	4	0.98	0.71
Ppic	peptidyl-prolyl cis-trans isomerase C	2	1	1.02	0.78	5	1	1.03	0.80
Ppie	Peptidyl-prolyl cis-trans isomerase E	1	1	0.88	0.85	ND	ND	ND	ND
Ppl	Periplakin	472	45	0.87	0.89	364	34	0.89	0.91
Ppm1b	protein phosphatase 1B isoform 3	2	1	1.05	1.09	ND	ND	ND	ND
Ppm1g	protein phosphatase 1G	1	1	0.91	0.84	ND	ND	ND	ND
Ppme1	protein phosphatase methylesterase 1	1	1	0.84	1.04	ND	ND	ND	ND
Ppp1ca	Serine/threonine-protein phosphatase PP1-alpha catalytic sub	18	4	0.97	1.03	17	4	1.00	0.92
Ppp1cb	Serine/threonine-protein phosphatase PP1-beta catalytic subu	14	4	0.86	1.03	ND	ND	ND	ND
Ppp1r12a	protein phosphatase 1 regulatory subunit 12A	1	1	1.15	1.58	ND	ND	ND	ND
Ppp1r7	Protein phosphatase 1 regulatory subunit 7	7	2	0.92	1.13	7	3	1.11	0.92
Ppp2ca	serine/threonine-protein phosphatase 2A catalytic subunit alp	47	6	0.85	1.46	ND	ND	ND	ND
Ppp2cb	serine/threonine-protein phosphatase 2A catalytic subunit bet	47	6	2.32	1.18	ND	ND	ND	ND
Ppp2r1a	serine/threonine-protein phosphatase 2A 65 kDa regulatory su	40	10	1.06	1.07	25	7	1.06	0.90
Ppp2r4	serine/threonine-protein phosphatase 2A regulatory subunit B	14	3	0.88	0.91	5	3	0.84	0.92
Ppp2r5b	protein phosphatase 2, regulatory subunit B (B56), beta isofor	7	1	1.09	1.19	3	1	1.16	1.04
Ppp2r5e	serine/threonine-protein phosphatase 2A 56 kDa regulatory su	8	2	1.75	1.53	3	1	1.79	2.42
Ppp3ca	serine/threonine-protein phosphatase 2B catalytic subunit alp	9	3	0.81	0.91	ND	ND	ND	ND
Ppp3cc	serine/threonine-protein phosphatase 2B catalytic subunit gar	4	1	0.83	0.92	ND	ND	ND	ND
Ppp3r1	calcineurin subunit B type 1	2	1	1.06	0.98	1	1	0.83	0.76
Ppp4c	serine/threonine-protein phosphatase 4 catalytic subunit	27	2	1.01	0.55	16	2	0.99	0.72
Ppp5c	serine/threonine-protein phosphatase 5	7	1	0.93	1.21	4	1	0.91	1.08
Prdx1	peroxiredoxin-1	95	8	0.87	0.97	77	6	0.84	0.93
Prdx2	Peroxiredoxin-2	75	6	0.93	0.95	63	4	1.00	0.95
Prdx3	thioredoxin-dependent peroxide reductase, mitochondrial	8	3	0.99	0.57	9	2	0.87	0.61
Prdx5	peroxiredoxin-5, mitochondrial	152	5	1.08	1.17	161	5	1.06	1.23
Prdx6	peroxiredoxin-6	256	10	0.87	0.97	235	10	0.87	1.00
Prdx6-rs2	PREDICTED: peroxiredoxin 6, related sequence 2	47	1	1.28	1.16	55	1	1.21	1.32
Prelp	prolargin	103	6	1.21	1.21	94	6	1.23	1.28

Prep	prolyl endopeptidase	47	9	1.05	1.16	32	7	1.03	1.01
Prkacb	cAMP-dependent protein kinase catalytic subunit beta isoform	1	1	0.89	0.88	ND	ND	ND	ND
Prkar1a	cAMP-dependent protein kinase type I-alpha regulatory subur	4	1	1.18	1.01	10	2	0.99	1.02
Prkar2a	cAMP-dependent protein kinase type II-alpha regulatory subu	1	1	0.87	1.00	ND	ND	ND	ND
Prkcsh	glucosidase 2 subunit beta	39	5	1.10	1.04	20	4	1.19	1.20
Prmt1	protein arginine N-methyltransferase 1	8	2	1.03	0.89	7	2	1.07	0.97
Prmt5	protein arginine N-methyltransferase 5	2	1	1.16	1.05	3	1	1.32	1.21
Prosc	proline synthetase co-transcribed bacterial homolog protein is	2	1	0.77	0.78	ND	ND	ND	ND
Prpf19	pre-mRNA-processing factor 19	3	2	0.64	0.85	2	1	1.25	0.02
Prpf38a	pre-mRNA-splicing factor 38A	1	1	1.34	1.17	ND	ND	ND	ND
Prpf40a	pre-mRNA-processing factor 40 homolog A	1	1	0.68	0.72	ND	ND	ND	ND
Prpf6	pre-mRNA-processing factor 6	1	1	1.24	1.37	ND	ND	ND	ND
Prpf8	Pre-mRNA-processing-splicing factor 8	4	2	5.95	5.82	2	1	1.30	1.35
Prps1	Ribose-phosphate pyrophosphokinase 1	7	1	1.26	1.40	ND	ND	ND	ND
Prps2	Ribose-phosphate pyrophosphokinase 2	10	2	1.08	1.25	ND	ND	ND	ND
Prrc1	Protein PRRC1	1	1	0.93	1.14	ND	ND	ND	ND
Prrc2a	large proline-rich protein BAT2	1	1	ND	ND	1	1	1.01	16.74
Prss1	Protease, serine, 1	4	2	0.73	1.00	ND	ND	ND	ND
Prune	protein prune homolog	2	1	0.89	0.86	4	2	1.00	0.80
Psca	prostate stem cell antigen	9	2	0.87	1.42	ND	ND	ND	ND
Psg16	Pregnancy specific glycoprotein 16	1	1	ND	ND	ND	ND	ND	ND
Psma1	proteasome subunit alpha type-1	3	1	1.22	1.66	ND	ND	ND	ND
Psma2	Proteasome subunit alpha type-2	10	3	0.95	0.90	8	2	1.20	0.94
Psma3	proteasome subunit alpha type-3	5	2	0.94	0.98	3	1	0.95	1.11
Psma4	proteasome subunit alpha type-4	9	4	1.27	1.10	11	3	0.89	0.99
Psma5	proteasome subunit alpha type-5	21	4	0.81	0.87	19	4	0.77	0.86
Psma6	proteasome subunit alpha type-6	25	3	0.92	0.97	18	3	1.05	0.99
Psma7	proteasome subunit alpha type-7	50	3	0.92	0.96	45	2	0.90	0.99
Psmb1	proteasome subunit beta type-1	31	5	1.13	1.08	36	4	1.09	1.06
Psmb2	proteasome subunit beta type-2	46	2	1.04	1.02	31	2	1.03	1.09
Psmb3	proteasome subunit beta type-3	13	3	0.97	0.91	25	3	0.92	0.91
Psmb4	proteasome subunit beta type-4	8	2	0.99	1.08	5	2	0.82	0.92
Psmb5	proteasome beta 5 subunit	21	3	1.17	1.32	11	2	1.38	1.35
Psmb6	proteasome subunit beta type-6	6	2	0.12	0.31	3	1	0.87	1.06

Psmb8	Proteasome subunit beta type-8	4	2	1.26	1.16	5	2	1.10	1.16
Psmc1	26S protease regulatory subunit 4	17	4	0.95	0.84	12	3	0.93	0.91
Psmc2	26S protease regulatory subunit 7	21	6	1.09	0.94	21	4	1.01	1.20
Psmc3	26S protease regulatory subunit 6A	32	6	1.02	0.84	28	5	0.98	0.97
Psmc4	26S Protease regulatory subunit 6B	3	1	0.95	0.63	ND	ND	ND	ND
Psmc5	26S protease regulatory subunit 8	9	5	0.83	1.29	6	2	1.26	1.14
Psmc6	26S protease regulatory subunit S10B	28	4	1.16	1.11	33	3	1.11	1.06
Psmd1	26S proteasome non-ATPase regulatory subunit 1	42	6	1.09	1.12	20	5	1.15	1.02
Psmd11	26S proteasome non-ATPase regulatory subunit 11	26	5	0.95	1.11	26	4	0.88	0.96
Psmd12	26S proteasome non-ATPase regulatory subunit 12	11	3	0.89	0.94	9	2	0.92	1.01
Psmd13	26S proteasome non-ATPase regulatory subunit 13	3	2	2.23	1.93	6	2	1.44	0.80
Psmd14	26S proteasome non-ATPase regulatory subunit 14	5	2	0.90	0.92	5	3	1.29	1.23
Psmd2	26S proteasome non-ATPase regulatory subunit 2	23	5	0.86	1.06	4	1	0.73	0.88
Psmd3	26S proteasome non-ATPase regulatory subunit 3	15	6	1.07	1.11	7	3	1.08	1.15
Psmd4	26S proteasome non-ATPase regulatory subunit 4	5	1	0.13	0.92	2	1	1.02	1.01
Psmd5	26S proteasome non-ATPase regulatory subunit 5	5	4	0.90	1.24	1	1	1.19	1.27
Psmd6	26S proteasome non-ATPase regulatory subunit 6	2	1	1.25	1.23	ND	ND	ND	ND
Psmd8	26S proteasome non-ATPase regulatory subunit 8	1	1	0.82	0.98	ND	ND	ND	ND
Psmd9	26S proteasome non-ATPase regulatory subunit 9	4	2	1.17	1.17	3	1	1.30	1.17
Psme1	proteasome activator complex subunit 1	33	2	0.87	0.88	19	2	0.79	0.85
Psme2	proteasome activator complex subunit 2 isoform 2	16	2	0.89	1.02	10	2	0.97	1.00
Psme3	proteasome activator complex subunit 3	2	1	ND	ND	5	2	1.00	2.29
Psmg2	proteasome assembly chaperone 2	6	1	ND	ND	7	1	0.00	0.00
Pspc1	paraspeckle component 1	1	1	0.92	0.97	ND	ND	ND	ND
Ptbp1	Polypyrimidine tract-binding protein 1 isoform 2	22	2	1.36	1.17	16	1	0.93	0.83
Ptgfrn	prostaglandin F2 receptor negative regulator	1	1	1.12	1.09	1	1	1.24	1.27
Ptgis	prostaglandin I2 synthase	3	1	1.55	0.09	2	1	1.04	1.14
Ptgr1	Prostaglandin reductase 1	138	7	1.19	1.20	124	7	1.18	1.16
Ptk2	focal adhesion kinase 1 isoform 1	1	1	ND	ND	ND	ND	ND	ND
Ptk7	tyrosine-protein kinase-like 7	3	1	0.90	1.42	1	1	0.99	3.12
Ptms	parathymosin	2	1	0.94	1.94	ND	ND	ND	ND
Ptpn1	Tyrosine-protein phosphatase non-receptor type 1	5	2	0.86	0.75	2	1	1.33	1.03
Ptpn6	Tyrosine-protein phosphatase non-receptor type 6 isoform a	2	1	0.89	1.09	ND	ND	ND	ND
Ptrf	polymerase I and transcript release factor	34	3	0.78	0.85	24	3	1.09	0.91

Puf60	poly(U)-binding-splicing factor PUF60 isoform c	4	3	1.02	0.94	2	2	0.77	0.71
Purb	transcriptional activator protein Pur-beta	17	5	1.12	1.24	13	3	0.89	1.01
Pvrl4	poliovirus receptor-related protein 4 isoform b	8	4	0.91	0.93	8	3	1.08	0.88
Pycard	Apoptosis-associated speck-like protein containing a CARD	32	4	1.05	1.07	13	3	1.05	1.25
Pycrl	Pyrroline-5-carboxylate reductase 3	2	1	1.07	1.11	ND	ND	ND	ND
Pygb	glycogen phosphorylase, brain form	38	7	1.14	1.37	27	3	1.11	1.36
Pygl	glycogen phosphorylase, liver form	16	10	1.01	1.19	7	5	1.07	1.28
Qars	glutaminyl-tRNA synthetase isoform 1	7	3	0.85	1.03	ND	ND	ND	ND
Qars	glutaminyl-tRNA synthetase isoform 2	2	1	0.99	1.10	ND	ND	ND	ND
Qdpr	dihydropteridine reductase	7	3	0.96	1.13	1	1	0.66	0.91
Qk	protein quaking isoform 2	1	1	1.06	1.26	ND	ND	ND	ND
Qrich1	Glutamine-rich protein 1	1	1	1.24	0.81	ND	ND	ND	ND
Qsox1	Sulfhydryl oxidase 1 isoform b	1	1	0.95	0.73	ND	ND	ND	ND
Rab1	ras-related protein Rab-1A	83	6	0.87	0.75	68	6	0.86	0.79
Rab10	ras-related protein Rab-10	37	3	0.99	0.75	40	3	0.95	0.76
Rab11b	ras-related protein Rab-11B	51	8	0.95	0.93	25	5	0.98	0.91
Rab14	ras-related protein Rab-14	46	6	0.92	1.13	31	4	0.99	1.34
Rab18	ras-related protein Rab-18	15	3	1.15	1.06	12	2	0.99	0.97
Rab1b	ras-related protein Rab-1B	58	6	1.18	0.98	50	6	1.04	0.84
Rab25	ras-related protein Rab-25	19	4	1.14	1.08	3	2	0.98	0.97
Rab2a	Ras-related protein Rab-2A	39	4	1.09	1.07	26	3	0.99	1.01
Rab3d	Ras-related protein Rab-3D	19	5	1.16	1.07	20	3	1.18	1.04
Rab5a	Ras-related protein Rab-5A	26	3	1.44	2.41	19	4	1.17	1.09
Rab5c	Ras-related protein Rab-5C	77	7	1.06	1.02	46	6	1.17	1.06
Rab6	Ras-related protein Rab-6A isoform 2	15	3	1.17	2.61	16	2	0.97	1.05
Rab7	Ras-related protein Rab-7a	65	5	0.93	0.87	57	5	0.93	0.87
Rab8a	ras-related protein Rab-8A	25	3	1.09	0.63	30	3	1.04	0.72
Rabggta	geranylgeranyl transferase type-2 subunit alpha	3	1	0.78	0.80			ND	ND
Rac1	ras-related C3 botulinum toxin substrate 1	34	5	1.24	1.04	21	4	1.29	1.11
Rad21	double-strand-break repair protein rad21 homolog	2	1	0.96	0.98	ND	ND	ND	ND
Rad23b	UV excision repair protein RAD23 homolog B	16	2	1.02	0.69	11	3	0.96	0.71
Rae1	mRNA export factor	2	1	0.91	1.10	ND	ND	ND	ND
Ralb	Ras-related protein Ral-B	2	2	0.75	0.73	ND	ND	ND	ND
Raly	RNA-binding protein Raly short isoform	10	2	1.42	1.30	1	1	0.00	0.00

Ranbp1	Ran-specific GTPase-activating protein	10	2	0.87	0.88	3	1	0.88	0.81
Ranbp3	ran-binding protein 3	1	1	0.94	0.84	ND	ND	ND	ND
Ranbp6	ran-binding protein 6	2	1	0.98	0.59	ND	ND	ND	ND
Rangap1	ran GTPase-activating protein 1	3	1	0.83	0.83	6	1	0.89	0.90
Rap2b	Ras-related protein Rap-2b	1	1	0.97	1.05	ND	ND	ND	ND
Raph1	Ras association (RalGDS/AF-6) and pleckstrin homology dom	1	1	ND	ND	ND	ND	ND	ND
Rars	arginyl-tRNA synthetase, cytoplasmic	4	4	0.95	1.35	2	2	0.99	1.16
Rasa1	RAS p21 protein activator 1	3	1	1.07	1.15	2	1	1.01	0.92
Rbbp7	Histone-binding protein RBBP7	23	3	0.81	0.85	11	3	0.79	0.86
Rbm12	RNA-binding protein 12	1	1	1.01	1.07	ND	ND	ND	ND
Rbm14	RNA-binding protein 14	7	4	1.18	1.06	4	2	1.17	1.22
Rbm25	RNA-binding protein 25	1	1	0.96	0.96	ND	ND	ND	ND
Rbm3	putative RNA-binding protein 3 isoform 2	2	1	1.05	0.95	ND	ND	ND	ND
Rbm39	RNA-binding protein 39	3	2	1.02	0.91	ND	ND	ND	ND
Rbm47	RNA-binding protein 47	3	1	2.57	0.41	4	2	0.37	0.85
Rbm8a	RNA-binding protein 8A isoform b	3	1	0.96	0.95	2	1	1.88	1.84
Rbmxrt	heterogeneous nuclear ribonucleoprotein G	9	2	0.92	0.67	5	1	0.92	0.76
Rbp2	retinol-binding protein 2	10	2	1.06	1.14	2	1	1.09	1.20
Rcn1	reticulocalbin-1	12	3	0.93	1.03	12	3	1.05	1.07
Rcn2	Reticulocalbin-2	11	3	0.99	0.82	10	3	0.83	1.03
Rcn3	reticulocalbin-3	20	4	1.27	1.83	11	3	1.25	1.51
Rdbp	Negative elongation factor E	3	1	1.55	1.91	ND	ND	ND	ND
Rdx	Radixin isoform a	54	8	0.71	0.86	50	8	0.72	0.95
Reck	reversion-inducing cysteine-rich protein with Kazal motifs	2	1	ND	ND	ND	ND	ND	ND
Reep4	receptor expression-enhancing protein 4	5	1	0.13	0.19	3	1	2.46	0.54
Reep5	Receptor expression-enhancing protein 5	2	1	1.37	1.38	ND	ND	ND	ND
Rer1	Protein RER1	4	1	1.00	1.25	3	1	1.18	1.07
Rfc4	replication factor C subunit 4	2	1	1.18	0.99	ND	ND	ND	ND
Rheb	GTP-binding protein Rheb	4	1	1.17	1.02	ND	ND	ND	ND
Rhobtb2	rho-related BTB domain-containing protein 2	7	1	2.21	1.97	6	1	2.39	2.14
Rhoc	Rho-related GTP-binding protein RhoC	7	1	1.19	1.22	4	1	1.03	1.22
Rhog	rho-related GTP-binding protein RhoG	14	3	1.02	1.06	8	3	1.39	0.98
Ribc1	RIB43A-like with coiled-coils protein 1	1	1	ND	ND	ND	ND	ND	ND
Rnf126	ring finger protein 126	1	1	1.66	1.61	ND	ND	ND	ND

Rnf39	Ring finger protein 39	7	1	0.92	1.16	6	1	0.88	1.44
Rnh1	ribonuclease inhibitor isoform a	74	8	1.02	1.08	71	8	1.16	1.13
Rnpep	aminopeptidase B isoform 1	45	7	1.22	1.25	43	7	1.18	1.32
Rnps1	RNA-binding protein with serine-rich domain 1 isoform 2	5	2	1.03	0.91	ND	ND	ND	ND
Rock2	Rho-associated protein kinase 2	7	2	1.10	0.87	2	2	1.09	0.99
Rod1	regulator of differentiation 1 isoform 2	3	1	ND	ND	3	1	0.46	0.42
Rpa1	replication protein A 70 kDa DNA-binding subunit isoform 2	4	2	1.01	1.75	ND	ND	ND	ND
Rpe	ribulose-phosphate 3-epimerase	2	1	2.35	4.50	1	1	1.63	2.17
Rpia	ribose-5-phosphate isomerase	5	1	0.78	0.80	ND	ND	ND	ND
Rpl11	60S Ribosomal protein L11	25	2	0.83	0.89	24	2	0.84	0.94
Rpl12	60S ribosomal protein L12	66	4	1.36	1.09	52	3	1.36	1.09
Rpl13a	60S ribosomal protein L13a	21	3	1.09	1.09	16	4	1.60	1.69
Rpl14	60S Ribosomal protein L14	48	5	0.89	0.99	ND	ND	ND	ND
Rpl18	60S ribosomal protein L18	106	3	1.04	1.02	84	3	1.04	1.00
Rpl18a	60S ribosomal protein L18a	56	2	1.98	1.61	29	2	1.94	1.57
Rpl19	60S ribosomal protein L19 isoform 2	39	2	1.02	0.87	30	2	1.06	0.91
Rpl23	60S ribosomal protein L23	60	5	1.19	1.20	52	4	1.15	1.16
Rpl26	60S ribosomal protein L26	7	1	0.99	0.93	6	1	0.98	1.02
Rpl4	60S ribosomal protein L4	64	6	0.95	0.94	64	4	0.90	0.91
Rpl7	60S ribosomal protein L7	11	4	0.92	0.88	17	4	0.95	1.03
Rpl8	60S ribosomal protein L8	12	1	1.10	0.91	14	3	1.02	0.96
Rplp0	60S acidic ribosomal protein P0	85	8	0.87	0.86	75	7	0.87	0.91
Rplp1	60S acidic ribosomal protein P1	35	2	1.08	0.92	48	2	0.93	0.98
Rplp2	60S acidic ribosomal protein P2	71	4	0.91	0.90	57	4	0.95	0.93
Rpn1	dolichyl-diphosphooligosaccharide--protein glycosyltransferas	19	7	0.97	0.94	14	5	0.97	0.96
Rpn2	dolichyl-diphosphooligosaccharide--protein glycosyltransferas	23	5	0.91	0.88	20	3	1.06	0.98
Rprd1b	regulation of nuclear pre-mRNA domain-containing protein 1B	2	1	0.77	0.89	3	1	0.96	1.12
Rps10	40S Ribosomal protein S10	26	2	1.03	0.99	22	2	1.07	0.94
Rps14	40S ribosomal protein S14	64	3	1.07	1.01	43	3	1.06	1.00
Rps15	40S ribosomal protein S15	13	1	1.03	0.84	12	1	1.35	0.97
Rps17	40S ribosomal protein S17	31	3	1.24	1.12	29	3	1.17	1.09
Rps19	40S ribosomal protein S19	39	3	1.12	1.11	28	3	1.14	1.20
Rps20	40S Ribosomal protein S20	1	1	1.37	1.49	1	1	1.49	1.51
Rps21	40S ribosomal protein S21	11	2	1.17	1.03	ND	ND	ND	ND

Rps24	40S ribosomal protein S24 isoform 1	33	2	0.85	0.64	11	2	0.87	0.81
Rps27l	40S Ribosomal protein S27-like protein	16	2	0.94	1.01	10	2	1.11	1.06
Rps3	40S ribosomal protein S3	155	11	1.02	0.87	161	9	1.03	0.92
Rps4x	40S ribosomal protein S4, X isoform	60	9	0.99	0.89	30	5	1.27	0.91
Rps5	40S ribosomal protein S5	21	4	1.37	1.30	16	3	1.31	1.33
Rps6ka1	Ribosomal protein S6 kinase alpha-1	2	1	0.76	1.22	ND	ND	ND	ND
Rps6ka3	ribosomal protein S6 kinase alpha-3	11	3	0.85	0.95	6	2	0.96	0.90
Rps6ka4	ribosomal protein S6 kinase alpha-4	1	1	0.99	1.08	ND	ND	ND	ND
Rps9	40S ribosomal protein S9	28	4	1.16	1.13	20	3	1.18	1.12
Rras2	Ras-related protein R-Ras2	3	1	1.16	0.85	3	1	0.69	1.08
Rrbp1	Ribosome-binding protein 1 isoform a	27	9	1.16	1.23	8	4	1.14	1.13
Rtcd1	RNA 3'-terminal phosphate cyclase	1	1	1.36	1.15	ND	ND	ND	ND
Rtkn	rhotekin isoform b	1	1	1.03	1.06	ND	ND	ND	ND
Rtn4	reticulon-4 isoform B1	15	3	1.23	1.13	21	4	1.02	0.93
Rttn	rotatin	5	1	0.81	0.91	6	1	0.83	0.97
Rufy4	RUN and FYVE domain-containing protein 4 isoform 2	1	1	ND	ND	ND	ND	ND	ND
Ruvbl1	ruvB-like 1	21	4	1.07	1.03	11	2	1.34	0.98
Ruvbl2	ruvB-like 2	13	5	0.90	0.94	13	4	0.94	0.85
S100a10	protein S100-A10	3	2	1.16	1.11	1	1	1.21	1.01
S100a11	protein S100-A11	52	3	0.84	0.78	84	3	0.92	0.72
S100a13	protein S100-A13	7	1	1.10	1.18	4	1	1.04	1.10
S100a14	protein S100-A14 isoform a	10	3	1.00	0.93	9	2	0.96	0.95
S100a16	S100 calcium binding protein A16	19	1	1.04	0.78	10	1	1.00	0.91
S100a6	protein S100-A6	82	2	1.13	1.10	57	2	0.99	1.02
Sacm1l	Phosphatidylinositide phosphatase SAC1	2	1	1.03	0.89	2	1	0.91	0.90
Sae1	SUMO-activating enzyme subunit 1	3	1	1.57	1.37	2	1	0.09	0.16
Safb	scaffold attachment factor B	1	1	0.97	1.04	ND	ND	ND	ND
Samhd1	SAM domain and HD domain-containing protein 1 isoform 2	1	1	0.92	1.00	ND	ND	ND	ND
Samm50	sorting and assembly machinery component 50 homolog	1	1	1.09	1.18	ND	ND	ND	ND
Sar1b	GTP-binding protein SAR1b	2	1	0.84	0.83	ND	ND	ND	ND
Sars	seryl-tRNA synthetase, cytoplasmic	6	2	1.07	1.15	12	3	1.03	1.01
Sart3	squamous cell carcinoma antigen recognized by T-cells 3	2	1	1.05	1.02	3	1	1.01	1.04
Sbds	ribosome maturation protein SBDS	2	1	0.87	0.85	ND	ND	ND	ND
Scaf4	Splicing factor, arginine/serine-rich 15	5	1	0.99	1.11	ND	ND	ND	ND

Scamp1	secretory carrier-associated membrane protein 1	6	1	1.05	0.98	7	1	1.06	0.98
Scamp2	Secretory carrier-associated membrane protein 2	2	1	1.13	0.80	ND	ND	ND	ND
Scel	sciellin	15	6	0.92	0.97	11	6	0.93	0.87
Scfd1	sec1 family domain-containing protein 1	10	2	1.06	2.50	ND	ND	ND	ND
Scin	adseverin isoform 1	114	13	0.94	0.95	74	10	0.98	1.02
Sdc1	syndecan-1	6	1	0.86	0.90	6	2	0.88	0.87
Sdha	succinate dehydrogenase [ubiquinone] flavoprotein subunit, m	5	1	0.95	1.03	3	1	0.93	1.12
Sdhb	succinate dehydrogenase [ubiquinone] iron-sulfur subunit, mit	1	1	0.98	0.62	ND	ND	ND	ND
Sec11a	signal peptidase complex catalytic subunit SEC11A	1	1	1.16	1.13	3	2	1.18	1.16
Sec13	protein SEC13 homolog	6	2	1.00	0.97	5	2	1.10	6.88
Sec16a	SEC16 homolog A	2	2	0.89	1.16	1	1	1.47	0.94
Sec22b	vesicle-trafficking protein SEC22b	14	2	1.06	0.90	8	3	1.02	1.21
Sec23a	protein transport protein Sec23A	6	4	1.30	1.25	3	2	1.35	1.39
Sec24b	Sec24 related gene family, member B	2	1	ND	ND	ND	ND	ND	ND
Sec24c	Sec24 related gene family, member C isoform 2	3	2	1.13	1.15	1	1	ND	ND
Sec31a	protein transport protein Sec31A	3	3	0.95	1.03	ND	ND	ND	ND
Sema4d	semaphorin-4D	1	1	1.93	1.69	ND	ND	ND	ND
Serbp1	Plasminogen activator inhibitor 1 RNA-binding protein isoform	20	1	0.80	0.98	12	1	0.80	0.93
Serpina1d	alpha-1-antitrypsin 1-4	55	4	1.02	0.61	52	3	1.02	0.64
Serpina1e	alpha-1-antitrypsin 1-5	14	3	1.31	0.92	13	2	1.41	1.11
Serpina3k	Serine protease inhibitor A3K	220	9	1.13	0.71	229	10	1.15	0.67
Serpina3n	Serine protease inhibitor A3N	55	4	1.17	0.91	41	3	1.02	0.83
Serpinb11	Serpin B11	1	1	1.30	1.19	ND	ND	ND	ND
Serpinb1a	Leukocyte elastase inhibitor A	5	1	0.78	0.78	6	1	0.78	0.85
Serpinb5	serpin B5	121	12	0.91	0.93	87	8	0.94	0.90
Serpinb6a	serpin B6 isoform b	25	5	0.93	0.98	24	6	0.90	1.10
Serpinb8	Serpin B8 isoform 1	4	1	1.90	1.73	ND	ND	ND	ND
Serpinb8	serpin B8 isoform 2	3	1	0.96	0.86	ND	ND	ND	ND
Serpinb9	serine (or cysteine) proteinase inhibitor, clade B, member 9	1	1	0.86	1.02	1	1	1.05	1.06
Serpinc1	antithrombin-III	6	1	0.78	0.51	3	2	1.32	1.05
Serpinf1	Pigment epithelium-derived factor	103	8	0.92	0.84	88	7	0.95	0.79
Serpinh1	Serpin H1	45	2	0.83	1.06	47	2	0.93	1.08
Sf1	Splicing factor 1 isoform 2	4	1	1.05	0.93	ND	ND	ND	ND
Sf3a1	Splicing factor 3 subunit 1	2	1	0.98	0.92	2	1	1.08	1.03

Sf3b1	Splicing factor 3B subunit 1	7	3	0.94	1.12	5	1	0.58	0.04
Sf3b2	splicing factor 3b, subunit 2	1	1	0.99	0.91	1	1	0.85	0.80
Sf3b3	splicing factor 3B subunit 3	25	6	0.93	0.93	25	5	0.94	0.89
Sf3b4	splicing factor 3B subunit 4	2	1	0.72	0.87	ND	ND	ND	ND
Sfn	14-3-3 Protein sigma	239	8	0.84	0.89	178	5	0.80	0.86
Sfxn3	Sideroflexin-3	21	4	1.07	1.04	23	4	1.05	1.03
Sgpl1	sphingosine-1-phosphate lyase 1	7	1	1.00	0.94	8	2	1.13	1.16
Sgta	small glutamine-rich tetratricopeptide repeat-containing protei	9	3	1.10	1.33	3	2	1.20	1.20
Sh3bgrl3	SH3 domain-binding glutamic acid-rich-like protein 3	25	2	0.82	0.86	14	2	0.75	0.81
Sh3bp1	SH3 domain-binding protein 1	8	2	0.64	0.43	6	1	1.00	0.73
Sh3gl1	endophilin-A2	12	2	1.08	0.96	ND	ND	ND	ND
Sh3gl2	endophilin-A1	21	5	1.14	0.92	12	3	0.87	0.98
Sh3glb1	endophilin-B1	1	1	ND	ND	6	1	0.91	0.30
Shmt2	serine hydroxymethyltransferase 2 (mitochondrial)	4	2	1.40	1.36	ND	ND	ND	ND
Sirt2	NAD-dependent deacetylase sirtuin-2 isoform 2	1	1	1.08	1.01	ND	ND	ND	ND
Sirt5	NAD-dependent deacetylase sirtuin-5	1	1	1.06	1.15	ND	ND	ND	ND
Skp1a	S-phase kinase-associated protein 1	1	1	1.41	0.88	ND	ND	ND	ND
Slc12a1	Solute carrier family 12 member 1 isoform A	1	1	ND	ND	1	1	0.00	0.00
Slc12a2	Solute carrier family 12 member 2	2	2	0.80	0.96	3	2	1.08	7.88
Slc25a11	mitochondrial 2-oxoglutarate/malate carrier protein	3	2	1.12	0.86	2	1	0.89	1.33
Slc25a12	calcium-binding mitochondrial carrier protein Aralar1	3	2	1.03	0.99	4	2	0.85	1.09
Slc25a13	calcium-binding mitochondrial carrier protein Aralar2	2	2	0.95	0.99	ND	ND	ND	ND
Slc25a24	calcium-binding mitochondrial carrier protein SCaMC-1	3	2	0.12	0.19	2	2	0.77	0.77
Slc25a35	solute carrier family 25 member 35	1	1	0.90	1.06	ND	ND	ND	ND
Slc25a4	ADP/ATP translocase 1	140	10	1.09	0.98	108	8	1.07	1.02
Slc25a5	ADP/ATP translocase 2	154	9	0.98	0.95	131	7	0.96	0.96
Slc27a4	long-chain fatty acid transport protein 4	1	1	1.18	1.40	ND	ND	ND	ND
Slc2a1	Solute carrier family 2, facilitated glucose transporter member	1	1	1.14	0.92	ND	ND	ND	ND
Slc30a7	Zinc transporter 7	1	1	1.12	1.04	ND	ND	ND	ND
Slc3a2	4F2 cell-surface antigen heavy chain isoform b	2	1	0.92	0.66	ND	ND	ND	ND
Slc44a2	choline transporter-like protein 2	3	1	1.08	1.07	ND	ND	ND	ND
Slc4a4	Electrogenic sodium bicarbonate cotransporter 1 isoform a	1	1	0.87	0.99	ND	ND	ND	ND
Slc9a3r1	na(+)/H(+) exchange regulatory cofactor NHE-RF1	6	2	0.97	1.04	ND	ND	ND	ND
Slk	STE20-like serine/threonine-protein kinase isoform 2	4	2	1.18	1.14	1	1	0.01	2.10

Smad3	mothers against decapentaplegic homolog 3	1	1	0.97	0.99	ND	ND	ND	ND
Smarca2	probable global transcription activator SNF2L2 isoform 2	1	1	1.07	1.09	ND	ND	ND	ND
Smarca4	transcription activator BRG1	8	2	1.09	1.10	3	2	1.12	0.83
Smarca5	SWI/SNF-related matrix-associated actin-dependent regulator	6	2	0.85	0.79	3	1	1.01	0.94
Smarcb1	SWI/SNF-related matrix-associated actin-dependent regulator	7	2	1.04	1.04	ND	ND	ND	ND
Smarcc2	SWI/SNF complex subunit SMARCC2 isoform 3	1	1	1.16	0.92	3	1	1.19	1.01
Smarcd2	SWI/SNF-related matrix-associated actin-dependent regulator	3	2	0.90	1.02	ND	ND	ND	ND
Smc1a	structural maintenance of chromosomes protein 1A	1	1	ND	ND	ND	ND	ND	ND
Smc3	structural maintenance of chromosomes protein 3	6	3	0.87	1.29	2	1	0.87	0.69
Smchd1	Structural maintenance of chromosomes flexible hinge domain	2	1	0.85	0.88	3	1	0.87	0.91
Snap23	synaptosomal-associated protein 23	3	1	0.69	0.97	ND	ND	ND	ND
Snap47	synaptosomal-associated protein 47	2	1	1.10	1.03	ND	ND	ND	ND
Sncg	synuclein, gamma	2	1	0.88	0.86	ND	ND	ND	ND
Snd1	staphylococcal nuclease domain-containing protein 1	20	7	0.99	0.93	15	4	0.94	0.89
Snf8	Vacuolar-sorting protein SNF8	3	1	1.03	1.10	3	1	1.16	1.15
Snrnp200	U5 snRNP-specific protein, 200 kDa	19	5	1.19	1.13	6	3	1.10	1.23
Snrnp70	U1 small nuclear ribonucleoprotein 70 kDa	2	1	0.88	0.92	ND	ND	ND	ND
Snrpa	U1 small nuclear ribonucleoprotein A	10	2	0.95	0.89	2	1	ND	ND
Snrpa1	U2 small nuclear ribonucleoprotein A'	11	2	0.85	0.89	8	3	0.98	1.10
Snrpb	small nuclear ribonucleoprotein-associated protein B	13	2	0.88	0.81	7	2	0.86	0.86
Snrpd2	small nuclear ribonucleoprotein Sm D2	8	1	1.18	1.07	9	2	1.03	1.14
Snrpd3	Small nuclear ribonucleoprotein Sm D3	6	1	0.96	0.97	10	2	1.02	0.90
Snrpe	small nuclear ribonucleoprotein E	6	1	1.04	0.98	11	1	1.01	0.99
Sntb2	beta-2-syntrophin	3	1	1.03	0.90	2	1	1.01	1.09
Snx1	sorting nexin-1	5	2	0.90	0.88	3	2	1.02	1.02
Snx12	Sorting nexin-12 isoform 1	10	1	1.11	1.17	1	1	0.94	1.07
Snx2	Sorting nexin-2	13	4	0.99	1.14	29	4	1.07	1.09
Snx3	sorting nexin-3	5	1	0.91	0.79	5	2	0.95	0.75
Snx5	sorting nexin-5	5	1	0.97	0.96	5	1	0.85	0.83
Sod1	superoxide dismutase	14	1	1.22	1.86	12	1	1.32	2.04
Sod2	superoxide dismutase [Mn], mitochondrial	10	2	1.00	1.05	9	2	0.94	1.06
Sod3	extracellular superoxide dismutase	6	1	1.11	1.14	9	1	1.00	0.86
Sorbs1	sorbin and SH3 domain-containing protein 1 isoform 1	3	2	0.86	1.04	ND	ND	ND	ND
Sord	sorbitol dehydrogenase	10	2	0.95	1.02	9	2	0.93	0.95

Sorl1	Sortilin-related receptor	2	1	0.66	0.63	ND	ND	ND	ND
Sost	sclerostin	1	1	ND	ND	ND	ND	ND	ND
Sp1	Transcription factor Sp1	2	2	1.42	2.20	ND	ND	ND	ND
Sp3	Transcription factor Sp3 isoform 2	3	1	3.32	2.12	ND	ND	ND	ND
Spcs2	Signal peptidase complex subunit 2	3	1	0.81	0.62	2	1	0.80	0.79
Sphk2	sphingosine kinase 2	1	1	0.02	0.10	4	1	0.86	1.11
Spna2	Spectrin alpha chain, brain	178	29	0.95	0.91	130	27	0.97	0.92
Spnb2	Spectrin beta chain, brain 1 isoform 1	124	25	1.10	0.91	117	25	0.98	1.01
Spnb2	Spectrin beta chain, brain 1 isoform 2	111	24	1.29	0.95	ND	ND	ND	ND
Spnb3	spectrin beta 3	93	28	0.99	1.00	98	27	0.98	0.99
Spon1	spondin-1	13	4	1.10	1.01	20	6	0.99	1.05
Spr	Sepiapterin reductase	16	4	0.82	0.99	19	5	0.98	1.11
Srm	spermidine synthase	6	4	1.03	0.96	5	2	1.10	1.13
Srp54c	Signal recognition particle 54C	2	1	18.42	0.86	ND	ND	ND	ND
Srp68	signal recognition particle 68 kDa protein	4	1	0.92	0.39	ND	ND	ND	ND
Srprb	signal recognition particle receptor subunit beta	1	1	1.28	1.81	ND	ND	ND	ND
Srpx	sushi-repeat-containing protein SRPX	68	6	1.55	1.42	58	6	1.46	1.45
Srpx2	sushi repeat-containing protein SRPX2	19	4	1.19	1.61	13	4	1.10	1.44
Srrm1	serine/arginine repetitive matrix protein 1 isoform 2	4	2	0.81	1.23	3	1	ND	ND
Srsf1	Splicing factor, arginine/serine-rich 1 isoform 2	23	5	1.30	1.26	13	2	1.29	1.26
Srsf10	splicing factor, arginine/serine-rich 13A isoform 1	4	1	1.14	1.24	ND	ND	ND	ND
Srsf11	Splicing factor, arginine/serine-rich 11 isoform 1	1	1	0.93	1.02	2	1	0.97	0.84
Srsf2	splicing factor, arginine/serine-rich 2	46	2	1.11	1.04	34	2	1.10	0.98
Srsf4	Splicing factor, arginine/serine-rich 4	2	2	0.75	1.31	ND	ND	ND	ND
Srsf5	Splicing factor, arginine/serine-rich 5	2	1	0.80	0.64	ND	ND	ND	ND
Srsf6	arginine/serine-rich splicing factor 6	1	1	1.21	1.13	2	2	1.13	0.96
Srsf7	splicing factor, arginine/serine-rich 7	20	3	1.02	1.09	16	3	1.05	0.96
Ssb	lupus La protein homolog	14	4	0.93	0.81	18	3	0.94	0.80
Ssr3	translocon-associated protein subunit gamma	2	1	1.61	1.48	2	1	1.65	1.29
Ssr4	translocon-associated protein subunit delta isoform 2	2	1	1.09	1.08	1	1	1.19	1.19
St13	hsc70-interacting protein	12	2	0.86	1.01	9	2	0.85	0.96
Stard10	PCTP-like protein	3	1	1.05	1.35	ND	ND	ND	ND
Stat2	signal transducer and activator of transcription 2	1	1	1.55	1.50	ND	ND	ND	ND
Steap4	metalloreductase STEAP4	4	3	0.81	0.68	1	1	1.40	1.52

Stip1	Stress-induced-phosphoprotein 1	55	6	0.91	0.98	64	7	0.91	1.01
Stom	erythrocyte band 7 integral membrane protein	7	2	1.19	1.09	6	1	1.18	1.07
Stoml2	Stomatin-like protein 2	6	3	0.94	0.93	2	1	0.30	2.18
Strap	Serine-threonine kinase receptor-associated protein	9	3	0.82	0.79	6	1	0.84	0.87
Strn	striatin, calmodulin binding protein	3	1	0.79	1.12	8	2	0.97	1.09
Strn3	striatin-3 isoform 2	1	1	1.06	1.04	1	1	1.10	1.22
Stt3a	Dolichyl-diphosphooligosaccharide--protein glycosyltransferas	8	2	1.82	1.31	ND	ND	ND	ND
Stt3b	dolichyl-diphosphooligosaccharide--protein glycosyltransferas	2	1	1.08	0.05	ND	ND	ND	ND
Stx12	syntaxin-12	13	4	1.30	1.09	10	2	0.94	0.89
Stx6	Syntaxin-6	1	1	1.14	1.01	ND	ND	ND	ND
Stx7	syntaxin-7	5	2	0.89	1.06	4	2	0.93	0.97
Sub1	activated RNA polymerase II transcriptional coactivator p15	30	3	0.99	1.11	32	2	0.99	1.09
Sucla2	succinyl-CoA ligase [ADP-forming] subunit beta, mitochondria	3	2	0.91	0.91	1	1	0.96	1.00
Suclg2	Succinyl-CoA ligase [GDP-forming] subunit beta, mitochondria	8	3	0.87	0.87	2	1	0.90	1.02
Sugt1	suppressor of G2 allele of SKP1 homolog	1	1	1.31	1.13	ND	ND	ND	ND
Supt16h	FACT complex subunit SPT16	1	1	0.97	0.86	ND	ND	ND	ND
Supt5h	suppressor of Ty 5 homolog	1	1	0.98	0.88	ND	ND	ND	ND
Supt6h	Transcription elongation factor SPT6	1	1	1.60	0.91	ND	ND	ND	ND
Syncrip	heterogeneous nuclear ribonucleoprotein Q isoform 2	33	6	1.04	0.88	22	6	1.01	0.96
Syne2	Synaptic nuclear envelope 2	4	1	1.33	0.33	8	3	1.41	1.11
Sypl2	synaptophysin-like protein 2	2	1	ND	ND	ND	ND	ND	ND
Sytl1	Synaptotagmin-like protein 1	18	5	0.97	0.99	16	6	0.81	0.96
Tacstd2	tumor-associated calcium signal transducer 2	70	5	1.00	0.99	59	4	1.11	0.99
Taf15	TAF15 RNA polymerase II, TATA box binding protein (TBP)-a	2	1	1.58	1.38	1	1	1.00	1.12
Tagln2	transgelin-2	40	6	0.97	1.04	26	6	0.91	0.96
Taldo1	transaldolase	23	5	1.16	1.31	17	1	1.31	1.62
Tardbp	TAR DNA-binding protein 43 isoform 1	17	3	0.93	1.13	14	3	0.87	0.91
Tars	threonyl-tRNA synthetase, cytoplasmic	10	2	1.06	1.00	5	2	1.03	1.00
Tatdn1	putative deoxyribonuclease TATDN1	2	1	ND	ND	1	1	0.97	1.04
Tbcb	tubulin-folding cofactor B	6	2	1.13	0.42	5	2	1.01	1.39
Tbcd	tubulin-specific chaperone D	2	2	1.08	1.39	3	2	1.14	1.46
Tcea1	transcription elongation factor A protein 1 isoform 3	2	1	1.23	0.94	ND	ND	ND	ND
Tceb2	Transcription elongation factor B polypeptide 2	6	1	1.08	1.08	3	1	0.97	1.01
Tcn2	transcobalamin-2	3	1	1.21	1.11	2	1	1.27	1.33

Tcp1	T-complex protein 1 subunit alpha B	86	12	0.93	0.93	58	8	0.98	0.99
Tdrd1	tudor domain-containing protein 1	1	1	0.75	3.44	ND	ND	ND	ND
Tecpr1	Tectonin beta-propeller repeat-containing protein 1	2	1	1.18	1.01	ND	ND	ND	ND
Tecr	trans-2,3-enoyl-CoA reductase isoform 2	4	1	1.57	1.47	2	1	1.52	1.34
Tfg	Trk-fused	2	1	ND	ND	7	2	0.82	0.20
Tgfbi	transforming growth factor-beta-induced protein ig-h3	471	13	2.02	1.63	571	14	2.00	1.56
Tgm2	protein-glutamine gamma-glutamyltransferase 2	187	15	1.02	1.13	167	13	1.02	1.18
Thbs1	thrombospondin-1	15	8	1.28	1.06	11	4	1.23	0.99
Thbs2	thrombospondin 2	4	3	0.98	1.29	3	2	1.00	1.16
Thbs3	thrombospondin-3	15	2	1.21	0.93	14	2	1.05	0.80
Thbs4	thrombospondin-4	363	15	1.77	1.27	323	15	1.94	1.22
Thoc2	THO complex subunit 2	3	1	1.18	1.23	ND	ND	ND	ND
Thoc4	THO complex subunit 4	13	3	0.83	0.89	9	1	0.91	0.92
Thop1	thimet oligopeptidase	1	1	1.03	1.07	ND	ND	ND	ND
Tinagl1	tubulointerstitial nephritis antigen-like	2	2	2.34	2.34	2	2	1.42	1.31
Tjp1	tight junction protein ZO-1 isoform 2	4	3	0.84	0.87	3	2	0.90	0.92
Tjp2	Tight junction protein ZO-2	16	6	0.93	0.91	7	3	0.87	1.10
Tjp3	Tight junction protein ZO-3	2	1	1.19	0.84	ND	ND	ND	ND
Tkt	transketolase	1167	17	0.88	0.99	1517	13	0.89	1.01
Tln1	talin-1	47	12	1.02	0.85	25	9	1.11	0.94
Tm9sf3	transmembrane protein 9 superfamily member 3	2	1	1.75	1.61	2	1	1.37	1.60
Tm9sf4	transmembrane 9 superfamily member 4	2	1	1.48	1.44	ND	ND	ND	ND
Tmed10	transmembrane emp24 domain-containing protein 10	11	2	1.35	0.84	23	2	1.08	0.90
Tmed4	transmembrane emp24 domain-containing protein 4	6	2	1.76	1.70	7	1	1.41	1.64
Tmed9	Transmembrane emp24 domain-containing protein 9	9	3	1.53	1.45	ND	ND	ND	ND
Tmem14c	Transmembrane protein 14C	2	1	1.42	1.44	6	2	1.60	1.40
Tmem165	Transmembrane protein 165	2	1	0.72	0.82	4	2	2.29	2.55
Tmem205	transmembrane protein 205	2	1	1.28	1.45	4	1	1.18	1.15
Tmem43	transmembrane protein 43	14	3	0.86	0.98	12	3	0.71	0.80
Tmod3	tropomodulin-3	10	4	0.85	0.83	11	3	0.84	0.80
Tmpo	Lamina-associated polypeptide 2, isoforms alpha/zeta isoform	38	6	1.26	1.38	24	5	1.00	0.87
Tmpo	Lamina-associated polypeptide 2, isoforms alpha/zeta isoform	34	5	1.24	1.04	ND	ND	ND	ND
Tmpo	Lamina-associated polypeptide 2, isoforms alpha/zeta isoform	40	4	1.43	1.25	ND	ND	ND	ND
Tmprss11a	transmembrane protease, serine 11A	3	2	1.14	1.16	4	3	1.03	1.05

Tmprss11bnl	Transmembrane protease, serine 11B	5	2	0.94	0.82	2	1	1.24	0.98
Tmprss13	Transmembrane protease, serine 13	1	1	ND	ND	ND	ND	ND	ND
Tmtc3	Transmembrane and TPR repeat-containing protein 3 isoform	3	1	1.20	1.11	1	1	1.32	1.33
Tmub1	Transmembrane and ubiquitin-like domain-containing protein	1	1	ND	ND	ND	ND	ND	ND
Tmx1	thioredoxin-related transmembrane protein 1	2	1	1.08	1.11	ND	ND	ND	ND
Tmx3	Protein disulfide-isomerase TMX3	3	1	0.59	0.57	2	1	0.52	0.65
Tnks1bp1	182 kDa tankyrase-1-binding protein	18	7	1.06	1.16	13	3	1.17	0.96
Tnmd	Tenomodulin	3	1	3.56	1.86	2	1	2.51	1.58
Tnpo1	Transportin-1 isoform 2	2	1	0.99	0.92	1	1	1.07	1.12
Tollip	Toll-interacting protein	6	1	1.02	0.97	6	1	1.06	1.04
Tom1l1	TOM1-like protein 1	1	1	0.76	0.81	ND	ND	ND	ND
Tom1l2	TOM1-like protein 2 isoform c	2	1	1.29	0.14	ND	ND	ND	ND
Tomm22	mitochondrial import receptor subunit TOM22 homolog	3	2	0.01	1.62	3	2	1.06	0.89
Tomm34	Mitochondrial import receptor subunit TOM34	9	4	1.11	1.23	10	2	1.01	1.06
Tomm40	Mitochondrial import receptor subunit TOM40 homolog	5	2	0.88	0.88	ND	ND	ND	ND
Tomm70a	mitochondrial import receptor subunit TOM70	4	2	0.87	0.78	5	2	1.01	0.82
Top2b	DNA topoisomerase 2-beta	6	3	1.20	1.08	ND	ND	ND	ND
Tpd52	tumor protein D52 isoform 5	18	2	1.01	0.89	17	1	0.77	0.73
Tpd52l2	tumor protein D54	32	3	1.01	1.07	27	2	0.84	1.01
Tpi1	triosephosphate isomerase	79	4	1.03	1.00	62	3	0.97	1.01
Tpm1	tropomyosin alpha-1 chain isoform 9	12	4	0.97	0.87	ND	ND	ND	ND
Tpm1	tropomyosin alpha-1 chain isoform 10	12	4	1.08	1.00	7	2	1.02	1.06
Tpm2	Tropomyosin beta chain	24	3	0.90	0.99	ND	ND	ND	ND
Tpm3	tropomyosin alpha-3 chain	49	4	1.02	0.96	40	3	0.94	0.96
Tpm4	tropomyosin alpha-4 chain	14	3	1.01	0.95	16	2	1.02	1.00
Tpp2	tripeptidyl-peptidase 2	3	1	1.01	1.84	1	1	0.87	1.53
Tppp	tubulin polymerization-promoting protein	3	1	1.96	1.02	ND	ND	ND	ND
Tpr	nuclear pore complex-associated protein Tpr	2	2	0.86	0.94	ND	ND	ND	ND
Tra2a	Transformer-2 protein homolog alpha	2	1	0.99	1.35	ND	ND	ND	ND
Tra2b	transformer-2 protein homolog beta	16	2	1.02	0.82	23	2	1.07	0.95
Trap1	Heat shock protein 75 kDa, mitochondrial	73	2	0.91	0.93	ND	ND	ND	ND
Trappc3	trafficking protein particle complex subunit 3	1	1	1.19	1.15	ND	ND	ND	ND
Trf	serotransferrin	149	16	0.94	0.56	134	12	0.90	0.69
Trim25	E3 ubiquitin/ISG15 ligase TRIM25	6	2	1.02	1.02	1	1	1.01	1.08

Trim28	transcription intermediary factor 1-beta	47	6	0.91	0.92	49	6	0.90	0.92
Trim29	Tripartite motif-containing protein 29	67	8	0.95	0.88	45	7	0.92	0.90
Trove2	60 kDa SS-A/Ro ribonucleoprotein	1	1	0.85	0.88	ND	ND	ND	ND
Trp63	tumor protein 63 isoform h	2	1	0.97	0.90	3	1	1.03	0.95
Tsc22d4	TSC22 domain family protein 4	1	1	1.22	1.28	ND	ND	ND	ND
Tsg101	Tumor susceptibility gene 101 protein	7	1	0.96	1.05	4	1	0.99	0.97
Tssk3	testis-specific serine/threonine-protein kinase 3	1	1	0.19	0.27	ND	ND	ND	ND
Tst	thiosulfate sulfurtransferase	1	1	0.97	1.21	ND	ND	ND	ND
Tsta3	GDP-L-fucose synthetase	1	1	1.69	1.33	1	1	1.24	1.37
Ttc15	tetratricopeptide repeat protein 15 isoform 1	1	1	0.96	1.19	ND	ND	ND	ND
Ttc38	Tetratricopeptide repeat protein 38	18	4	0.79	1.07	6	1	0.86	1.14
Ttll12	tubulin--tyrosine ligase-like protein 12	6	3	1.16	1.13	2	2	1.07	1.00
Ttll2	Probable tubulin polyglutamylase TTLL2	1	1	2.08	1.95	ND	ND	ND	ND
Tuba1a	tubulin alpha-1A chain	217	10	1.45	1.50	270	8	0.90	0.94
Tuba1b	tubulin alpha-1B chain	236	10	ND	ND	280	8	1.01	1.04
Tuba1c	tubulin alpha-1C chain	219	10	1.38	1.43	270	8	0.85	0.73
Tuba4a	tubulin alpha-4A chain	133	7	1.25	1.09	141	7	1.01	0.96
Tubb2b	tubulin beta-2B chain	262	12	0.81	1.31	225	11	1.15	1.10
Tubb2c	tubulin beta-2C chain	324	13	0.97	1.19	285	13	0.95	1.27
Tubb3	Tubulin beta-3 chain	242	10	0.67	0.78	249	9	0.00	0.00
Tubb4	tubulin beta-4 chain	314	12	0.97	1.18	279	12	0.94	1.10
Tubb5	tubulin beta-5 chain	357	14	1.01	0.93	301	12	1.08	0.92
Tubb6	tubulin beta-6 chain	128	7	ND	ND	157	6	0.72	0.71
Tuft1	tuftelin	2	1	1.09	0.91	ND	ND	ND	ND
Twf1	twinfilin-1	11	2	0.95	0.97	13	2	1.05	1.00
Txn1	thioredoxin	46	3	1.75	1.86	21	3	2.07	1.82
Txndc12	Thioredoxin domain-containing protein 12	2	1	1.02	0.98	ND	ND	ND	ND
Txndc17	Thioredoxin domain-containing protein 17	61	3	0.94	1.14	33	3	3.35	2.78
Txndc5	thioredoxin domain-containing protein 5	15	3	0.97	0.81	17	3	1.02	0.91
Txnl1	thioredoxin-like protein 1	5	2	0.85	0.86	4	2	1.03	0.94
U2af2	Splicing factor U2AF 65 kDa subunit	7	3	0.81	0.91	7	2	0.89	0.82
Uaca	uveal autoantigen with coiled-coil domains and ankyrin repeat	3	1	0.80	0.88	ND	ND	ND	ND
Uap1l1	UDP-N-acetylhexosamine pyrophosphorylase-like protein 1	1	1	1.14	1.38	ND	ND	ND	ND
Uba1	ubiquitin-like modifier-activating enzyme 1 isoform 1	158	12	0.98	1.12	149	11	0.98	1.10

Uba2	SUMO-activating enzyme subunit 2	6	2	0.96	1.05	4	2	0.91	0.88
Uba3	NEDD8-activating enzyme E1 catalytic subunit isoform 2	3	2	0.96	0.98	2	1	1.03	1.03
Uba6	ubiquitin-like modifier-activating enzyme 6	5	3	0.88	1.10	1	1	1.05	0.85
Ubap2l	ubiquitin-associated protein 2-like isoform 5	4	3	1.27	1.02	ND	ND	ND	ND
Ubap2l	ubiquitin-associated protein 2-like isoform 1	1	1	0.82	0.75	ND	ND	ND	ND
Ubb	ubiquitin	116	3	0.96	1.04	124	3	0.94	1.11
Ube2e1	ubiquitin-conjugating enzyme E2 E1	1	1	1.03	1.01	ND	ND	ND	ND
Ube2k	ubiquitin-conjugating enzyme E2 K	10	2	2.02	1.32	9	2	0.77	1.00
Ube2m	NEDD8-conjugating enzyme Ubc12 isoform 1	7	2	1.30	1.13	ND	ND	ND	ND
Ube2m	NEDD8-conjugating enzyme Ubc12 isoform 2	1	1	1.25	1.18	ND	ND	ND	ND
Ube2n	ubiquitin-conjugating enzyme E2 N	22	3	1.02	1.09	14	2	1.04	1.14
Ube2r2	Ubiquitin-conjugating enzyme E2 R2	1	1	1.01	1.11	ND	ND	ND	ND
Ube2v1	ubiquitin-conjugating enzyme E2 variant 1	11	3	1.12	1.06	17	5	1.07	1.09
Ube2v2	ubiquitin-conjugating enzyme E2 variant 2 isoform 1	16	5	1.05	1.10	ND	ND	ND	ND
Ube3a	ubiquitin-protein ligase E3A isoform 1	2	1	0.83	0.78	ND	ND	ND	ND
Ubqln1	ubiquilin-1 isoform 2	2	1	0.94	0.67	9	3	1.02	1.07
Ubr4	E3 ubiquitin-protein ligase UBR4	3	2	0.90	1.01	ND	ND	ND	ND
Ubtf	Nucleolar transcription factor 1 isoform 2	7	1	0.93	0.96	3	1	0.85	0.97
Ubxn1	UBX domain-containing protein 1	4	1	1.12	0.97	3	2	1.11	1.07
Ubxn10	UBX domain-containing protein 10	2	1	ND	ND	ND	ND	ND	ND
Ubxn4	UBX domain-containing protein 4	3	1	1.00	0.05	1	1	1.17	1.28
Uchl3	Ubiquitin carboxyl-terminal hydrolase isozyme L3	9	3	0.81	1.01	1	1	1.03	1.11
Uchl5	ubiquitin carboxyl-terminal hydrolase isozyme L5 isoform 2	4	2	1.47	1.09	ND	ND	ND	ND
Ucp3	mitochondrial uncoupling protein 3	9	1	2.86	2.03	ND	ND	ND	ND
Ufd1l	ubiquitin fusion degradation protein 1 homolog	2	2	0.97	0.99	ND	ND	ND	ND
Ufm1	Ubiquitin-fold modifier 1	3	1	1.47	1.03	4	1	0.00	0.99
Ugdh	UDP-glucose 6-dehydrogenase	15	5	0.82	0.83	5	2	0.87	0.94
Uggt1	UDP-glucose:glycoprotein glucosyltransferase 1	15	3	0.93	1.06	10	4	0.88	0.97
Ugp2	UTP--glucose-1-phosphate uridylyltransferase	6	1	0.90	1.03	ND	ND	ND	ND
Ugt1a9	UDP-glucuronosyltransferase 1-9	7	2	1.28	1.36	6	1	1.21	1.20
Unc45a	protein unc-45 homolog A	9	3	0.90	0.84	8	3	0.95	0.84
Upf1	regulator of nonsense transcripts 1 isoform b	10	4	1.23	1.00	4	3	1.11	1.13
Upk1b	uroplakin-1b	47	2	0.90	0.81	47	2	0.90	0.85
Uqcrc1	cytochrome b-c1 complex subunit 1, mitochondrial	26	3	1.35	1.36	19	4	1.27	1.28

Uqcrc2	cytochrome b-c1 complex subunit 2, mitochondrial	14	3	1.01	0.91	5	1	1.15	1.05
Uqcrfs1	Cytochrome b-c1 complex subunit Rieske, mitochondrial	5	1	0.95	0.67	3	1	0.99	0.81
Uqcrq	cytochrome b-c1 complex subunit 8	2	1	1.36	1.29	1	1	1.46	1.20
Uso1	general vesicular transport factor p115	7	4	1.05	1.09	ND	ND	ND	ND
Usp10	ubiquitin carboxyl-terminal hydrolase 10	11	2	0.87	0.80	6	2	0.81	0.85
Usp14	ubiquitin carboxyl-terminal hydrolase 14 isoform 2	7	2	1.06	1.41	4	2	1.03	1.32
Usp39	U4/U6.U5 tri-snRNP-associated protein 2	2	1	0.97	1.03	1	1	0.77	0.73
Usp4	Ubiquitin carboxyl-terminal hydrolase 4	1	1	0.85	0.97	ND	ND	ND	ND
Usp47	ubiquitin carboxyl-terminal hydrolase 47	2	1	1.13	1.21	ND	ND	ND	ND
Usp5	ubiquitin carboxyl-terminal hydrolase 5	37	8	0.99	0.94	27	5	0.97	1.04
Usp7	Ubiquitin carboxyl-terminal hydrolase 7	5	2	1.09	1.15	1	1	1.26	1.19
Usp9x	Probable ubiquitin carboxyl-terminal hydrolase FAF-X	2	1	8.52	1.16	ND	ND	ND	ND
Utrn	Utrophin	15	4	0.70	0.86	12	3	1.35	1.26
Vamp3	vesicle-associated membrane protein 3	18	1	0.94	1.02	14	2	0.92	0.96
Vapb	vesicle-associated membrane protein-associated protein B	4	1	0.70	0.67	ND	ND	ND	ND
Vars	valyl-tRNA synthetase	7	6	1.17	0.87	4	4	1.08	0.88
Vat1	synaptic vesicle membrane protein VAT-1 homolog	40	6	0.98	1.07	27	5	0.96	0.97
Vbp1	Prefoldin subunit 3	8	1	0.80	0.87	3	1	0.85	0.89
Vcl	vinculin	69	17	0.99	1.03	70	16	0.93	1.06
Vcp	transitional endoplasmic reticulum ATPase	247	21	0.85	1.02	246	19	0.98	1.05
Vdac1	voltage-dependent anion-selective channel protein 1	89	8	1.02	0.96	47	4	0.96	1.02
Vdac2	voltage-dependent anion-selective channel protein 2	15	2	0.81	0.85	7	2	0.78	0.80
Vdac3	voltage-dependent anion-selective channel protein 3	12	2	0.84	0.79	8	1	0.97	0.90
Vim	vimentin	245	13	1.11	0.98	200	13	1.03	0.92
Vipar	hypothetical protein LOC104799 isoform b	1	1	1.56	1.36	ND	ND	ND	ND
Vma21	Vacuolar ATPase assembly integral membrane protein VMA2	5	1	0.87	0.88	1	1	0.96	0.97
Vps13c	Vacuolar protein sorting-associated protein 13C	6	2	1.00	1.21	2	1	0.72	1.13
Vps25	vacuolar protein-sorting-associated protein 25	1	1	1.01	0.82	3	1	0.71	1.39
Vps26a	vacuolar protein sorting-associated protein 26A isoform a	8	2	1.00	1.27	14	2	0.91	1.05
Vps26b	vacuolar protein sorting-associated protein 26B	3	1	1.01	0.91	ND	ND	ND	ND
Vps28	Vacuolar protein sorting-associated protein 28 homolog	1	1	1.96	1.19	3	2	1.56	1.63
Vps35	Vacuolar protein sorting-associated protein 35	19	4	0.99	0.86	16	6	1.12	1.03
Vps37b	vacuolar protein sorting-associated protein 37B	1	1	ND	ND	ND	ND	ND	ND
Vps37c	vacuolar protein sorting-associated protein 37C	4	2	1.24	1.50	ND	ND	ND	ND

Vps45	vacuolar protein sorting 45	2	1	0.91	1.10	ND	ND	ND	ND
Vps4a	vacuolar protein sorting-associated protein 4A	3	1	1.09	1.08	ND	ND	ND	ND
Vsnl1	visinin-like protein 1	5	2	1.14	1.03	ND	ND	ND	ND
Vta1	vacuolar protein sorting-associated protein VTA1 homolog	1	1	0.91	1.13	ND	ND	ND	ND
Vwa5a	von Willebrand factor A domain-containing protein 5A	58	8	0.97	1.03	61	8	0.95	1.05
Wapal	Wings apart-like protein homolog	4	1	ND	ND	ND	ND	ND	ND
Wars	tryptophanyl-tRNA synthetase, cytoplasmic isoform 2	2	2	1.26	1.25	1	1	1.17	1.22
Wasf2	wiskott-Aldrich syndrome protein family member 2	6	1	0.99	0.80	9	1	0.99	0.80
Wdr1	WD repeat-containing protein 1	47	7	1.00	1.12	56	6	1.14	1.18
Wfs1	Wolfram syndrome 1 protein homolog	4	3	0.99	0.88	3	2	0.71	0.78
Wibg	partner of Y14 and mago isoform 2	1	1	1.42	1.34	ND	ND	ND	ND
Wt1	Wilms tumor protein homolog	3	1	0.87	7.58	1	1	0.87	7.29
Xdh	xanthine dehydrogenase/oxidase	4	1	0.99	1.08	6	1	1.06	0.99
Xpnpep1	xaa-Pro aminopeptidase 1	6	2	0.93	0.90	7	4	1.06	1.14
Xpo1	exportin-1	18	3	1.18	1.15	10	2	1.21	1.14
Xrcc1	DNA repair protein XRCC1	1	1	1.01	0.89	ND	ND	ND	ND
Xrcc6	ATP-dependent DNA helicase 2 subunit 1	4	1	1.09	1.39	ND	ND	ND	ND
Yap1	65 kDa Yes-associated protein isoform 2	8	2	1.10	1.04	5	1	0.13	0.19
Ybx1	Nuclease-sensitive element-binding protein 1	26	3	0.84	0.86	22	2	1.52	1.40
Ykt6	synaptobrevin homolog YKT6	3	1	0.92	1.43	1	1	0.62	1.05
Ywhab	14-3-3 protein beta/alpha	206	7	0.85	1.01	183	5	0.90	0.85
Ywhae	14-3-3 protein epsilon	251	10	0.83	0.93	212	10	0.83	0.93
Ywhag	3-monooxgenase/tryptophan 5-monooxygenase activation pro	219	6	0.85	0.86	178	4	0.89	0.94
Ywhah	14-3-3 protein eta	169	4	1.19	1.21	144	3	1.03	1.10
Ywhaq	14-3-3 protein theta	234	8	1.08	1.16	198	6	1.11	1.21
Ywhaz	14-3-3 protein zeta/delta	363	10	0.99	1.00	350	9	0.94	0.99
Zadh2	zinc-binding alcohol dehydrogenase domain-containing protei	4	2	1.01	1.06	3	1	1.70	1.76
Zc3h15	zinc finger CCCH domain-containing protein 15	3	1	1.11	0.72	ND	ND	ND	ND
Zc3hav1	zinc finger CCCH-type antiviral protein 1 isoform 2	1	1	1.62	1.78	3	1	1.12	1.19
Zdhhc5	probable palmitoyltransferase ZDHHC5	1	1	0.93	0.95	1	1	1.52	1.20
Zfp185	Zinc finger protein 185 isoform b	6	2	0.87	0.90	1	1	1.21	1.17
Zfp207	zinc finger protein 207 isoform 4	3	1	1.09	1.09	2	1	0.98	1.08
Zfp324	zinc finger protein 324	1	1	0.89	0.89	ND	ND	ND	ND
Zfp329	zinc finger protein 329	1	1	ND	ND	ND	ND	ND	ND

Zmpste24	CAAX prenyl protease 1 homolog	2	1	1.12	14.15	5	1	1.23	0.90

* Fold change compared $Lum^{+/+}$; PSM: Peptide spectrum matches; ND: Not detected