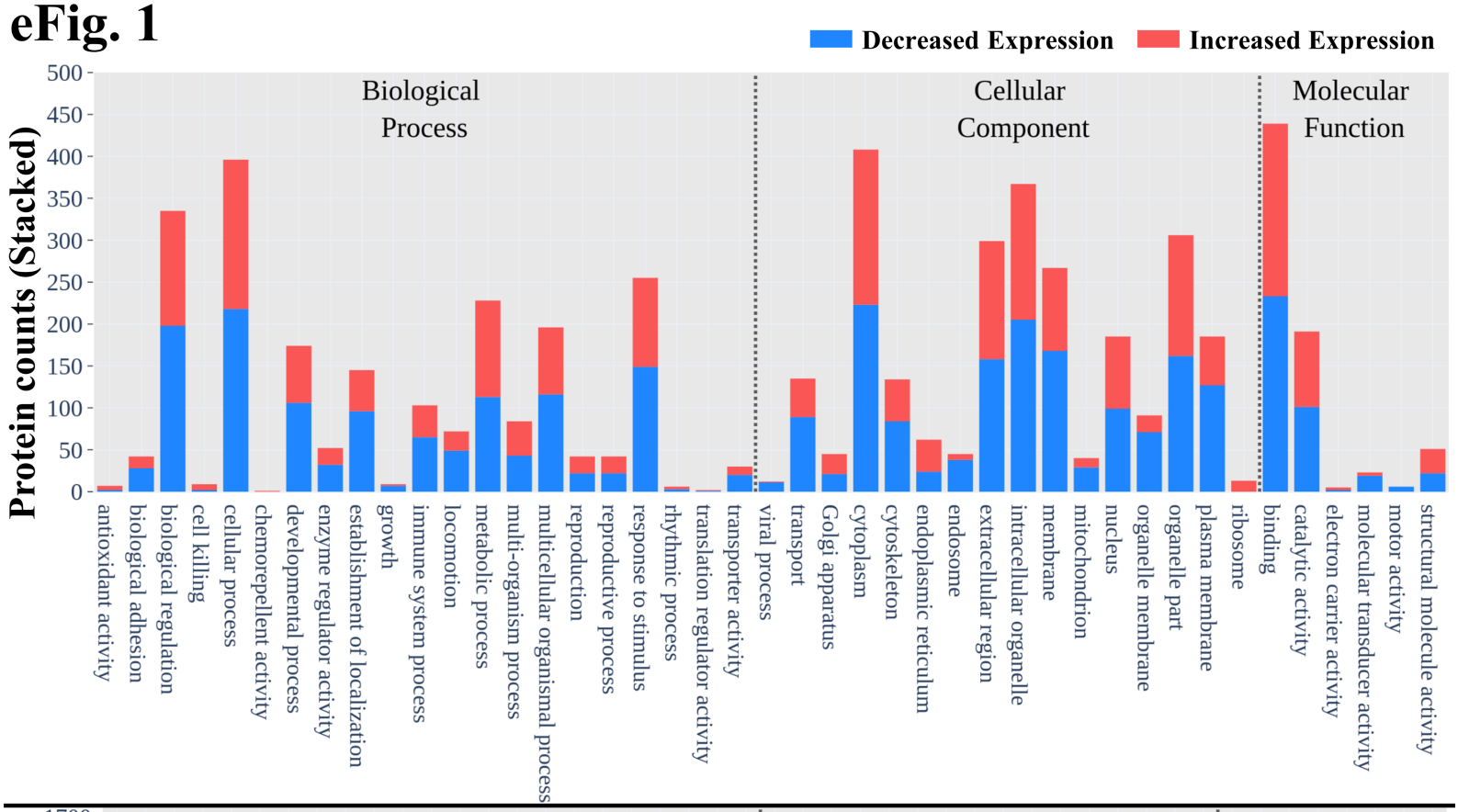
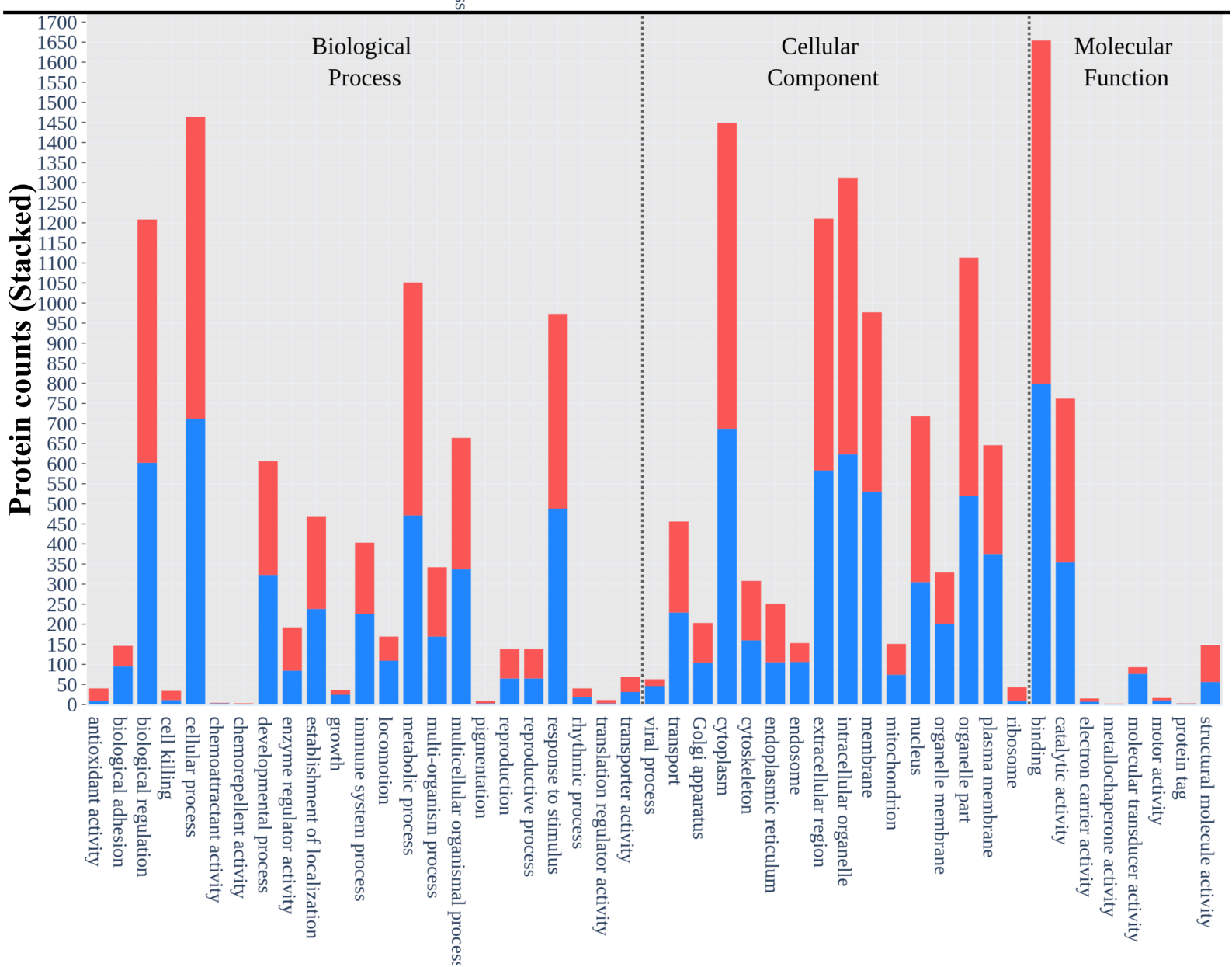
eFig. 1


Decreased Expression
Increased Expression
Protein counts (Stacked)
Biological Process
Cellular Component
Molecular Function
antioxidant activity
biological adhesion
biological regulation
cell killing
cellular process
chemorepellent activity
developmental process
enzyme regulator activity
establishment of localization
growth
immune system process
locomotion
metabolic process
multi-organism process
multicellular organismal process
reproduction
reproductive process
response to stimulus
rhythmic process
translation regulator activity
transporter activity
viral process
transport
Golgi apparatus
cytoplasm
cytoskeleton
endoplasmic reticulum
endosome
extracellular region
intracellular organelle
membrane
mitochondrion
nucleus
organelle membrane
organelle part
plasma membrane
ribosome
binding
catalytic activity
electron carrier activity
molecular transducer activity
motor activity
structural molecule activity


Protein counts (Stacked)
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membrane
mitochondrion
nucleus
organelle membrane
organelle part
plasma membrane
ribosome
binding
catalytic activity
electron carrier activity
metallochaperone activity
molecular transducer activity
motor activity
protein tag
structural molecule activity

eTable 1

Uniprot #	Uniprot ID	A1	A2	A3	A4	A5	A6	E1	E2	E3	E4	E5	E6	E7	E8	E9	E10	t-test	Significance
P06748	NPM	0.94	-0.17	-1.01	-0.21	0.17	0.38	1.55	0.42	1.07	1.54	0.09	0.26	0.41	1.07	-0.07	0.61	0.048	*
P05023	AT1A1	0.31	-0.56	-0.31	0.58	-0.34	0.36	0.47	0.84	0.45	0.54	-0.41	0.74	0.50	1.53	0.32	1.18	0.033	*
P04632	CPNS1	0.05	-0.05	-0.56	-0.18	0.33	0.15	0.38	0.06	0.67	0.78	0.57	0.21	0.03	0.59	0.63	0.48	0.0046	***
P61019	RAB2A	0.12	0.37	-0.14	0.23	-0.12	-0.33	0.75	1.03	-0.18	0.76	0.01	0.88	0.33	0.97	0.09	0.26	0.034	*
O75884	RBBP9	0.02	0.59	-0.88	-1.20	0.69	-0.02	-0.12	0.99	0.55	0.22	-0.04	0.53	0.40	0.72	1.10	0.57	0.049	*
Q09028	RBBP4	0.59	-0.01	-0.01	0.04	0.01	-0.10	0.82	-0.06	0.83	0.45	0.25	0.73	0.45	0.80	0.34	0.63	0.0088	**
P20340	RAB6A	0.18	0.71	-1.10	-0.18	0.19	-0.32	0.19	0.35	0.57	0.97	-0.27	0.68	0.52	0.66	0.58	0.20	0.04	*
Q01105	SET	0.22	0.12	-0.73	-1.05	0.42	-0.12	0.48	-0.12	0.80	0.62	-0.53	0.43	0.44	0.98	0.98	0.71	0.025	*
P62258	1433E	-0.06	0.30	-0.70	-1.32	0.65	0.06	0.23	0.37	0.79	0.90	-0.14	0.13	0.08	0.75	0.75	0.89	0.031	*
P09104	ENOG	0.50	0.97	-0.45	-1.16	-0.11	0.11	0.19	1.11	0.73	0.37	0.09	0.53	0.58	0.63	1.09	0.55	0.038	*
Q14011	CIRBP	0.02	-0.02	-0.79	-0.55	0.94	0.09	0.51	1.14	0.62	1.33	-0.19	0.33	0.48	1.07	0.56	0.82	0.016	*
P39687	AN32A	0.48	-0.28	-0.59	-0.70	0.71	0.28	0.51	0.27	0.98	0.69	-0.12	0.51	0.46	1.07	1.05	0.88	0.018	*
P17655	CAN2	0.00	-0.41	-0.87	0.30	0.28	0.00	0.59	0.61	0.70	0.98	0.68	0.34	0.21	1.00	0.39	0.49	0.0011	***
Q9BUJ2	HNRL1	0.81	0.20	-0.63	-0.90	0.75	-0.20	0.89	0.59	0.62	0.96	0.12	0.47	0.40	1.05	0.34	0.87	0.026	*
Q9Y3B8	ORN	0.22	0.48	-0.36	-2.01	0.40	-0.22	-0.20	0.83	0.50	0.63	-0.06	0.62	0.78	0.78	0.80	0.53	0.032	*
P20336	RAB3A	-1.35	0.46	-0.44	-1.46	0.44	0.55	0.62	1.14	0.40	0.69	-0.33	0.63	0.31	0.81	0.92	-0.32	0.042	*
P57735	RAB25	-0.14	-0.58	-0.66	0.42	0.18	0.14	0.98	-0.64	0.98	-0.08	1.00	0.45	0.86	0.50	0.22	0.75	0.035	*
O43488	ARK72	0.09	0.50	-0.54	-0.68	0.67	-0.09	0.12	0.74	0.73	0.73	0.04	0.59	0.48	0.59	0.88	0.68	0.015	*
Q5TFE4	NT5D1	-0.10	0.75	-0.55	-1.18	0.99	0.10	-0.10	0.64	0.43	0.49	0.71	0.74	0.65	0.91	1.10	0.61	0.046	*
P17174	AATC	-0.10	0.80	-0.30	-0.77	0.80	0.10	0.17	0.58	0.84	0.83	0.07	0.67	0.55	1.11	1.19	0.63	0.032	*
Q9UHR4	BI2L1	-0.95	0.52	-0.03	-1.74	0.35	0.03	0.67	0.71	1.22	0.71	0.37	-0.19	-0.40	0.88	0.65	0.56	0.028	*
Q15181	IPYR	0.47	0.10	-0.54	-0.31	0.64	-0.10	0.28	1.07	1.32	0.95	0.00	0.72	0.59	0.21	0.84	0.61	0.014	*
Q96AE4	FUBP1	-0.17	0.17	-1.10	-0.83	1.08	0.30	0.64	-0.01	0.79	1.13	0.08	0.50	0.42	0.70	1.10	0.96	0.028	*
O14745	NHRF1	-0.27	0.17	-0.17	-0.45	1.23	0.30	0.64	1.45	0.78	1.23	0.31	0.44	0.13	0.24	1.27	0.81	0.043	*
Q9UNZ2	NSF1C	0.09	0.82	-0.59	-0.56	0.67	-0.09	-0.13	1.09	0.57	0.75	0.40	1.30	1.04	0.54	1.03	0.68	0.018	*
P55209	NP1L1	-0.04	0.27	-0.57	-0.64	0.65	0.04	0.52	-0.12	0.70	0.81	-0.14	0.76	0.51	0.76	0.89	1.01	0.016	*
P61604	CH10	-0.22	1.10	-0.97	-1.80	0.22	0.30	1.17	1.52	0.33	1.43	-0.32	0.18	0.05	1.26	0.77	0.70	0.039	*
O14979	HNRDL	0.11	-0.11	-0.57	-0.29	0.74	0.50	0.89	0.26	1.06	1.51	0.48	0.41	0.62	0.86	0.02	1.33	0.016	*
P07237	PDIA1	-0.12	1.30	-0.18	-0.24	0.37	0.12	1.67	0.70	0.22	2.17	0.13	0.77	0.45	2.12	1.14	0.73	0.041	*
P51858	HDGF	-0.37	0.37	-0.49	-0.82	0.95	0.48	0.25	1.38	0.78	0.82	0.00	0.46	0.11	0.72	1.17	0.88	0.04	*
Q14651	PLSI	-0.18	0.37	-0.22	-0.82	1.03	0.18	0.39	0.94	0.70	0.82	0.52	0.09	0.51	1.05	1.37	1.16	0.015	*
P36405	ARL3	-1.07	0.70	-0.43	-1.47	1.22	0.43	0.19	0.52	1.45	1.02	0.42	0.56	0.46	1.44	0.99	1.16	0.027	*
P10909	CLUS	-0.31	-1.49	-0.02	0.22	0.57	0.02	0.63	0.01	0.95	1.50	1.38	0.93	0.94	-0.60	0.41	0.30	0.033	*
O95433	AHSA1	-0.36	0.50	-0.28	-0.50	0.84	0.28	0.47	0.28	0.86	0.93	0.49	0.26	0.77	0.80	0.95	1.27	0.011	*
Q9HB07	MYG1	-0.18	0.62	-0.65	-0.64	0.77	0.18	0.41	1.62	0.74	1.04	-0.18	0.66	0.30	1.29	1.14	0.84	0.018	*
P0DOX3	IGD	-1.25	0.36	-0.36	0.41	-0.64	0.45	0.06	2.87	-0.14	0.32	3.14	2.76	0.25	2.19	0.13	1.27	0.027	*
Q8N392	RHG18	-0.50	0.38	-0.38	-0.49	1.40	0.55	0.22	0.85	1.38	0.98	0.56	0.45	0.38	0.76	1.43	1.26	0.04	*
P52597	HNRPF	0.14	-0.08	-0.44	-0.57	0.89	0.08	1.09	0.03	0.97	1.30	0.40	0.55	0.68	0.95	0.66	1.43	0.0045	**
P46783	RS10	0.14	0.24	-0.50	-0.13	0.13	-0.35	0.76	0.42	1.35	1.07	0.20	1.06	-0.25	1.46	-0.11	0.89	0.012	*
Q14508	WFDC2	-0.49	-0.51	0.49	-0.80	0.57	0.58	2.08	1.93	0.92	2.02	2.84	-0.54	0.65	0.73	0.48	0.26	0.027	*
P13861	KAP2	-0.02	1.13	-0.66	-0.68	0.98	0.02	0.53	0.49	1.01	1.44	0.41	0.70	0.69	1.14	1.33	0.96	0.02	*
P62917	RL8	1.23	0.58	-0.50	-0.02	0.02	-0.71	1.05	0.72	1.21	0.89	-0.06	1.00	0.36	1.27	0.36	0.78	0.035	*
Q3ZCM7	TBB8	0.00	-0.93	-0.27	0.00	0.82	0.38	0.93	-0.41	1.17	1.38	0.51	-0.19	0.80	1.24	0.52	1.11	0.039	*
P01033	TIMP1	0.18	0.07	-0.07	-1.59	0.51	-0.16	1.25	1.50	1.49	2.54	1.62	0.28	0.49	0.34	0.09	0.21	0.013	*
Q15084	PDIA6	-0.10	0.48	-0.03	0.27	-0.27	0.03	1.73	0.38	0.30	2.43	0.66	1.32	0.86	1.71	0.34	0.90	0.0059	*
Q9Y266	NUDC	-0.90	0.56	-0.56	-1.02	1.29	0.58	0.54	0.91	1.17	1.44	0.53	0.38	0.62	0.86	1.30	1.17	0.016	*
Q13813	SPTN1	-0.37	0.69	-0.58	-0.43	1.02	0.37	2.20	1.14	1.34	1.97	0.58	0.22	0.22	1.19	0.26	0.63	0.032	*
P01876	IGHA1	0.08	-1.57	0.61	-0.08	0.28	-0.24	0.85	0.35	0.93	1.52	1.68	0.34	0.17	-0.18	1.00	1.61	0.015	*
Q9BW83	IFT27	-0.76	1.11	-0.53	-0.76	0.91	0.53	0.48	0.99	1.76	1.39	0.49	0.71	0.82	2.36	0.83	1.34	0.013	*
P49327	FAS	-0.30	1.00	0.03	-0.03	0.51	-0.20	1.38	-0.43	1.26	1.57	0.21	1.00	0.69	0.90	0.66	0.92	0.041	*
Q9Y5Z4	HEBP2	-0.09	0.09	-0.29	-1.01	1.04	0.43	0.40	2.00	1.08	0.99	0.62	0.41	0.40	1.27	1.12	0.84	0.0099	*
O43490	PROM1	0.07	-0.03	0.47	-1.55	0.03	-0.64	0.91	1.19	0.80	1.49	2.07	-0.01	0.95	0.46	1.82	-0.45	0.0086	*
Q9Y3C8	UFC1	-0.79	0.47	-0.47	-0.96	1.09	0.69	0.11	1.15	1.53	0.84	0.25	0.31	0.78	1.70	1.02	1.31	0.022	*
Q99733	NP1L4	-0.40	0.36	-0.84	-0.36	0.88	0.38	0.26	0.02	1.11	0.93	0.21	1.22	1.17	0.80	0.94	1.10	0.013	*
Q9Y365	STA10	-1.02	0.17	-0.17	-1.02	1.58	0.50	0.67	0.52	0.92	1.58	0.73	1.05	0.92	1.51	1.70	0.96	0.0091	*
P09758	TACD2	-0.88	-0.33	0.10	0.41	0.09	-0.09	0.53	1.79	0.93	1.16	-0.14	0.03	0.76	2.00	1.01	1.84	0.0052	*
P35080	PROF2	-1.54	0.69	-0.69	-1.69	1.43	0.80	0.19	0.94	1.19	1.01	0.30	0.12	0.52	1.64	1.22	1.20	0.047	*

eTable 1, continued

Uniprot #	Uniprot ID	A1	A2	A3	A4	A5	A6	E1	E2	E3	E4	E5	E6	E7	E8	E9	E10	t-test	Significance
P62269	RS18	0.28	0.47	-0.49	0.12	-0.12	-0.62	0.93	0.04	1.66	1.72	0.03	1.13	-0.05	1.51	0.23	1.02	0.016	*
Q9H0P0	5NT3A	-0.37	0.37	-1.12	-1.09	1.23	0.74	-0.35	0.67	1.76	1.02	0.11	0.67	1.07	1.39	0.94	1.20	0.041	*
P35221	CTNA1	-0.45	0.45	-1.36	-2.84	0.78	0.67	0.98	0.99	1.12	1.14	-0.46	0.59	0.93	1.97	1.01	0.69	0.018	*
Q9Y4L1	HYOU1	-0.03	0.81	-0.11	0.03	0.22	-0.17	1.74	0.93	0.80	2.26	1.05	1.30	0.63	1.53	0.72	0.45	0.0015	**
Q71U36	TBA1A	0.98	-0.72	-0.22	-0.19	0.89	0.19	1.54	-0.30	1.45	2.34	0.54	0.40	0.91	1.06	0.52	1.27	0.043	*
O94760	DDAH1	-0.51	0.51	-1.03	-1.06	1.06	0.80	-0.38	1.47	1.19	0.92	0.51	0.44	0.50	1.44	1.11	1.18	0.036	*
Q96NY7	CLIC6	-0.64	0.24	-0.24	-1.15	1.73	0.43	0.40	1.40	0.84	1.28	0.71	0.82	0.88	1.29	1.87	1.17	0.013	*
Q8TDL5	BPIB1	1.20	-0.63	0.00	-1.08	0.37	0.00	2.18	0.46	1.68	2.87	1.47	0.99	1.05	0.73	-0.16	0.11	0.024	*
Q07020	RL18	0.89	0.36	-0.63	0.57	-0.36	-1.52	1.03	-0.36	1.48	0.66	-0.12	1.23	1.52	2.31	0.36	1.02	0.033	*
P63208	SKP1	-0.04	0.43	-0.92	-0.91	0.50	0.04	-0.06	1.07	1.21	1.36	-0.14	1.20	0.83	1.05	1.00	0.64	0.005	**
Q01130	SRSF2	1.60	-1.36	0.13	-0.43	0.03	-0.03	1.50	0.90	1.41	1.81	-0.11	1.07	1.00	0.87	-0.50	1.25	0.043	*
Q99102	MUC4	0.68	0.38	0.01	-0.68	-0.57	-0.01	1.12	1.48	1.09	1.00	1.36	0.88	0.01	0.13	1.28	0.16	0.0068	*
P12273	PIP	1.35	0.01	0.48	-3.33	-0.01	-0.83	2.16	1.64	1.12	2.08	2.89	0.96	0.14	-0.45	-0.16	0.34	0.049	*
P09341	GROA	-0.33	0.49	-1.76	-2.74	0.49	0.33	0.47	1.91	1.38	2.68	2.59	0.01	0.35	0.85	1.25	0.20	0.0091	*
P30050	RL12	0.75	0.07	-0.79	0.24	-0.11	-0.07	1.45	0.17	1.49	1.06	-0.19	1.03	0.94	2.10	0.06	1.21	0.016	*
Q12765	SCRN1	-0.30	0.75	-0.28	-1.33	1.24	0.28	-0.27	1.28	1.16	1.29	0.37	0.74	0.63	1.24	1.46	0.94	0.036	*
P49321	NASP	-0.14	0.09	-0.38	-0.09	1.18	0.16	0.99	1.07	1.29	1.04	0.78	1.30	1.04	1.03	1.48	1.25	0.00012	***
Q9UJC5	SH3L2	-1.95	0.45	-0.80	-0.45	1.16	0.61	-0.13	1.25	1.04	1.27	0.91	1.20	0.88	1.65	0.92	1.11	0.011	*
P00738	HPT	-0.16	-2.85	-0.37	0.33	0.16	0.85	1.20	-0.20	1.55	1.12	1.91	1.01	2.13	0.76	0.24	-0.02	0.024	*
Q8NBJ4	GOLM1	0.53	0.06	-0.06	-1.69	1.06	-0.70	1.32	1.99	2.17	2.24	0.89	1.25	-0.13	-0.57	0.15	0.51	0.045	*
Q6P5S2	LEG1H	-0.03	0.84	0.03	-2.06	0.37	-0.14	2.84	0.94	1.21	1.86	2.92	1.22	0.58	-1.24	0.18	0.65	0.05	*
Q9BUF5	TBB6	-0.16	-1.04	-0.32	0.16	1.16	0.94	1.11	0.00	1.36	1.64	0.67	0.20	1.04	1.57	0.62	1.73	0.028	*
P13667	PDIA4	-0.19	1.27	-0.13	-0.69	0.36	0.13	1.64	1.13	0.12	2.44	-0.26	1.03	0.41	2.23	1.13	0.49	0.047	*
Q8WXI7	MUC16	-0.03	-0.32	0.03	-1.94	0.35	0.10	0.78	1.40	1.54	2.49	1.92	0.52	0.71	-0.76	1.84	-0.72	0.027	*
Q96C86	DCPS	0.41	0.46	-1.29	-1.23	0.47	-0.41	-0.03	-0.85	1.32	1.22	0.09	1.87	0.98	0.57	1.31	1.19	0.029	*
Q13162	PRDX4	0.64	0.91	-0.35	-1.75	0.35	-0.81	2.40	0.38	1.28	2.36	0.84	1.59	0.60	1.94	0.94	0.97	0.0035	**
P62081	RS7	0.71	0.23	-0.60	0.16	-0.16	-0.67	1.45	0.81	1.81	1.78	0.50	1.15	-0.72	1.39	0.33	1.08	0.022	*
Q9H853	TBA4B	0.84	-1.03	-0.45	-0.31	0.74	0.31	1.39	-0.46	1.67	2.50	0.30	0.21	0.54	1.15	1.09	1.19	0.04	*
Q96HE7	ERO1A	-0.01	1.39	-0.55	0.21	0.00	0.00	1.41	0.12	0.28	1.86	0.10	1.57	1.21	1.84	1.04	0.14	0.048	*
Q13153	PAK1	-0.34	0.89	-0.35	-0.78	1.55	0.34	0.81	0.82	1.49	1.55	0.81	1.12	1.11	1.14	1.92	1.43	0.0062	*
P82970	HMGN5	-1.36	-0.34	0.34	-1.87	1.39	1.09	-0.17	1.72	0.87	1.39	0.40	0.31	0.37	1.48	1.66	1.75	0.045	*
Q9BTT0	AN32E	-0.19	0.19	-0.41	-1.07	0.79	0.60	0.89	0.34	1.59	1.11	0.68	1.16	1.03	1.52	1.38	1.64	0.00091	**
Q8NCL4	GALT6	0.14	-0.14	0.14	-1.62	1.07	-0.78	0.64	1.39	1.19	2.63	1.98	0.86	1.10	0.38	1.19	-0.53	0.014	*
Q86SF2	GALT7	0.35	-0.31	-0.29	1.12	0.29	-1.08	1.30	1.42	1.56	2.95	2.35	0.41	-0.42	0.03	1.00	0.34	0.045	*
Q9NQ48	LZTL1	-0.86	0.41	-0.41	-1.07	1.26	0.58	0.76	1.03	1.36	1.52	0.60	0.50	0.83	1.32	1.28	1.32	0.0047	**
Q8NBS9	TXND5	-0.13	-0.73	0.82	1.01	-0.23	0.13	1.30	0.43	1.03	1.51	1.39	1.97	0.55	1.84	0.23	0.90	0.0087	*
P12277	KCRB	0.67	0.35	-0.35	-1.49	0.74	-1.51	1.91	1.11	1.64	1.50	1.12	1.21	-0.96	0.59	2.93	0.96	0.014	*
Q96DG6	CMBL	-0.45	0.45	-0.71	-0.90	1.32	0.53	-0.22	1.53	1.25	1.15	0.47	1.19	0.73	1.30	1.39	1.05	0.016	*
P29966	MARCS	-1.09	1.61	-0.98	-0.35	1.36	0.35	0.82	1.81	1.27	2.19	0.97	1.26	0.14	0.68	1.75	1.08	0.031	*
Q9Y2A7	NCKP1	0.54	-0.54	-0.61	-0.69	1.51	1.61	1.40	0.75	1.50	1.79	0.67	1.02	1.34	1.32	0.66	0.72	0.046	*
Q5SRE7	PHYD1	0.49	0.33	-0.33	-1.41	1.21	-0.56	0.42	0.46	0.44	1.77	1.17	1.25	1.28	0.93	1.46	1.77	0.0063	*
Q05315	LEG10	0.02	-0.46	0.14	-0.02	0.35	-0.82	3.43	-0.41	1.24	0.49	1.17	0.66	1.80	1.63	0.99	2.57	0.0068	*
Q6PCE3	PGM2L	-0.75	0.95	-0.62	-0.96	1.23	0.62	0.52	0.58	1.09	1.22	0.49	1.68	1.67	1.63	1.19	1.33	0.0098	*
Q13263	TIF1B	1.23	-0.47	0.01	-1.31	0.93	-0.01	2.00	0.28	1.78	1.31	0.34	1.43	1.10	1.02	-0.14	1.71	0.026	*
P34913	HYES	-0.81	0.19	-0.36	-0.19	1.77	0.53	1.02	0.10	1.74	1.76	0.72	0.81	1.07	1.36	1.84	1.66	0.014	*
Q15102	PA1B3	-0.22	0.22	-0.52	-0.80	0.94	0.30	0.25	-0.64	1.41	1.21	0.30	1.49	1.26	0.85	1.23	1.41	0.022	*
Q9Y230	RUVB2	-0.08	-0.61	0.08	-0.65	0.99	0.55	1.42	0.81	1.97	1.73	0.66	0.65	1.04	1.62	0.30	1.78	0.0024	**
Q13630	FCL	0.13	0.47	-0.70	-0.60	0.99	-0.13	1.14	0.27	1.53	1.87	0.03	1.55	1.40	1.32	0.65	0.75	0.0061	*
Q9H977	WDR54	-1.94	0.59	-0.59	-1.78	1.03	0.69	0.15	1.42	1.34	1.38	0.71	0.38	0.35	2.10	1.14	1.31	0.013	*
P02144	MYG	-1.36	1.04	-0.67	-1.46	1.43	0.67	0.83	1.34	1.67	2.05	0.83	1.70	0.91	0.59	1.13	2.02	0.0086	*
P49247	RPIA	-1.08	0.98	-1.31	-0.30	0.89	0.30	0.71	-0.30	1.61	2.07	0.81	2.45	2.57	1.13	1.34	1.05	0.0088	*
P26885	FKBP2	-0.41	1.54	-0.52	-1.73	0.86	0.41	1.22	1.46	0.49	2.19	0.46	1.26	0.54	2.26	1.48	0.85	0.019	*
P50851	LRBA	-0.37	0.51	-0.57	-0.41	1.01	0.37	1.24	-0.12	1.25	2.05	0.70	1.25	1.56	1.58	1.02	1.40	0.0032	**
O43252	PAPS1	-0.04	-0.32	0.04	-0.41	0.07	0.35	1.37	0.83	1.32	1.74	0.70	1.28	1.14	1.23	-0.05	1.87	0.00022	***
P80303	NUCB2	-0.27	0.62	0.27	-1.04	1.26	-0.43	1.36	1.59	1.59	3.05	1.62	1.15	0.82	0.44	0.71	0.32	0.012	*
Q16674	MIA	1.22	0.12	-0.12	-1.94	1.13	-1.13	1.78	2.52	3.13	3.22	2.15	0.05	0.74	0.42	0.33	0.57	0.023	*
Q9BS40	LXN	-0.77	-0.02	0.02	-0.99	1.50	0.93	0.56	2.06	1.78	1.34	1.13	1.20	1.51	2.17	0.52	1.05	0.0059	*

eTable 1, continued

Uniprot #	Uniprot ID	A1	A2	A3	A4	A5	A6	E1	E2	E3	E4	E5	E6	E7	E8	E9	E10	t-test	Significance
Q08623	**HDHD1**	-0.21	1.01	0.07	-0.07	-0.35	0.74	-0.39	1.40	0.43	1.01	1.15	1.53	1.59	1.40	0.80	1.74	0.016	*
O95994	**AGR2**	-1.72	0.33	-0.33	-0.66	1.38	0.54	2.09	0.64	0.13	3.20	-0.63	1.09	0.77	3.08	1.54	1.46	0.034	*
Q14376	**GALE**	0.21	0.38	-0.78	-0.80	0.83	-0.21	1.51	-0.84	1.50	2.17	0.25	1.01	1.24	2.03	0.70	1.39	0.015	*
P07738	**PMGE**	-2.49	-0.43	-2.44	0.43	0.90	0.48	-0.38	0.25	2.04	2.70	-0.47	4.28	3.84	1.50	1.12	0.62	0.022	*
Q9Y265	**RUVB1**	-0.12	-0.44	0.12	-0.64	1.17	0.65	1.54	0.63	2.24	1.93	0.74	0.75	1.16	1.71	0.53	1.90	0.0032	**
Q8N4F0	**BPIB2**	0.90	-0.11	0.11	-3.87	1.26	-1.67	2.35	0.72	3.46	3.24	2.66	1.70	0.97	-0.38	-1.01	1.00	0.032	*
Q8WYR4	**RSPH1**	-1.13	0.70	0.26	-0.26	0.46	-0.45	0.94	1.75	1.31	1.41	1.30	0.55	1.56	1.86	0.81	2.13	0.00023	**
Q4LDG9	**DNAL1**	-1.24	1.49	-0.36	-2.41	1.70	0.36	0.56	1.88	1.41	1.78	0.56	0.13	0.53	2.13	1.61	1.34	0.042	*
O75800	**ZMY10**	-2.97	-4.96	-0.38	0.85	1.66	0.38	0.93	1.23	2.30	1.41	1.16	1.36	1.61	2.60	1.20	2.26	0.0085	*
P00740	**FA9**	-0.03	-1.52	0.19	1.40	-1.18	0.03	0.86	1.43	1.11	0.70	1.38	2.29	3.21	1.61	-1.51	1.53	0.03	*
Q9NPH2	**INO1**	-1.17	0.36	-0.24	-0.27	1.67	0.24	1.72	1.10	1.45	1.35	1.38	1.87	1.29	1.01	2.34	1.44	0.00089	**
Q14247	**SRC8**	-0.96	0.73	-0.45	-0.41	1.46	0.41	1.07	1.40	1.44	1.70	0.68	1.19	0.86	1.47	1.52	1.49	0.0022	**
P68371	**TBB4B**	0.22	-0.78	-0.22	-0.25	1.47	0.86	1.71	0.10	2.21	2.79	1.01	0.97	1.20	1.61	1.24	1.86	0.0073	*
Q96QR1	**SG3A1**	0.41	-1.12	-0.55	-0.41	0.96	0.41	1.61	0.92	1.30	3.14	1.90	1.91	1.15	-0.40	1.55	-0.06	0.014	*
P32119	**PRDX2**	-1.43	-0.37	-0.69	0.37	1.37	0.72	0.54	0.39	2.51	3.30	0.33	3.73	3.50	0.41	1.68	1.19	0.018	*
Q92871	**PMM1**	-1.65	1.33	-1.01	-1.52	1.52	1.01	0.99	1.33	1.55	0.99	0.73	0.33	1.88	2.48	2.01	2.25	0.015	*
Q9UN36	**NDRG2**	-1.57	0.37	-0.72	-0.27	1.57	0.27	1.34	0.74	1.47	1.23	0.91	1.66	1.44	2.24	1.73	1.60	0.0013	**
P00568	**KAD1**	-0.11	0.11	-0.33	-0.56	1.49	0.60	0.10	1.72	2.17	1.35	0.90	1.63	1.44	1.47	1.51	1.18	0.0033	**
Q5XUX1	**FBXW9**	-1.01	0.58	-0.45	-0.37	0.99	0.37	0.43	1.01	1.87	1.53	0.97	1.18	1.75	1.97	1.48	1.44	0.00057	**
Q16222	**UAP1**	-1.56	0.51	-0.51	-0.97	1.46	0.78	1.03	1.05	1.50	1.52	0.70	1.52	1.43	2.32	1.81	1.34	0.0025	**
P47929	**LEG7**	0.38	-1.29	0.22	0.28	-0.22	-0.71	2.51	-0.58	2.17	1.37	0.68	2.39	1.52	1.43	0.07	2.54	0.0048	**
Q8NEU8	**DP13B**	-0.07	0.78	-0.56	-2.16	0.94	0.07	0.60	-0.50	1.15	2.02	1.44	1.87	1.49	0.52	2.08	1.84	0.011	*
Q06210	**GFPT1**	0.90	-0.46	-0.11	0.42	0.11	-0.12	2.68	1.28	1.61	2.39	0.84	1.58	0.77	2.29	0.61	1.37	0.00078	**
P16870	**CBPE**	0.48	0.15	-0.15	-0.26	0.61	-1.80	1.42	1.54	1.79	2.61	2.78	1.70	0.88	0.60	-0.16	-0.10	0.01	*
P02675	**FIBB**	-1.67	-1.13	0.51	-0.49	0.49	0.63	1.88	-0.29	1.84	1.30	0.93	1.69	1.84	2.22	0.72	1.24	0.0021	**
P52272	**HNRPM**	1.12	-0.37	-0.24	0.24	0.75	-0.31	2.48	0.40	2.09	2.55	0.37	1.57	1.47	2.06	0.19	0.63	0.015	*
P02679	**FIBG**	-1.75	-1.12	0.53	-0.42	0.42	0.65	1.74	-0.20	1.76	1.23	1.05	1.76	1.90	2.27	0.68	1.31	0.0018	**
P06454	**PTMA**	-0.45	1.05	-0.76	-0.42	1.56	0.42	0.88	2.20	1.63	1.68	0.40	0.72	0.72	1.43	1.99	1.68	0.012	*
Q8WW22	**DNJA4**	-0.27	0.33	-1.55	-0.10	1.52	0.10	1.43	1.77	2.07	2.12	0.78	1.66	1.17	1.17	0.85	1.83	0.0012	**
P00325	**ADH1B**	0.39	-0.39	-4.40	0.92	0.44	-0.86	-0.05	-0.10	1.10	2.18	3.81	4.69	3.10	-0.48	2.00	0.49	0.028	*
P02671	**FIBA**	-1.59	-0.88	0.30	-0.30	0.55	0.86	1.51	-0.23	2.19	1.61	1.19	2.06	2.24	2.52	0.91	1.45	0.0015	**
P08727	**K1C19**	0.28	-0.28	-1.66	0.83	0.59	-2.22	3.34	1.03	2.56	2.82	0.69	1.56	1.57	2.37	-0.18	1.30	0.0029	**
O43175	**SERA**	-1.14	0.33	-0.30	-1.28	1.46	0.30	1.41	0.93	1.88	2.08	1.73	2.40	0.76	1.29	2.28	1.17	0.00074	**
P80188	**NGAL**	0.40	-0.62	0.13	-1.09	-0.01	0.01	1.89	1.61	1.54	2.85	2.56	0.00	0.80	-0.05	1.74	-0.25	0.0091	*
P18124	**RL7**	1.92	0.90	-1.38	0.00	0.00	-1.60	1.69	0.27	2.11	1.72	0.36	1.79	1.48	2.90	0.72	1.48	0.015	*
P22792	**CPN2**	-1.27	-1.25	0.48	2.94	-0.48	0.59	1.22	0.51	1.47	1.68	1.62	3.47	3.17	1.98	-0.45	1.57	0.05	*
Q8WWF8	**CAPSL**	-1.04	-0.05	-0.14	0.65	1.26	0.05	0.96	1.88	1.63	2.39	1.12	1.04	1.59	1.56	1.62	2.36	0.00033	***
Q13509	**TBB3**	-0.02	-0.83	0.02	-0.20	1.08	0.67	1.69	0.19	1.84	2.69	1.12	1.33	1.54	1.89	1.07	2.04	0.0011	**
P05089	**ARGI1**	1.27	-0.09	0.09	1.58	-0.40	-0.14	1.92	0.50	1.66	1.11	2.02	2.54	1.56	-0.27	1.93	1.16	0.03	*
P10153	**RNAS2**	-0.09	0.09	0.53	0.26	-0.89	-2.82	3.47	1.64	1.13	0.91	2.46	0.40	1.40	1.65	1.60	2.15	0.00099	**
Q8N1V2	**CFA52**	-1.65	1.02	-0.47	-0.86	1.60	0.47	-0.31	1.71	1.50	2.12	1.53	0.92	1.26	1.96	1.73	1.94	0.01	*
P80108	**PHLD**	-0.79	-1.37	-0.18	3.42	0.18	0.25	1.77	1.43	2.45	1.37	1.18	4.02	4.41	2.91	-0.76	1.49	0.045	*
P39023	**RL3**	1.67	1.15	-0.66	-0.05	0.05	-1.15	1.85	0.88	2.01	1.67	-0.15	2.35	1.62	2.78	0.99	1.61	0.011	*
O75891	**AL1L1**	-1.32	0.29	-0.60	-0.29	2.24	0.32	1.68	-0.05	1.59	3.42	1.18	2.62	1.62	3.18	2.88	0.98	0.0083	*
P40123	**CAP2**	-1.03	1.06	-0.81	-2.36	1.95	0.81	0.85	1.02	1.78	1.79	0.54	1.35	1.52	1.89	1.84	2.25	0.013	*
Q8WVF1	**OSCP1**	-1.07	0.65	-0.33	-2.21	1.31	0.33	0.62	0.15	1.85	2.01	1.57	0.99	1.35	2.20	1.78	2.08	0.0037	**
P46778	**RL21**	1.82	0.71	-1.55	-0.42	0.42	-1.69	1.04	0.86	2.04	1.87	0.19	1.89	1.63	3.01	0.69	1.77	0.0096	*
P08729	**K2C7**	0.18	0.93	-0.36	1.64	-0.18	-0.24	3.23	1.81	1.63	2.18	0.40	1.87	1.48	2.20	-0.49	1.00	0.029	*
P05109	**S10A8**	0.31	0.45	0.52	-0.52	-1.73	-0.31	3.56	2.17	2.40	1.29	2.90	0.40	0.96	-0.23	2.17	-0.20	0.011	*
P02652	**APOA2**	0.82	-0.61	-0.66	2.11	-0.64	0.61	1.31	1.80	1.68	1.61	1.71	3.88	3.35	2.40	-1.31	2.46	0.03	*
P36952	**SPB5**	-2.05	0.24	-0.24	-0.68	0.37	1.17	1.54	-0.07	2.02	1.98	0.08	0.92	0.76	2.37	2.50	2.48	0.0072	*
P0DJI8	**SAA1**	0.47	-1.13	-0.47	1.35	-2.21	0.69	-0.08	0.62	2.61	1.76	1.98	3.36	4.45	1.77	1.19	-1.30	0.036	*
P31431	**SDC4**	0.92	-1.31	0.45	0.99	-0.45	-1.81	-0.18	1.52	2.34	1.77	1.08	2.33	1.78	1.92	0.71	2.56	0.0033	**
P48594	**SPB4**	-1.03	-1.72	1.03	-1.65	1.64	1.22	0.67	1.99	1.51	2.57	1.56	2.56	1.37	1.35	2.38	2.55	0.0033	**
P49788	**TIG1**	0.28	1.15	0.80	-0.69	-0.37	-0.28	2.21	0.88	2.68	2.93	3.37	-0.24	1.39	1.40	2.49	0.64	0.0079	*
P08246	**ELNE**	0.25	-0.85	1.31	0.36	-1.80	-0.25	4.63	3.53	1.85	1.74	3.51	0.21	1.67	-0.80	2.85	0.23	0.018	*
Q9H1X1	**RSPH9**	-1.22	1.29	0.27	-1.39	1.54	-0.27	1.66	1.54	2.02	2.22	1.26	1.30	1.96	2.29	1.69	2.54	0.00071	**

eTable 1, continued

Uniprot #	Uniprot ID	A1	A2	A3	A4	A5	A6	E1	E2	E3	E4	E5	E6	E7	E8	E9	E10	t-test	Significance
P54652	**HSP72**	-0.72	0.70	0.06	-0.06	1.66	-0.54	0.76	2.48	1.61	2.06	1.28	2.39	1.42	1.24	2.54	2.43	0.0007	**
P20061	**TCO1**	0.67	-0.34	0.34	-3.40	0.90	-0.81	2.18	2.12	2.16	2.96	2.63	1.56	1.06	0.03	0.14	0.48	0.0093	*
O43866	**CD5L**	-1.13	-1.35	-0.09	1.78	0.09	1.68	0.75	1.71	1.97	3.20	1.00	4.67	3.74	4.47	0.78	0.92	0.014	*
Q9H4B7	**TBB1**	1.48	-2.35	-0.65	0.65	1.85	-9.17	2.40	0.53	2.58	3.01	1.74	1.48	1.50	2.23	0.93	1.96	0.028	*
P48595	**SPB10**	-1.05	-0.65	0.65	-1.97	1.06	1.14	1.04	1.69	1.41	2.67	2.02	2.36	0.92	1.44	2.39	2.66	0.00092	***
Q5TD94	**RSH4A**	-1.29	0.06	0.25	-0.42	1.12	-0.06	1.42	1.72	1.78	2.21	1.35	1.97	2.26	2.49	1.15	2.71	<0.0001	****
P00966	**ASSY**	-1.07	-0.47	-0.29	0.29	1.20	0.42	3.14	0.20	2.35	2.50	0.86	1.85	1.28	2.02	1.73	1.92	0.00098	***
Q02878	**RL6**	2.15	0.97	-1.14	-0.09	0.09	-1.38	1.95	0.38	2.26	1.86	0.25	2.09	1.93	2.99	0.76	1.64	0.015	*
Q13247	**SRSF6**	2.19	-0.97	0.67	0.14	-0.14	-0.48	2.56	1.40	2.12	1.70	0.70	1.58	2.10	2.37	-0.60	2.25	0.019	*
Q14894	**CRYM**	-0.61	-1.34	0.18	-0.18	0.92	1.30	3.17	-0.77	2.87	3.12	1.38	2.14	1.83	1.93	1.91	1.61	0.0047	**
P19012	**K1C15**	-0.80	0.80	-1.46	0.99	1.12	-1.36	3.83	1.11	3.02	3.28	1.08	2.00	1.23	2.76	0.23	1.86	0.0032	**
P29508	**SPB3**	-0.96	-1.36	0.96	-1.67	2.16	1.52	0.47	2.14	1.64	2.84	1.73	2.33	1.58	1.51	3.10	2.82	0.007	**
P36578	**RL4**	2.43	0.33	-0.07	-0.27	0.07	-1.11	2.04	0.84	2.42	2.18	0.50	1.94	1.54	3.30	0.92	1.95	0.0089	**
P02743	**SAMP**	0.05	-1.54	-0.38	1.13	-0.05	0.68	1.03	2.25	1.76	1.43	2.55	2.98	3.38	2.13	-1.03	0.73	0.011	*
P59665	**DEF1**	0.76	-1.50	1.17	0.47	-2.62	-0.47	4.79	1.21	2.79	2.10	4.44	0.97	1.89	-0.70	2.80	-0.12	0.015	*
P80723	**BASP1**	0.52	2.27	-0.41	-0.22	0.22	-0.65	1.95	3.72	2.71	2.87	2.05	1.93	-0.72	0.96	1.44	2.50	0.016	*
Q96BQ1	**FAM3D**	0.79	0.28	-0.53	-0.91	1.60	-0.28	2.43	2.73	3.03	3.08	2.81	1.49	1.60	0.91	1.07	0.71	0.0019	**
Q8N142	**PURA1**	-1.20	1.30	-5.21	-2.40	1.73	1.20	1.11	0.44	1.26	2.62	1.02	1.94	2.25	2.68	2.45	2.08	0.013	*
P05090	**APOD**	-0.21	-0.23	-0.02	2.02	0.02	0.48	1.43	1.20	1.90	2.77	2.14	3.71	3.20	2.47	1.06	1.11	0.0021	**
Q92743	**HTRA1**	1.77	0.10	-0.10	-4.31	0.35	-1.15	2.43	2.30	2.69	2.80	3.05	1.74	0.88	0.27	-0.40	0.73	0.016	*
P02647	**APOA1**	-0.13	-1.03	-0.52	1.73	0.13	0.92	2.03	0.59	2.29	2.47	1.66	3.84	3.17	2.04	-0.91	1.85	0.016	*
P49913	**CAMP**	0.91	-0.83	0.83	2.32	-3.27	-1.10	4.40	1.82	2.09	2.26	4.45	2.02	2.11	0.08	2.62	-0.24	0.017	*
P06702	**S10A9**	1.22	1.31	0.46	-0.46	-2.20	-0.88	4.05	2.57	2.86	2.20	3.84	1.68	0.75	-0.73	2.03	1.01	0.012	*
P05787	**K2C8**	0.95	-0.48	-1.14	0.48	0.92	-0.87	3.75	0.94	3.20	3.56	1.29	2.22	2.01	2.88	-0.26	1.76	0.0028	**
O43852	**CALU**	-0.22	1.39	-2.37	-0.30	1.46	0.22	2.06	2.34	2.36	3.73	2.22	2.11	1.98	2.71	1.05	1.57	0.00093	***
P25815	**S100P**	-0.14	-0.13	0.13	-1.15	1.17	0.92	3.49	2.51	2.55	3.32	1.51	1.62	1.87	2.69	1.71	1.09	0.00019	****
P22894	**MMP8**	-0.75	-0.63	0.85	0.63	0.84	-1.52	3.25	2.16	2.22	1.85	4.36	0.97	2.59	-0.29	2.97	1.35	0.0028	**
P09238	**MMP10**	-1.14	-0.90	2.02	-1.08	0.90	1.12	1.74	2.79	1.70	3.36	4.76	3.36	1.90	-0.01	2.50	0.19	0.014	*
P55060	**XPO2**	1.12	-0.33	0.98	0.13	-0.39	-0.13	4.18	2.37	2.16	2.52	4.01	0.70	0.72	0.52	3.04	0.69	0.0087	**
P05164	**PERM**	0.24	-0.01	0.67	0.01	-1.97	-0.58	4.40	2.93	2.13	2.38	4.62	0.56	0.86	-0.84	3.02	-0.75	0.021	*
P01871	**IGHM**	-0.91	-1.28	-0.14	0.50	0.14	0.82	0.28	2.17	1.02	2.89	2.37	2.95	1.87	2.83	1.41	2.41	0.00024	****
O14791	**APOL1**	-1.03	-0.50	-0.42	2.08	0.81	0.42	1.11	-0.37	2.63	2.66	1.66	4.89	4.73	2.60	-0.91	1.95	0.046	*
P12724	**ECP**	0.89	0.05	-0.25	-0.01	0.01	-1.70	4.20	2.01	2.28	2.39	3.74	0.91	2.29	0.67	1.89	2.97	0.00031	****
O00533	**NCHL1**	-1.19	0.74	-1.11	-0.59	1.48	0.59	2.15	2.78	2.47	2.76	2.22	2.31	2.89	2.60	2.19	2.25	<0.0001	****
P15169	**CBPN**	-2.06	-0.73	0.10	3.98	-0.10	1.23	1.98	1.35	2.49	2.61	1.86	4.73	4.42	2.99	0.00	2.37	0.029	**
P35542	**SAA4**	-1.65	-0.42	-0.31	2.11	0.31	1.41	1.94	0.66	2.71	2.72	1.72	4.62	4.25	3.44	-0.06	2.27	0.01	*
P27169	**PON1**	-1.08	-1.90	0.05	3.05	-0.05	0.71	1.72	0.83	3.13	2.86	2.01	4.53	4.32	2.82	-1.60	2.34	0.031	*
P05783	**K1C18**	0.27	-1.99	-3.02	0.19	1.17	-0.19	3.22	0.85	2.80	3.32	0.36	3.31	2.70	3.27	-0.77	2.43	0.0033	**
O60814	**H2B1K**	1.92	-0.39	1.55	0.39	-0.90	-0.55	5.41	3.85	2.76	3.28	5.86	0.39	0.69	0.81	4.42	0.54	0.02	*
Q96FV0	**LRC46**	-1.53	0.48	-0.48	NA	3.23	1.97	2.41	3.03	3.90	3.69	1.88	3.04	2.39	3.15	3.53	3.44	0.0019	**
P62805	**H4**	1.90	-0.63	2.23	0.63	-1.60	-1.36	5.73	3.17	3.07	4.05	5.83	0.93	1.27	0.71	4.86	1.06	0.011	*
P24158	**PRTN3**	0.15	-0.61	0.95	0.00	0.00	-0.73	4.10	2.29	3.18	3.52	4.29	1.21	3.14	0.09	3.60	0.21	0.0016	**
P14780	**MMP9**	0.15	0.03	-0.03	0.53	-0.99	-1.56	4.55	3.16	3.74	2.44	4.87	1.62	3.39	1.22	3.99	0.07	0.00034	****
O75594	**PGRP1**	0.06	1.33	0.27	-0.06	-0.29	-0.65	4.70	4.47	3.29	2.91	6.09	1.38	3.76	0.83	4.55	0.96	0.00095	***
P20700	**LMNB1**	0.04	1.31	-0.53	4.25	-0.14	-0.04	3.76	4.33	3.15	3.47	4.53	2.72	3.78	1.14	3.59	0.67	0.0096	**
P46439	**GSTM5**	-1.09	-2.24	1.05	-1.05	5.50	4.83	3.81	3.07	4.15	3.83	3.43	3.73	3.62	4.40	4.60	3.17	0.024	*

eTable 2

Uniprot #	Uniprot ID	A1	A2	A3	A4	A5	A6	E1	E2	E3	E4	E5	E6	E7	E8	E9	E10	t-test	Significance
O75558	STX11	2.02	-1.02	0.01	0.43	-1.11	-0.01	NA	-0.91	-3.61	-3.73	-1.10	NA	NA	NA	0.37	NA	0.018	*
O94788	AL1A2	2.82	-2.59	0.01	-4.51	0.79	-0.01	-2.59	-3.04	-6.96	-5.51	-4.38	-3.49	-7.48	-2.70	0.73	-5.15	0.016	*
Q03135	CAV1	0.72	-2.08	0.02	0.05	-1.71	-0.02	-4.14	-1.43	-3.37	-3.76	-1.10	-2.43	-4.99	-4.30	-4.10	-2.83	0.00068	**
P16885	PLCG2	1.09	1.12	-0.23	0.23	-0.46	-0.77	-1.90	-4.35	-1.91	-3.27	NA	-3.51	-1.88	-3.40	-2.96	-3.77	0.00019	***
Q5TEJ8	THMS2	1.08	0.02	-0.02	0.52	-0.62	-0.41	-1.17	-2.99	-2.71	-3.56	-3.08	-5.05	-4.94	-4.80	-2.73	-5.55	<0.0001	****
Q9NZN4	EHD2	-0.23	-3.61	0.44	0.29	-2.77	0.23	-4.05	-0.89	-2.47	-4.54	-0.83	-2.83	-5.39	-4.71	-3.41	-3.15	0.017	*
Q567U6	CCD93	2.08	0.19	0.78	-0.19	-0.61	-0.72	-0.38	-3.50	-0.98	-0.96	-3.69	-3.28	-2.71	-3.02	NA	-4.55	0.0029	**
P16284	PECA1	0.55	-1.48	-0.25	0.27	-0.82	0.25	-3.70	-0.30	-5.51	-4.10	-0.77	-3.87	-2.42	-3.80	-1.85	-1.43	0.0039	**
Q9NZN3	EHD3	0.69	-0.71	-0.03	0.03	-0.94	0.35	-2.74	-1.36	-1.95	-3.34	-0.32	-4.24	-3.42	-3.47	-0.58	-3.70	0.0013	**
O00757	F16P2	1.17	1.28	-0.14	-1.09	-0.13	0.13	-1.23	-1.60	-2.19	-3.26	-4.00	-6.49	-5.88	-3.58	-1.19	-2.79	0.00084	**
Q93033	IGSF2	1.09	-2.63	-0.17	0.17	-3.30	0.38	-3.51	-1.58	-3.56	-3.80	-1.70	-2.73	-2.93	-4.81	-0.83	-3.12	0.013	*
Q9NY47	CA2D2	0.31	-1.13	0.84	0.99	-2.45	-0.31	-3.13	-0.18	-3.56	-5.47	0.80	-1.07	-3.57	-3.10	-2.69	-1.02	0.039	*
P09467	F16P1	0.95	1.09	-0.06	-1.00	-0.09	0.06	-1.15	-1.46	-2.07	-2.99	-4.11	-5.57	-5.15	-3.62	-1.12	-2.71	0.00053	**
Q9ULV4	COR1C	0.36	0.66	-0.04	-0.77	-0.78	0.04	-1.35	-2.71	-2.53	-3.56	-2.78	-4.38	-3.77	-2.71	-1.50	-2.87	<0.0001	****
Q9NZK5	ADA2	-1.83	0.47	0.37	0.71	-1.78	-0.37	-0.73	0.20	-2.82	-4.18	-0.19	-2.03	-3.58	-3.48	-2.97	-2.63	0.023	*
Q8NFJ5	RAI3	0.59	-3.93	0.57	-0.33	-1.04	0.33	-2.48	-1.36	-2.93	-5.31	-0.64	-3.12	-4.20	-5.19	-2.30	-1.71	0.017	*
P13686	PPA5	0.52	1.64	-0.23	-0.34	-2.05	0.23	-0.83	-0.37	-2.89	-2.51	-1.69	-2.74	-3.15	-2.83	-2.07	-3.48	0.0015	**
P15498	VAV	1.87	-1.04	0.26	-0.19	-1.47	0.19	-0.51	-2.89	-1.14	-2.35	-4.17	-1.28	-3.48	-3.08	-2.78	-2.36	0.0014	**
P22897	MRC1	0.41	-2.95	0.39	0.19	-1.56	-0.19	-1.55	-0.66	-2.61	-4.71	0.17	-3.36	-2.79	-4.03	-2.51	-1.37	0.038	*
P20701	ITAL	0.22	-2.94	-0.05	0.92	-2.51	0.05	-2.58	-3.38	-2.00	-2.58	-0.89	-2.14	-2.49	-4.12	-3.43	-1.59	0.013	*
Q53TN4	CYBR1	0.60	-3.01	0.94	-0.24	-1.18	0.24	-3.66	-0.86	-4.11	-4.62	0.48	-2.47	-2.60	-4.47	-2.00	-1.21	0.024	*
Q16831	UPP1	1.59	1.27	0.05	-0.26	-0.67	-0.05	-1.65	-4.37	-2.45	-3.15	-3.84	-3.23	-2.19	-2.03	-0.31	-2.28	0.00012	***
P16070	CD44	-0.41	-2.40	0.59	0.41	-1.03	0.72	-1.91	-0.38	-2.86	-4.48	0.33	-3.20	-2.71	-3.55	-2.17	-1.09	0.022	*
Q14315	FLNC	1.05	0.82	0.21	-1.12	-0.86	-0.21	-1.49	-2.11	-2.45	-3.12	-1.64	-2.95	-2.41	-3.59	-1.27	-3.02	<0.0001	****
Q02487	DSC2	-0.04	-1.68	0.84	1.44	-0.59	0.04	-1.74	-0.10	-2.84	-3.50	0.05	-3.45	-3.32	-3.24	0.59	-1.91	0.02	*
P21695	GPDA	1.07	1.06	-1.17	-0.61	0.02	-0.02	-2.22	-3.66	-2.43	-4.48	-2.73	-4.71	-2.31	-2.25	0.22	-2.16	0.0008	**
P08567	PLEK	1.46	-0.66	0.10	-0.10	0.68	-0.27	-0.91	-0.94	-2.39	-2.97	-2.18	-2.81	-2.28	-4.12	-1.43	-3.06	0.00012	***
Q13642	FHL1	1.28	-0.02	-1.25	0.21	-0.17	0.02	-1.85	-1.17	-2.54	-4.05	-2.44	-1.95	-1.73	-3.12	-2.21	-2.67	<0.0001	****
Q9H2A7	CXL16	0.09	-2.49	0.92	-0.09	-0.90	1.50	-1.46	-0.64	-2.01	-5.39	-0.24	-5.98	-3.44	-4.05	-2.59	-0.96	0.017	*
P21333	FLNA	0.97	0.96	0.13	-1.01	-0.68	-0.13	-1.51	-2.26	-2.20	-3.07	-2.30	-2.83	-2.28	-3.55	-1.26	-3.06	<0.0001	****
P05107	ITB2	-0.53	-1.62	0.61	0.99	-2.84	0.53	-1.03	-1.21	-2.93	-4.29	-0.32	-2.31	-3.69	-2.65	-2.26	-1.74	0.022	*
O14786	NRP1	-0.48	-2.11	0.91	1.05	-1.97	0.48	-1.64	0.07	-3.64	-3.43	0.32	-1.80	-2.63	-3.04	-3.27	-1.41	0.036	*
Q9H6S3	ES8L2	0.74	-2.73	1.39	-0.52	-0.57	0.52	-2.20	-1.06	-2.15	-2.79	-0.18	-2.48	-2.85	-2.64	-1.61	-1.74	0.0076	*
P15090	FABP4	0.86	0.09	-0.09	-0.75	0.74	-0.28	-1.26	-0.88	-1.96	-3.31	-2.54	-3.90	-2.15	-2.34	0.07	-2.14	0.00095	**
P08174	DAF	-0.07	-3.19	0.87	0.07	-1.00	0.74	-1.61	0.05	-2.90	-3.08	0.05	-2.93	-2.65	-3.26	-1.42	-1.62	0.047	*
Q9UI08	EVL	0.76	1.44	-0.93	-1.23	-0.13	0.13	-1.72	-2.16	-1.91	-2.78	-2.85	-2.94	-2.65	-2.07	0.03	-1.97	0.00056	**
P52790	HXK3	1.25	1.12	0.10	-1.08	-0.10	-1.73	-0.99	-2.53	-2.08	-3.56	-2.16	-3.94	-2.17	-1.51	0.34	-1.70	0.0072	*
P40199	CEAM6	0.37	-0.21	0.58	-1.36	-2.49	0.21	-2.04	-0.63	-2.93	-0.37	-0.38	-2.51	-2.41	-2.70	-1.37	-2.12	0.038	*
P56856	CLD18	0.59	-2.09	0.26	0.70	-1.33	-0.26	-3.10	-1.56	-2.64	-3.13	-0.43	-1.83	-4.63	-2.13	-2.02	-2.01	0.004	**
Q9NZA1	CLIC5	-0.14	-2.36	0.55	0.14	-1.29	0.31	-3.10	0.10	-1.41	-3.59	-0.20	-3.79	-2.88	-2.45	-1.67	-1.27	0.033	*
Q14019	COTL1	0.99	0.14	-0.34	-1.29	0.34	-0.14	-1.12	-1.19	-1.20	-3.52	-2.49	-3.22	-2.28	-2.07	0.32	-1.97	0.0035	**
Q03405	UPAR	-0.46	-1.44	0.60	0.46	-0.93	0.97	-1.25	0.27	-2.49	-2.35	0.81	-2.30	-2.41	-2.06	-1.73	-1.94	0.026	*
Q8IWL1	SFPA2	0.69	-2.94	1.32	0.03	-1.21	-0.03	-2.12	-1.43	-2.15	-2.52	-0.68	-2.13	-1.88	-3.29	-0.53	-0.14	0.05	*
O00160	MYO1F	1.43	-0.24	0.24	0.51	-3.35	-0.47	0.10	-0.93	-1.54	-4.12	-2.17	-2.93	-1.81	-3.58	-1.38	-2.51	0.028	*
P33241	LSP1	0.74	0.08	-0.55	-0.75	-0.08	0.40	-0.76	-2.26	-1.51	-2.61	-1.80	-1.98	-2.26	-2.01	0.19	-1.95	0.00068	**
O00560	SDCB1	0.48	-2.57	0.69	0.00	-0.77	0.00	-1.85	-1.27	-1.97	-2.53	-0.56	-2.25	-2.49	-3.15	-1.58	-1.96	0.0046	**
Q8IWA5	CTL2	0.66	-2.26	0.37	-0.09	-1.18	0.09	-1.90	-0.81	-2.41	-2.13	-0.38	-2.02	-2.80	-2.93	-1.46	-1.24	0.012	*
Q86YT9	JAML	-0.58	-2.21	0.58	0.61	-1.58	0.84	-1.59	-0.58	-2.66	-6.09	-0.15	-2.97	-1.86	-3.44	-2.02	-0.70	0.044	*
P29350	PTN6	1.13	0.18	-0.04	-0.02	-0.61	0.02	-0.83	-1.89	-1.81	-2.65	-2.02	-2.15	-1.96	-2.19	-2.13	-2.09	<0.0001	****
Q15080	NCF4	1.15	0.79	-0.21	-0.03	0.03	-0.09	-0.60	-2.85	-1.72	-3.33	-1.42	-2.93	-1.95	-3.00	0.02	-1.89	0.00041	***
P10301	RRAS	0.59	-2.60	0.65	0.07	-1.82	-0.07	-1.90	-0.78	-2.56	-3.49	-0.30	-1.43	-1.73	-2.96	-2.25	-1.93	0.029	*
O15143	ARC1B	0.84	0.71	-0.06	-0.64	0.06	-0.36	-0.54	-2.16	-0.98	-1.69	-2.09	-2.98	-2.97	-2.26	-1.00	-1.73	0.00019	***
P08195	4F2	0.11	-1.49	0.75	0.64	-1.79	-0.11	-1.65	-0.52	-2.00	-2.92	0.16	-1.94	-2.25	-1.93	-1.88	-1.19	0.02	*
Q9HC35	EMAL4	1.30	1.03	0.17	-0.59	-0.95	-0.17	-0.40	-2.04	-1.60	-1.78	-2.60	-2.70	-3.27	-1.87	-1.61	-1.92	0.00019	***
P17900	SAP3	-0.62	0.37	0.54	-0.03	-1.01	0.03	-1.70	-0.90	-2.33	-2.33	1.00	-2.14	-2.09	-3.24	-1.36	-0.80	0.013	*
P35579	MYH9	1.23	-0.08	0.20	-0.32	-0.09	0.08	-0.26	-1.94	-0.58	-0.79	-1.83	-2.63	-2.84	-2.88	-1.20	-2.83	0.00074	**
P21926	CD9	0.12	-1.95	0.11	0.27	-1.22	-0.11	-2.01	-0.89	-2.14	-2.11	0.18	-1.76	-2.43	-2.19	-1.50	-0.91	0.023	*

eTable 2, continued

Uniprot #	Uniprot ID	A1	A2	A3	A4	A5	A6	E1	E2	E3	E4	E5	E6	E7	E8	E9	E10	t-test	Significance
P54922	ADPRH	1.44	1.21	0.00	-0.44	0.00	-0.68	-1.35	-0.87	-1.88	-3.10	-3.04	-3.23	-2.29	-1.73	0.33	-1.78	0.0012	**
P35749	MYH11	1.23	-0.03	-0.08	-1.07	0.03	0.08	-0.08	-1.88	-0.42	-0.46	-1.78	-3.15	-3.06	-2.85	-0.84	-3.25	0.0066	*
Q9Y279	VSIG4	-0.27	-0.97	0.84	0.86	-1.31	0.27	-1.40	0.08	-1.94	-2.81	0.31	-2.69	-1.93	-3.03	-1.68	-1.02	0.016	*
Q9H4A9	DPEP2	0.33	-1.23	1.15	1.51	-1.43	-0.33	-1.58	-0.53	-2.40	-3.27	1.09	-1.99	-2.04	-3.36	-1.60	-1.02	0.024	*
O15511	ARPC5	1.03	0.78	-0.16	-0.76	0.16	-0.18	-0.39	-1.98	-0.76	-1.45	-1.94	-2.45	-2.61	-2.06	-0.76	-1.55	0.00036	***
P19878	NCF2	1.12	1.33	-0.06	-0.01	0.01	-0.39	-0.37	-2.97	-1.56	-2.70	-1.42	-3.00	-1.72	-2.13	0.06	-1.76	0.00062	**
O00182	LEG9	0.71	0.21	0.26	-0.21	-1.26	-0.33	-1.76	-1.08	-1.71	-3.20	-1.33	-2.72	-2.24	-2.13	-0.23	-1.61	0.00091	**
P49407	ARRB1	1.52	-0.39	0.30	0.22	-0.81	-0.22	-0.70	0.07	-1.64	-1.85	-1.62	-1.86	-2.12	-1.90	-0.62	-1.85	0.0017	**
Q08722	CD47	0.06	-2.41	0.46	0.30	-1.45	-0.06	-1.73	-0.45	-2.05	-2.60	-0.42	-1.54	-2.15	-2.70	-1.29	-1.69	0.032	*
Q14520	HABP2	0.55	0.71	-0.72	0.83	-0.55	-1.33	-0.99	-1.94	-1.98	-2.31	-1.43	-1.58	-1.63	-1.76	-0.56	-1.81	0.00066	**
Q86UX7	URP2	0.52	1.16	0.04	-0.04	-0.33	-0.28	-0.96	-2.87	-1.70	-3.00	-1.56	-1.87	-1.47	-2.56	-0.08	-1.64	0.00028	***
O15144	ARPC2	0.96	0.84	-0.10	-0.80	0.10	-0.27	-0.27	-2.02	-0.85	-1.16	-1.64	-2.52	-2.73	-1.92	-0.90	-1.69	0.00059	**
P26038	MOES	0.91	0.42	-0.02	-0.43	-0.10	0.02	-0.84	-0.94	-1.51	-2.54	-1.22	-2.55	-2.74	-2.41	-0.49	-1.80	0.00021	***
Q7KZF4	SND1	1.49	-0.11	0.26	-0.22	-0.87	0.11	0.72	-0.73	-0.83	-0.12	-2.30	-1.76	-2.99	-1.56	-1.90	-2.27	0.013	*
P61158	ARP3	0.94	0.84	-0.06	-0.65	0.06	-0.26	-0.24	-1.95	-0.75	-1.16	-1.59	-2.41	-2.57	-1.88	-0.86	-1.68	0.00048	***
Q16719	KYNU	1.05	1.70	0.18	-0.49	-0.18	-0.65	-0.70	-2.03	-1.02	-2.33	-1.72	-3.18	-2.54	-1.25	0.28	-1.55	0.0022	**
P61160	ARP2	0.84	0.78	-0.10	-0.77	0.10	-0.19	-0.26	-2.29	-0.79	-1.15	-1.67	-2.20	-2.56	-2.01	-0.97	-1.56	0.00043	***
Q9Y696	CLIC4	0.07	0.42	-0.12	0.04	-0.36	-0.04	-1.53	-1.95	-1.70	-2.23	-1.50	-1.78	-1.19	-1.67	0.08	-1.29	<0.0001	****
Q9BW04	SARG	0.22	0.29	0.42	-0.59	-0.31	-0.22	-2.68	-1.87	-1.86	-1.36	-0.51	-1.56	-2.58	-1.63	-0.37	-1.23	0.00044	***
Q3B8N2	LEG9B	0.68	0.11	0.15	-0.11	-1.22	-0.30	-1.64	-1.04	-1.51	-2.87	-1.34	-2.31	-1.74	-2.19	-0.11	-1.56	0.001	**
Q86VB7	C163A	0.04	-0.57	1.50	0.72	-2.17	-0.04	-0.84	0.41	-2.13	-2.49	-0.21	-1.42	-1.78	-3.13	-2.39	-0.29	0.047	*
Q01469	FABP5	0.28	1.11	-0.36	-0.92	0.35	-0.28	-1.65	-0.71	-1.74	-2.20	-1.01	-2.01	-1.76	-1.48	0.30	-1.23	0.0024	**
P26447	S10A4	0.86	0.60	-0.38	-1.09	-0.06	0.06	-1.45	-1.14	-1.50	-2.57	-1.85	-1.69	-1.77	-1.50	0.20	-1.63	0.001	**
A6NGU5	GGT3	1.08	-0.64	-0.28	1.60	-1.02	0.28	-2.81	-0.83	-1.26	-2.24	1.55	-1.84	-2.91	-2.39	-1.05	-0.77	0.022	*
P59998	ARPC4	1.07	0.70	0.00	-0.79	0.00	-0.18	-0.14	-2.16	-0.59	-1.11	-1.64	-2.44	-2.71	-1.89	-0.91	-1.44	0.0011	**
P19367	HXK1	0.52	1.77	-0.52	-1.32	0.14	-0.14	-1.14	-2.89	-1.67	-0.96	-1.64	-1.74	-1.61	-0.65	-0.44	-1.43	0.0037	**
Q15833	STXB2	0.84	0.74	0.10	-0.63	-0.33	-0.10	-1.06	-1.51	-1.48	-1.59	-0.68	-2.13	-1.45	-1.62	0.17	-1.51	0.00066	**
Q9H0Q0	FA49A	0.05	0.89	-1.19	-0.32	-0.05	0.07	-0.96	-2.54	-1.57	-2.43	-0.66	-2.18	-1.37	-1.95	-0.73	-0.57	0.0021	**
Q16348	S15A2	0.12	-0.67	0.04	-0.88	0.06	-0.04	-1.88	-0.33	-1.40	-0.56	-0.19	-1.60	-1.54	-2.09	-0.42	-1.66	0.012	*
Q99536	VAT1	0.64	1.11	-0.16	-0.01	-0.24	0.01	-0.59	-2.10	-1.31	-1.84	-0.93	-1.86	-1.03	-1.62	-0.12	-2.08	0.00025	***
P51606	RENBP	0.11	2.20	-0.11	0.26	-0.27	-0.96	-1.12	-1.49	-1.69	-3.18	-1.78	-2.53	-1.44	-0.86	0.03	-0.92	0.004	**
Q13287	NMI	0.95	1.64	0.23	-1.86	-0.23	-0.63	-1.52	-2.23	-1.40	-0.77	-1.70	-1.95	-1.94	-0.44	0.94	-1.02	0.041	*
P13796	PLSL	0.95	0.43	-0.18	-0.48	0.10	-0.10	-0.65	-1.50	-1.30	-2.67	-0.92	-2.49	-1.62	-2.03	0.27	-1.40	0.0015	**
P27105	STOM	0.02	-1.51	0.60	-0.02	-1.14	0.13	-1.59	-0.61	-1.61	-1.39	0.32	-1.50	-2.03	-2.03	-0.70	-1.37	0.033	*
Q15942	ZYX	0.64	0.17	-0.43	-0.38	-0.17	0.20	-0.64	-3.55	-1.33	-2.76	-1.42	-1.70	-1.34	-1.98	-0.20	-1.44	0.0016	**
P30419	NMT1	0.51	0.52	-0.68	-0.58	0.14	-0.14	-0.74	-0.68	-1.87	-0.75	-1.60	-2.72	-2.90	-1.26	-0.63	-2.27	0.0019	**
O60234	GMFG	0.86	0.84	-0.06	-0.50	0.06	-0.29	-0.53	-1.38	-1.06	-2.69	-1.39	-1.99	-1.39	-1.61	0.54	-1.65	0.0024	**
P41091	IF2G	1.02	-0.38	-0.19	-0.61	0.19	0.30	0.32	-0.98	-1.10	-1.05	-2.82	-2.92	-3.48	-1.42	-1.37	-1.85	0.004	**
P09960	LKHA4	1.48	1.14	-0.21	-0.48	0.21	-0.27	-0.71	-2.80	-1.09	-2.12	-1.42	-2.39	-1.79	-1.34	0.24	-1.27	0.0012	**
O14950	ML12B	1.30	-0.38	0.24	-0.40	-0.14	0.14	-0.06	-0.64	0.00	-0.28	-1.63	-1.87	-2.55	-2.21	-1.11	-1.77	0.0075	*
P60033	CD81	1.15	-1.03	0.51	0.24	-0.62	-0.24	-1.20	-0.88	-2.36	-1.92	0.84	-1.54	-1.72	-2.31	-0.73	-1.13	0.013	*
P50552	VASP	0.18	0.98	-0.62	-0.38	0.00	0.00	-1.19	-1.23	-1.31	-2.20	-1.91	-2.26	-1.29	-1.63	0.35	-1.41	0.001	**
Q99584	S10AD	0.44	0.43	-0.71	-1.25	0.28	-0.28	-1.42	0.87	-0.49	-1.71	-1.90	-1.13	-2.89	-1.29	-0.63	-1.77	0.041	*
P53990	IST1	0.54	-0.11	0.53	-0.35	-0.28	0.11	-1.56	-1.35	-1.44	-1.42	-0.79	-1.03	-1.34	-1.84	0.00	-0.79	0.00022	***
Q14847	LASP1	0.21	0.50	-0.90	-1.36	0.03	-0.03	-1.25	-1.39	-0.88	-1.55	-1.69	-1.71	-1.51	-0.94	-0.46	-0.93	0.0038	**
P35241	RADI	0.06	0.31	0.03	-0.22	-0.57	-0.03	-1.42	0.36	-1.40	-1.28	-0.91	-1.27	-1.94	-1.93	-0.64	-1.34	0.0019	**
P20042	IF2B	1.23	0.00	0.19	-0.49	-0.05	0.00	0.47	-0.75	-0.83	-1.13	-1.56	-1.65	-3.63	-1.46	-1.21	-1.40	0.0065	*
P32455	GBP1	0.09	0.19	-0.82	-0.09	0.19	-1.01	-0.97	-1.60	-0.60	-2.16	-1.29	-1.50	-1.34	-1.75	0.14	-0.72	0.011	*
Q9NQ88	TIGAR	0.51	1.02	0.09	-0.49	-0.38	-0.09	-1.31	-1.31	-1.30	-2.45	-1.79	-1.89	-1.25	-1.06	0.03	-0.85	0.00061	**
Q16555	DPYL2	0.70	0.45	-0.14	0.14	-0.32	-0.45	-1.06	-1.73	-1.02	-2.65	-1.07	-1.69	-1.44	-2.38	0.08	-1.16	0.00084	**
O43776	SYNC	0.31	-0.20	-0.37	-0.85	0.33	0.20	0.07	-0.11	-0.72	0.11	-2.34	-2.14	-3.27	-1.23	-1.38	-1.79	0.03	*
P01903	DRA	1.02	-0.82	0.45	0.49	-1.10	-0.45	-1.16	-0.37	-1.34	-3.54	-0.63	-1.65	-2.57	-3.01	-0.71	-1.24	0.009	*
Q13510	ASAH1	0.71	2.10	0.23	-0.79	-0.67	-0.23	-0.31	-0.27	-1.60	-1.08	-0.28	-1.76	-1.65	-1.49	-0.78	-1.60	0.0076	*
P09382	LEG1	0.53	1.61	-0.33	-0.17	0.17	-0.28	-1.00	-0.90	-1.30	-2.43	-1.24	-1.54	-1.44	-2.10	0.46	-0.92	0.002	*
A6NI72	NCF1B	0.59	1.13	-0.91	0.02	-0.02	-1.15	0.15	-3.92	-0.37	-2.44	-0.77	-2.29	-0.74	-1.76	0.11	-2.24	0.041	*
O60610	DIAP1	0.73	1.14	-0.05	-0.24	0.05	-0.06	-0.51	-1.84	-0.93	-1.46	-1.33	-1.00	-1.29	-1.22	-0.18	-1.53	0.00012	***
Q6IBS0	TWF2	0.63	1.08	-0.02	-0.32	0.02	-0.15	-0.74	-1.32	-1.22	-2.41	-1.14	-1.79	-1.72	-1.29	0.24	-1.17	0.00059	**

eTable 2, continued

Uniprot #	Uniprot ID	A1	A2	A3	A4	A5	A6	E1	E2	E3	E4	E5	E6	E7	E8	E9	E10	t-test	Significance
P14317	HCLS1	1.03	1.45	-0.25	-0.75	0.25	-0.54	-0.56	-1.21	-0.73	-2.20	-1.29	-1.71	-1.37	-1.37	0.61	-0.93	0.0082	*
Q9NVA2	Septin-11	1.19	0.35	-0.20	-1.07	0.20	-0.24	0.05	-1.30	-0.41	-0.08	-1.54	-0.99	-1.44	-1.49	-1.27	-1.23	0.0099	*
Q9UHD8	Septin-9	0.89	0.28	-0.23	-1.07	0.07	-0.07	0.04	-1.27	-0.44	0.07	-1.81	-1.28	-1.68	-1.23	-1.42	-1.23	0.011	*
P43234	CATO	-0.19	-1.17	0.41	0.94	-1.04	0.19	-1.31	-0.63	-1.45	-0.76	0.61	-2.29	-2.54	-2.23	-1.20	-0.17	0.048	*
O15145	ARPC3	1.04	0.92	-0.26	-0.81	0.11	-0.11	-0.02	-1.68	-0.34	-0.56	-1.46	-1.88	-2.67	-1.71	-0.88	-1.01	0.0041	**
P19474	RO52	1.09	0.02	1.09	-0.02	-0.59	-1.70	-0.77	-1.95	-0.25	-1.55	-1.76	-1.07	-0.83	-2.26	-0.37	-1.41	0.014	*
Q9Y5X3	SNX5	1.16	1.16	0.09	-0.09	-0.10	-0.21	-0.75	-2.06	-1.26	-1.81	-1.77	-1.46	-1.21	-1.04	-0.18	-0.88	0.00015	***
P52789	HXK2	0.11	3.04	-0.86	-0.51	-0.11	1.25	-0.49	-2.08	-1.59	-1.06	-2.09	-1.40	-0.30	-0.09	-0.62	-1.78	0.0092	*
P26640	SYVC	0.97	0.82	-0.12	0.12	-0.38	-0.20	-0.15	-1.44	-1.10	-0.40	-1.78	-1.34	-1.97	-1.34	-0.80	-1.00	0.00044	***
P27816	MAP4	0.47	1.27	-0.09	-0.51	0.04	-0.04	-0.78	-0.79	-1.43	-1.08	-1.83	-1.94	-1.99	-0.99	0.29	-1.35	0.0012	**
P05413	FABPH	0.19	2.56	0.32	-1.14	-2.23	-0.19	-1.89	-0.82	-0.79	-2.12	-3.98	-3.44	-1.07	-0.97	-0.32	-1.37	0.039	*
O14879	IFIT3	1.16	-0.01	0.34	0.01	-1.06	-0.07	-1.13	-1.09	-1.00	-1.57	-0.52	-1.84	-1.30	-2.09	-1.09	-1.94	0.00033	***
P29466	CASP1	0.94	0.60	-0.24	-0.17	0.17	-0.34	-0.78	-1.36	-0.56	-1.91	-1.05	-1.70	-1.56	-1.65	0.43	-0.94	0.0018	**
P36543	VATE1	0.85	0.71	0.11	-0.62	-0.11	-0.17	-1.04	-1.68	-1.26	-1.39	-1.52	-0.97	-1.10	-1.13	0.14	-1.44	0.00035	***
O60493	SNX3	0.05	0.56	-0.61	-0.48	0.14	-0.05	-0.94	-1.20	-0.72	-1.38	-1.43	-1.55	-1.19	-1.34	0.34	-0.83	0.0027	**
Q16181	Septin-7	0.93	0.14	-0.14	-0.83	0.19	-0.25	0.05	-1.26	-0.37	-0.14	-1.42	-1.14	-1.65	-1.49	-1.26	-1.00	0.0065	*
Q07812	BAX	0.41	0.26	0.02	-0.02	-0.58	-0.39	-1.20	-0.97	-1.08	-1.35	-0.81	-1.23	-1.34	-1.28	-0.32	-1.18	<0.0001	****
P40121	CAPG	0.83	1.25	-0.06	-0.36	0.06	-0.25	-0.92	-0.97	-1.24	-2.04	-1.11	-2.25	-1.61	-1.57	0.53	-0.75	0.002	**
P67936	TPM4	0.14	1.28	-0.38	-0.55	-0.09	0.09	-0.79	-0.63	-1.15	-1.58	-1.53	-1.21	-1.10	-1.09	0.18	-1.17	0.0021	**
P07951	TPM2	0.29	1.27	-0.58	-0.73	-0.09	0.09	-0.80	-0.77	-1.12	-1.38	-1.68	-1.14	-1.15	-0.97	0.16	-1.44	0.0033	**
P61916	NPC2	0.22	-0.28	0.33	-0.29	-0.21	0.21	-0.90	0.20	-1.35	-1.51	0.43	-2.15	-1.51	-2.38	-0.66	-0.58	0.019	*
O15247	CLIC2	0.85	-0.32	0.32	0.41	-0.91	-1.01	-1.26	-0.06	-1.29	-2.96	-0.81	-1.14	-0.88	-1.84	0.52	-1.13	0.05	*
Q13045	FLII	1.03	-0.42	0.03	0.07	-0.47	-0.03	0.33	-0.68	-0.81	-1.10	-1.31	-2.16	-1.67	-1.16	-1.14	-0.95	0.0038	**
P32456	GBP2	0.43	-0.08	0.08	0.38	-0.30	-0.39	-1.06	-1.45	-1.15	-1.91	-1.37	-0.67	-0.88	-1.64	0.12	-0.90	0.00075	**
Q96L92	SNX27	0.67	1.32	-0.30	-0.75	-0.04	0.04	-1.26	-0.99	-1.15	-1.23	-1.41	-1.53	-1.08	-0.79	0.11	-0.78	0.0015	**
Q7L576	CYFP1	1.15	-0.94	0.29	0.45	-0.40	-0.29	0.12	-1.29	-0.59	-0.64	-1.64	-1.00	-1.84	-0.81	-1.41	-1.22	0.0057	*
P09493	TPM1	0.41	0.45	-0.53	-1.20	-0.15	0.15	-0.42	-0.92	-0.83	-1.44	-1.42	-1.65	-1.58	-1.23	-0.13	-0.98	0.0063	*
P06753	TPM3	0.53	0.65	-0.56	-1.15	-0.13	0.13	-0.42	-0.76	-0.75	-1.29	-1.42	-1.55	-1.48	-1.22	0.00	-0.98	0.0092	*
P21291	CSRP1	0.68	0.54	-0.38	-0.67	0.15	-0.15	-1.66	-1.03	-1.40	-1.28	-1.24	-1.05	-0.77	-1.04	-0.04	-1.13	0.00048	***
Q15019	Septin-2	1.09	-0.01	0.01	-0.85	0.19	-0.13	-0.05	-1.27	-0.53	-0.13	-1.39	-0.98	-1.49	-1.15	-1.29	-1.03	0.0043	**
P21399	ACOC	0.78	0.51	0.05	-0.16	-0.05	-0.94	-0.61	-1.43	-0.67	-1.40	-1.29	-1.49	-1.18	-0.79	0.52	-1.00	0.0077	*
Q9UNF0	PACN2	0.63	0.12	0.01	-0.08	-0.09	-0.01	-0.23	-1.02	-0.78	-0.60	-1.47	-1.12	-1.71	-0.39	-1.46	-1.20	0.0002	***
P55010	IF5	0.31	0.07	-0.27	-0.87	0.17	-0.07	-0.64	-0.38	-0.92	-0.78	-1.94	-1.22	-2.33	-0.92	-1.29	-1.65	0.0018	**
P15153	RAC2	0.82	1.09	-0.45	0.01	-0.11	-0.01	0.52	-2.15	-0.15	-2.27	-0.23	-1.33	-1.12	-1.37	0.27	-1.02	0.024	*
Q9Y6W5	WASF2	0.97	0.13	0.25	-1.86	-0.13	-0.37	0.03	-1.34	-0.87	-0.73	-2.68	-2.44	-2.63	-0.60	-0.73	-1.27	0.033	*
P62993	GRB2	0.64	1.51	0.07	-0.47	-0.07	-0.21	-0.92	-0.50	-1.04	-1.80	-1.13	-1.76	-1.21	-1.09	0.34	-1.03	0.0022	**
Q6YHK3	CD109	-1.55	-0.86	-0.39	0.39	1.88	2.46	-0.90	-1.17	-1.31	-1.25	0.57	-0.94	-0.01	-1.20	-1.54	-0.96	0.049	*
Q9Y490	TLN1	0.83	0.86	-0.05	-0.12	0.05	-0.27	-0.56	-2.59	-0.94	-1.58	-1.15	-0.95	-0.70	-2.05	0.01	-1.49	0.0012	**
P30047	GFRP	1.18	1.13	-0.01	-0.40	0.01	-0.51	-1.11	-0.12	-1.19	-1.89	-1.00	-2.09	-1.19	-0.88	0.70	-0.97	0.0096	*
P28676	GRAN	0.83	0.96	-0.43	-0.34	0.34	-0.42	-0.04	-1.52	-0.79	-1.24	-0.25	-1.26	-1.21	-1.40	1.20	-0.89	0.041	*
Q05655	KPCD	0.48	0.40	-0.54	0.07	-0.51	-0.07	-1.41	-0.79	-0.96	-1.37	-1.10	-0.79	-0.66	-1.07	-0.34	-1.15	0.00023	***
Q9NUQ9	FA49B	1.04	0.97	-0.02	-0.17	0.02	-0.29	-0.61	-2.10	-0.99	-1.67	-0.41	-1.04	-1.17	-1.38	0.30	-0.79	0.0022	**
Q9UI12	VATH	0.96	1.21	0.29	-0.29	-0.47	-0.38	-0.57	-3.13	-0.85	-1.13	-1.68	-1.05	-0.67	-1.21	0.11	-0.95	0.0064	*
Q9UJ68	MSRA	1.07	1.05	-0.26	-0.80	0.08	-0.08	-0.83	0.35	-0.99	-1.26	-1.05	-1.03	-1.12	-0.11	-0.02	-1.01	0.017	*
P49591	SYSC	0.00	0.37	-0.79	-0.93	0.32	0.00	-0.25	-1.00	-0.29	-0.22	-1.74	-1.07	-2.03	-1.03	-0.20	-1.00	0.043	*
Q8N1G4	LRC47	0.39	-0.50	-0.21	-0.41	0.21	0.32	0.00	-0.98	-0.36	0.01	-1.09	-1.15	-2.37	-0.21	-1.44	-1.01	0.025	*
O60749	SNX2	0.89	1.06	-0.05	-0.29	0.05	-0.28	-0.70	-1.82	-0.88	-1.25	-1.60	-1.32	-1.02	-0.96	0.19	-0.74	0.00088	**
P54577	SYYC	0.26	1.11	-0.36	-0.62	0.39	-0.26	-0.53	-1.10	-0.87	-0.14	-1.54	-1.11	-2.16	-0.68	-0.21	-1.10	0.006	*
P11413	G6PD	0.64	2.13	-0.20	-0.71	0.12	-0.12	-0.51	-1.61	-0.87	-1.36	-1.12	-1.17	-1.09	0.22	-0.13	-0.72	0.01	*
P52306	GDS1	0.81	1.84	-0.36	-0.49	0.10	-0.10	-0.95	-1.03	-0.59	-1.64	-1.47	-1.16	-1.01	-0.47	0.63	-0.69	0.0093	*
P51452	DUS3	0.95	0.96	-0.06	0.01	-0.01	-0.17	-1.12	-0.87	-0.65	-1.87	-1.33	-1.65	-1.09	-0.84	0.14	-0.46	0.00074	**
Q96C19	EFHD2	0.52	0.43	-0.53	-0.99	0.32	-0.32	-0.34	-0.82	-0.56	-1.09	-1.17	-1.64	-1.11	-1.13	0.43	-0.76	0.031	*
P50135	HNMT	0.37	0.63	-0.52	-0.92	0.60	-0.37	-1.21	-1.51	-0.99	-0.84	-0.75	-0.99	-1.11	-0.74	0.65	-0.92	0.021	*
Q9UN37	VPS4A	0.91	0.43	0.70	-1.28	-0.56	-0.43	-1.68	-1.57	-0.71	-0.88	-0.86	-0.83	-1.06	-1.01	-0.56	-1.87	0.0052	*
P46940	IQGA1	1.12	0.20	0.04	-0.44	-0.19	-0.04	0.16	-0.73	-0.67	-0.43	-0.99	-1.46	-1.90	-1.12	-0.92	-0.96	0.0031	**
P23528	COF1	0.61	0.71	-0.58	-1.22	0.19	-0.19	-0.66	-0.63	-0.62	-1.34	-1.78	-1.43	-1.43	-0.83	0.16	-1.05	0.017	*
Q16539	MK14	0.72	0.08	-0.08	0.29	-0.67	-0.53	-0.55	-1.27	-0.93	-1.45	-0.69	-0.86	-0.93	-0.83	-0.99	-0.99	0.0003	***

eTable 2, continued

Uniprot #	Uniprot ID	A1	A2	A3	A4	A5	A6	E1	E2	E3	E4	E5	E6	E7	E8	E9	E10	t-test	Significance
Q92696	PGTA	1.11	0.75	0.04	-0.61	-0.04	-0.49	-0.92	-1.39	-0.76	-0.90	-1.19	-0.97	-1.05	-0.21	0.33	-0.25	0.013	*
P47813	IF1AX	0.14	0.50	-0.56	-0.87	0.30	-0.14	-0.91	0.45	-1.12	-0.40	-1.78	-0.91	-1.80	-0.68	-0.90	-1.26	0.02	*
P13489	RINI	0.76	0.66	-0.09	-0.77	0.09	-0.16	-0.85	-1.47	-0.70	-1.03	-0.96	-1.04	-0.99	-0.48	0.25	-0.66	0.0043	*
P52209	6PGD	0.29	1.33	-0.57	-1.31	0.21	-0.21	-0.56	-2.15	-0.61	-0.96	-1.56	-1.55	-1.40	-0.32	0.18	-0.84	0.034	*
P05198	IF2A	0.76	-0.38	-0.09	-0.33	0.09	0.38	0.38	-0.54	-0.61	-0.94	-1.96	-1.12	-2.12	-0.72	-1.11	-0.87	0.0067	*
P05976	MYL1	1.15	0.27	-0.15	-0.85	-0.04	0.04	-0.08	0.03	-0.07	-0.41	-1.74	-1.65	-2.21	-1.22	-0.58	-1.26	0.023	*
Q9NSD9	SYFB	1.11	-0.15	0.15	-0.33	-0.21	0.46	0.51	-1.99	-0.11	0.20	-1.02	-1.62	-2.77	-0.92	-0.27	-0.87	0.036	*
Q01518	CAP1	0.72	1.02	-0.23	-0.95	0.23	-0.44	-0.26	-1.77	-0.63	-1.09	-0.96	-1.44	-1.02	-0.77	0.37	-0.83	0.018	*
P60660	MYL6	0.81	0.05	-0.11	-0.93	0.00	0.00	-0.12	-0.11	-0.12	-0.40	-1.34	-1.76	-2.08	-1.17	-0.61	-1.20	0.025	*
P08575	PTPRC	0.37	0.81	-0.23	-0.04	0.04	-0.35	-0.78	-0.99	-0.53	-1.16	-0.45	-1.46	-1.18	-1.10	-0.12	-0.42	0.00094	**
Q5JS37	NHLC3	0.25	0.71	-0.51	1.12	-1.37	-0.25	-1.79	-0.09	-3.12	-0.85	-0.31	-1.32	-0.91	-2.37	-0.24	-0.63	0.035	*
P12814	ACTN1	0.69	0.84	0.18	-0.18	-0.56	-0.37	-0.22	-1.58	-0.80	-0.94	-0.64	-1.28	-0.56	-1.03	0.03	-1.02	0.0043	**
Q15691	MARE1	0.75	1.19	-0.35	-0.59	0.17	-0.17	-0.49	-0.82	-0.42	-0.94	-1.48	-0.90	-1.23	-0.90	0.31	-0.73	0.0067	*
P23381	SYWC	0.19	1.03	-0.19	-0.26	0.22	-0.25	-0.52	-1.06	-0.29	-1.12	-0.86	-1.53	-1.38	-0.81	0.11	-0.30	0.0043	**
P52566	GDIR2	0.75	1.03	-0.34	-0.64	0.27	-0.27	0.10	-0.79	-0.55	-1.50	-0.42	-1.22	-0.88	-1.32	0.56	-0.93	0.027	*
Q02750	MP2K1	0.24	0.43	-0.67	0.03	-0.03	-0.71	-0.97	-1.62	-0.75	-0.90	-0.74	-0.69	-0.92	-1.18	0.22	-0.44	0.015	*
Q9UBQ0	VPS29	0.70	1.11	-0.12	-0.78	-0.41	0.12	-0.44	-2.80	-0.83	-0.81	-1.15	-1.15	-0.96	-0.43	0.06	-0.73	0.017	*
Q9Y6G9	DC1L1	1.05	0.52	-0.08	-0.67	0.00	0.00	-0.31	-0.73	-0.33	-0.32	-1.15	-1.94	-1.79	-1.92	-0.90	-0.47	0.0046	**
Q9UKY7	CDV3	0.59	1.14	-0.39	-0.98	0.39	-0.41	-0.90	-0.04	-0.71	-0.81	-1.35	-1.12	-1.76	-0.33	0.45	-0.82	0.043	*
P78417	GSTO1	0.90	1.20	-0.21	-1.03	0.21	-0.28	-0.72	-0.11	-0.60	-0.89	-1.07	-0.92	-1.05	-0.75	0.23	-0.88	0.02	*
Q9H993	ARMT1	0.81	0.67	-0.24	-1.28	0.04	-0.04	-1.11	-2.13	-0.59	-0.71	-1.18	-1.14	-0.92	-0.01	0.14	-0.54	0.037	*
Q9H223	EHD4	0.82	-0.23	0.34	0.01	-0.09	-0.01	-0.23	-0.86	-0.76	-0.42	-0.45	-1.22	-0.93	-0.94	-0.59	-1.81	0.00069	**
Q9NZT2	OGFR	0.71	0.65	-0.14	-0.61	0.14	-0.50	-0.96	-0.58	-0.39	-1.08	-1.92	-1.01	-1.12	-0.66	0.07	-0.60	0.0079	*
P84095	RHOG	1.92	0.94	-0.29	0.29	-1.17	-0.72	-0.01	-2.55	-0.23	-1.26	-0.27	-2.64	-0.36	-1.84	-0.05	-1.40	0.043	*
Q13576	IQGA2	1.37	1.58	-0.10	-0.14	0.10	-0.24	0.21	-0.77	-0.86	-0.75	-1.31	-1.23	-1.23	-0.64	-0.82	-0.52	0.0016	**
Q7LBR1	CHM1B	-0.02	-0.13	0.28	-0.39	0.02	0.32	-1.36	-0.15	-0.88	-0.72	-0.31	-1.11	-1.53	-0.99	0.03	-0.67	0.0039	**
Q9ULZ3	ASC	0.90	0.85	-0.33	-0.69	-0.06	0.06	-0.71	-0.32	-0.66	-1.85	-0.84	-1.72	-1.47	-0.94	0.20	-0.75	0.0073	*
P60709	ACTB	0.69	0.11	-0.44	-0.92	0.00	0.00	-0.10	-1.73	-0.20	-0.79	-1.18	-1.51	-1.33	-0.79	0.10	-0.74	0.031	*
P19971	TYPH	0.04	1.31	0.04	-0.04	-0.25	-0.50	-0.53	-1.81	-0.01	-0.89	-0.72	-1.66	-1.13	-0.80	0.04	-0.28	0.017	*
P12955	PEPD	0.38	0.81	-0.11	0.11	-0.13	-0.59	-0.74	-0.04	-0.85	-1.31	-0.68	-0.84	-0.78	-0.86	0.43	-0.72	0.012	*
P41240	CSK	0.16	0.45	-0.15	-0.03	-0.41	0.03	-0.99	-1.51	-0.72	-1.60	-2.78	-0.43	-0.23	-0.71	-0.40	-0.78	0.0077	*
P21281	VATB2	1.20	1.37	0.17	-0.61	-0.18	-0.17	-0.33	-2.24	-0.62	-0.82	-1.30	-0.77	-0.63	-0.93	0.38	-0.73	0.011	*
Q15046	SYK	1.02	-0.25	-0.03	-0.21	0.03	0.39	0.63	-0.20	-0.45	-0.47	-1.43	-1.91	-2.36	-0.62	-0.86	-1.20	0.018	*
P41226	UBA7	0.93	0.36	-0.61	1.16	-0.36	-0.57	-1.04	-1.82	-0.36	-0.64	-1.00	-0.90	-0.83	-0.57	-0.33	-0.46	0.0073	*
Q9UNH7	SNX6	0.62	0.90	-0.12	-0.18	0.02	-0.02	-0.32	-1.04	-0.51	-0.78	-0.86	-0.69	-0.81	-0.75	0.15	-0.47	0.001	**
Q13177	PAK2	0.37	0.93	-0.21	-0.34	0.17	-0.17	-0.31	-1.61	-0.38	-0.84	-1.04	-1.10	-0.92	-0.60	0.50	-0.43	0.013	*
Q9BUL8	PDC10	0.03	0.29	0.83	-0.03	-0.36	-0.42	-0.74	-1.43	-0.51	-0.80	-0.57	-0.73	-0.63	-1.06	0.17	-0.69	0.004	**
P04899	GNAI2	0.89	-0.33	0.41	0.00	-0.29	0.00	-0.53	0.06	-0.89	-0.69	-0.27	-0.89	-0.73	-0.88	-0.09	-0.94	0.0048	**
Q96QK1	VPS35	0.94	0.64	-0.03	-0.32	-0.42	0.03	-0.36	-1.80	-0.62	-0.74	-1.33	-1.13	-0.66	-0.66	-1.44	-0.60	0.00087	**
P62942	FKB1A	0.27	0.22	-0.52	-1.05	0.07	-0.07	-0.65	-0.23	-0.44	-0.73	-0.99	-1.21	-1.04	-0.44	-0.20	-0.75	0.037	*
Q9UQN3	CHM2B	0.02	0.44	-0.20	-0.63	0.31	-0.02	-1.08	0.13	-0.54	-0.54	-0.44	-0.83	-1.13	-0.81	0.37	-1.06	0.031	*
Q9UJU6	DBNL	0.45	0.99	-0.56	-0.50	0.42	-0.42	-0.72	-0.46	-0.97	-1.10	-1.09	-0.87	-0.63	-0.44	0.63	-0.22	0.042	*
Q9UJ70	NAGK	0.89	0.93	-0.03	-0.70	0.03	-0.27	-0.77	-1.62	-0.46	-0.66	-1.32	-0.80	-0.52	-0.27	-0.68	-0.61	0.0035	**
P46926	GNPI1	0.88	0.16	0.21	-0.27	-0.38	-0.16	-0.48	-1.85	-0.70	-0.62	-0.80	-0.54	-0.43	-0.87	-0.95	-0.27	0.003	*
Q86TI2	DPP9	1.09	1.55	-0.21	-0.50	-0.02	0.02	-0.63	-0.91	-0.96	-0.58	-2.49	-1.40	-0.64	0.10	-0.12	-0.36	0.013	*
Q14232	EI2BA	0.76	1.31	-0.31	-0.06	0.06	-0.49	-0.07	-2.64	-0.58	-0.77	-1.73	-0.48	-0.82	-0.68	0.57	-0.19	0.043	*
P50897	PPT1	0.39	3.22	0.31	-0.49	-0.67	-0.31	-0.41	0.10	-1.42	-0.16	-0.72	-1.50	-1.14	-0.24	-0.53	-1.04	0.043	*
O75436	VP26A	0.92	0.95	0.00	-0.45	-0.14	0.00	-0.31	0.12	-0.64	-0.60	-1.08	-1.08	-0.84	-0.51	-0.74	-0.47	0.0032	**
P50570	DYN2	1.14	0.06	-0.19	-0.01	0.01	-0.39	0.03	-2.56	-0.01	-0.17	-0.85	-0.36	-0.54	-1.29	-0.73	-0.71	0.037	*
P68032	ACTC	0.79	0.06	0.07	-0.35	-0.27	-0.06	-0.07	-1.20	-0.23	-0.79	-0.96	-1.07	-0.71	-0.53	0.24	-0.48	0.016	*
P53004	BIEA	0.61	0.39	-0.10	-0.71	0.10	-0.19	-1.04	-0.08	-0.60	-0.77	-1.12	-0.64	-0.52	-0.57	0.33	-0.84	0.02	*
P15104	GLNA	0.25	0.05	0.11	-0.61	-0.64	-0.05	-0.26	-0.38	-0.99	-0.64	-0.31	-1.17	-0.92	-0.41	-0.92	-0.60	0.012	*
Q14344	GNA13	0.72	-0.42	0.20	-0.04	-0.13	0.04	-0.25	-0.05	-1.05	-0.51	0.23	-0.91	-0.72	-0.82	0.16	-0.72	0.033	*
P10644	KAP0	0.05	1.38	-0.41	0.21	-0.15	-0.05	-0.63	-0.44	-0.60	-0.79	-0.64	-0.80	-0.46	-0.77	0.32	-0.49	0.01	*
P38606	VATA	1.11	0.99	0.14	-0.29	-0.25	-0.14	-0.20	-1.89	-0.53	-0.68	-1.28	-0.62	-0.60	-0.82	0.09	-0.60	0.0058	*
Q9BVJ7	DUS23	0.60	0.61	-0.59	-0.14	-0.23	0.14	-0.54	-1.03	-0.66	-1.64	-1.42	-0.85	0.03	-0.37	-0.09	-0.41	0.013	*
O75083	WDR1	0.45	0.70	-0.42	-1.01	0.10	-0.10	-0.51	-1.18	-0.16	-0.69	-1.18	-0.96	-0.85	-0.37	0.04	-0.48	0.038	*

eTable 2, continued

Uniprot #	Uniprot ID	A1	A2	A3	A4	A5	A6	E1	E2	E3	E4	E5	E6	E7	E8	E9	E10	t-test	Significance
Q32MZ4	LRRF1	0.68	0.73	-0.55	-0.05	-0.16	0.05	0.19	0.32	-0.77	-0.43	-0.84	-0.42	-1.59	-0.99	-0.37	-1.04	0.025	*
O00429	DNM1L	0.58	1.34	-0.34	-0.69	0.16	-0.16	-0.53	-2.47	-0.48	-0.64	-1.28	-0.65	-0.95	-0.39	0.61	-0.35	0.047	*
Q7L9L4	MOB1B	0.13	0.46	-0.10	-0.26	-0.36	0.10	-0.56	-0.65	-0.62	-1.14	-0.45	-0.59	-0.77	-0.42	-0.09	-0.04	0.0054	*
A0MZ66	SHOT1	1.16	1.53	-0.85	-0.54	0.54	-0.79	-0.47	-1.21	-0.34	-0.46	-1.76	-2.17	-1.48	-0.67	0.26	-0.29	0.038	*
Q92882	OSTF1	0.71	0.72	0.12	-0.37	-0.12	-0.15	-0.15	-0.72	-0.59	-1.13	-0.55	-1.01	-0.82	-0.52	0.29	-0.40	0.0067	*
Q9BR76	COR1B	0.46	0.67	-0.20	-0.82	0.15	-0.15	-0.39	-1.13	-0.47	-0.61	-1.38	-1.15	-0.75	-0.23	-0.01	-0.53	0.014	*
P61981	1433G	0.66	0.82	-0.25	-0.48	0.01	-0.01	-0.50	-0.82	-0.50	-0.63	-0.76	-0.75	-0.80	-0.08	0.16	-0.09	0.014	*
Q9H0E2	TOLIP	0.84	0.74	0.02	-0.15	-0.15	-0.02	-0.43	-0.57	-0.56	-0.43	-0.48	-0.63	-0.55	-0.75	0.12	-0.56	0.0011	**
O75351	VPS4B	0.31	0.21	-0.15	-0.39	0.14	-0.14	-0.65	-0.38	-0.22	-0.68	-0.58	-0.50	-0.86	-0.63	0.16	-0.49	0.0048	**
Q4G0F5	VP26B	1.26	0.41	-0.06	-0.21	-0.34	0.06	0.19	0.08	-0.25	-0.18	-1.82	-0.68	-1.00	-0.55	-2.21	-0.53	0.033	*
P43034	LIS1	0.51	0.76	-0.24	-0.99	0.24	-0.26	-0.79	-0.74	-0.43	-0.31	-1.13	-0.47	-0.59	-0.60	-0.16	-0.36	0.026	*
P55957	BID	0.92	0.64	-0.42	-0.01	-0.22	0.01	-0.76	-1.43	-0.27	-0.64	-0.47	-0.84	-0.06	-0.58	0.32	-0.40	0.02	*

eTable 3

Ingenuity Canonical Pathways	-log(p-value)	Ratio	z-score
Actin Cytoskeleton Signaling	22.8	0.155	-4.004
Remodeling of Epithelial Adherens Junctions	20.8	0.324	-2.828
Integrin Signaling	15.9	0.136	-3.024
Signaling by Rho Family GTPases	14.9	0.116	-4.6
RHOGDI Signaling	14.9	0.13	3.273
Leukocyte Extravasation Signaling	14.2	0.135	-2.858
RHOA Signaling	13.6	0.169	-4.146
Regulation of Actin-based Motility by Rho	13.1	0.172	-3.153
Axonal Guidance Signaling	12.7	0.0771	NaN
RAC Signaling	12.6	0.152	-3.3
Clathrin-mediated Endocytosis Signaling	11.5	0.119	NaN
Germ Cell-Sertoli Cell Junction Signaling	10.8	0.123	NaN
Fcγ Receptor-mediated Phagocytosis in Macrophages and Monocytes	10.5	0.17	-3
EIF2 Signaling	10.2	0.103	1.387
Phagosome Maturation	8.76	0.113	NaN
Actin Nucleation by ARP-WASP Complex	8.56	0.151	-3.162
Sertoli Cell-Sertoli Cell Junction Signaling	8.48	0.0971	NaN
VEGF Signaling	8.2	0.141	-2.121
Epithelial Adherens Junction Signaling	8.01	0.108	-1.213
Ephrin Receptor Signaling	7.9	0.0945	-3.638
IL-8 Signaling	7.55	0.09	-1.886
Production of Nitric Oxide and Reactive Oxygen Species in Macrophages	7.49	0.0942	0.258
Semaphorin Neuronal Repulsive Signaling Pathway	7.44	0.106	0
Synaptogenesis Signaling Pathway	7.37	0.0737	-2.4
FAK Signaling	7.25	0.12	NaN
UDP-N-acetyl-D-galactosamine Biosynthesis II	7.14	0.462	-0.816
14-3-3-mediated Signaling	6.8	0.11	-1.89
Agranulocyte Adhesion and Diapedesis	6.74	0.0841	NaN
fMLP Signaling in Neutrophils	6.63	0.107	-3.464
Gap Junction Signaling	6.52	0.0859	NaN
Role of Tissue Factor in Cancer	6.44	0.112	NaN
Virus Entry via Endocytic Pathways	6.13	0.115	NaN
Paxillin Signaling	5.95	0.111	-1.897
Phagosome Formation	5.81	0.0479	-4.004
PFKFB4 Signaling Pathway	5.63	0.174	-0.707
LXR/RXR Activation	5.35	0.0976	2.111
Dilated Cardiomyopathy Signaling Pathway	5.3	0.089	0.905
ILK Signaling	5.16	0.0758	-1.941
G Beta Gamma Signaling	5.14	0.093	-2.309
tRNA Charging	5.09	0.179	-2.646
Regulation of eIF4 and p70S6K Signaling	5.01	0.0782	NaN
Caveolar-mediated Endocytosis Signaling	4.88	0.12	NaN
PAK Signaling	4.76	0.0932	-2.121

eTable 3, continued

Ingenuity Canonical Pathways	-log(p-value)	Ratio	z-score
Renin-Angiotensin Signaling	4.7	0.0917	-2.111
Coronavirus Replication Pathway	4.66	0.156	2.646
FXR/RXR Activation	4.5	0.0873	NaN
Reelin Signaling in Neurons	4.5	0.0873	-2.53
Cardiac Hypertrophy Signaling	4.38	0.062	-1.941
Acute Phase Response Signaling	4.21	0.0703	0.333
IL-12 Signaling and Production in Macrophages	4.19	0.0809	NaN
ERK/MAPK Signaling	4.15	0.0654	-2.111
CXCR4 Signaling	4.02	0.0719	-2.714
Estrogen Receptor Signaling	3.93	0.0495	-1.414
Mechanisms of Viral Exit from Host Cells	3.91	0.146	NaN
Natural Killer Cell Signaling	3.89	0.0653	-1.387
Cellular Effects of Sildenafil (Viagra)	3.84	0.0738	NaN
Tight Junction Signaling	3.76	0.0674	NaN
Semaphorin Signaling in Neurons	3.75	0.113	NaN
HIF1α Signaling	3.7	0.0625	-1.732
Atherosclerosis Signaling	3.68	0.0769	NaN
Thrombin Signaling	3.66	0.0619	-3
Trehalose Degradation II (Trehalase)	3.64	0.429	NaN
Granulocyte Adhesion and Diapedesis	3.52	0.0635	NaN
Regulation of Cellular Mechanics by Calpain Protease	3.51	0.0899	0
Agrin Interactions at Neuromuscular Junction	3.42	0.1	-1.134
ERBB Signaling	3.35	0.0851	-2.121
Ephrin B Signaling	3.34	0.0972	-0.816
Glioma Invasiveness Signaling	3.31	0.0959	-1.633
Coagulation System	3.29	0.143	1.342
Colorectal Cancer Metastasis Signaling	3.13	0.052	-0.302
Pentose Phosphate Pathway	3.12	0.3	NaN
GP6 Signaling Pathway	3.11	0.0709	-0.707
Protein Kinase A Signaling	3.08	0.0448	0.277
Apoptosis Signaling	3.05	0.0769	1.414
Calcium Signaling	3	0.0556	NaN
α-Adrenergic Signaling	3	0.0755	-2.236
p70S6K Signaling	2.99	0.0682	-2.449
GDP-glucose Biosynthesis	2.99	0.273	NaN
GNRH Signaling	2.98	0.0585	-1.897
CCR3 Signaling in Eosinophils	2.92	0.0667	-1.633
Glycolysis I	2.91	0.16	0
Gluconeogenesis I	2.91	0.16	0
PPARα/RXRα Activation	2.89	0.057	1.897
Hepatic Fibrosis Signaling Pathway	2.88	0.043	-2.84
Apelin Adipocyte Signaling Pathway	2.88	0.0814	-0.816
Glucose and Glucose-1-phosphate Degradation	2.87	0.25	NaN

eTable 3, continued

Ingenuity Canonical Pathways	-log(p-value)	Ratio	z-score
Role of MAPK Signaling in Promoting the Pathogenesis of Influenza	2.84	0.0714	-2.828
Iron homeostasis signaling pathway	2.83	0.0647	NaN
Amyotrophic Lateral Sclerosis Signaling	2.77	0.0696	0
Fc Epsilon RI Signaling	2.7	0.0678	-2.828
Airway Pathology in Chronic Obstructive Pulmonary Disease	2.7	0.0678	NaN
Cholecystokinin/Gastrin-mediated Signaling	2.68	0.0672	-2.646
Pentose Phosphate Pathway (Oxidative Branch)	2.67	0.5	NaN
N-acetylglucosamine Degradation II	2.67	0.5	NaN
Role of IL-17A in Psoriasis	2.66	0.214	NaN
Colanic Acid Building Blocks Biosynthesis	2.66	0.214	NaN
Melanocyte Development and Pigmentation Signaling	2.66	0.0745	-1.134
Corticotropin Releasing Hormone Signaling	2.63	0.0604	-1.414
Molecular Mechanisms of Cancer	2.6	0.0404	NaN
Melatonin Signaling	2.59	0.0833	-1.633
Amyloid Processing	2.54	0.098	NaN
Apelin Cardiomyocyte Signaling Pathway	2.53	0.0707	-2.646
Extrinsic Prothrombin Activation Pathway	2.49	0.188	NaN
Macropinocytosis Signaling	2.47	0.0789	-1
Airway Inflammation in Asthma	2.46	0.121	NaN
CDC42 Signaling	2.41	0.0365	-3.771
IGF-1 Signaling	2.41	0.0673	-1.342
HGF Signaling	2.4	0.0606	-1.633
IL-3 Signaling	2.39	0.0759	-0.816
Chemokine Signaling	2.36	0.075	-1.633
Role of PKR in Interferon Induction and Antiviral Response	2.32	0.0588	-1.633
Urea Cycle	2.28	0.333	NaN
UDP-N-acetyl-D-glucosamine Biosynthesis II	2.28	0.333	NaN
Rapoport-Luebering Glycolytic Shunt	2.28	0.333	NaN
VEGF Family Ligand-Receptor Interactions	2.26	0.0714	-2.236
Gαq Signaling	2.25	0.0529	-1.633
Coronavirus Pathogenesis Pathway	2.22	0.0493	-3.162
Prolactin Signaling	2.21	0.0698	-2.236
Inhibition of Matrix Metalloproteases	2.19	0.103	-1
BMP signaling pathway	2.18	0.069	-1.633
Thrombopoietin Signaling	2.15	0.0794	-2.236
AMPK Signaling	2.14	0.0455	0.378
Neuregulin Signaling	2.13	0.0598	-2.236
Sphingosine-1-phosphate Signaling	2.11	0.0593	-1.342
NGF Signaling	2.11	0.0593	-2.646
Intrinsic Prothrombin Activation Pathway	2.08	0.0952	2
IL-1 Signaling	2.03	0.0638	0
Endocannabinoid Developing Neuron Pathway	2.02	0.0569	-2.236
ERBB4 Signaling	2.01	0.0735	-2.236

eTable 3, continued

Ingenuity Canonical Pathways	-log(p-value)	Ratio	z-score
Role of NFAT in Cardiac Hypertrophy	1.99	0.0455	-1.897
Tumoricidal Function of Hepatic Natural Killer Cells	1.98	0.125	NaN
Salvage Pathways of Pyrimidine Ribonucleotides	1.94	0.0612	-0.816
Endothelin-1 Signaling	1.94	0.0471	-2.333
Salvage Pathways of Pyrimidine Deoxyribonucleotides	1.92	0.222	NaN
P2Y Purigenic Receptor Signaling Pathway	1.91	0.0543	-1.134
RAR Activation	1.87	0.0459	NaN
Leptin Signaling in Obesity	1.86	0.0676	NaN
Gα12/13 Signaling	1.84	0.0526	-2.646
Insulin Secretion Signaling Pathway	1.83	0.041	-1.897
Adrenomedullin signaling pathway	1.83	0.0452	-2.333
Osteoarthritis Pathway	1.82	0.0427	1.342
MYC Mediated Apoptosis Signaling	1.82	0.08	-1
UVC-Induced MAPK Signaling	1.79	0.0784	-2
NRF2-mediated Oxidative Stress Response	1.78	0.0422	-2
Maturity Onset Diabetes of Young (MODY) Signaling	1.77	0.0641	NaN
Gαi Signaling	1.76	0.0507	-1.342
MSP-RON Signaling In Cancer Cells Pathway	1.76	0.0507	-1.89
Glucocorticoid Receptor Signaling	1.76	0.0327	NaN
Opioid Signaling Pathway	1.74	0.0399	-1.667
Renal Cell Carcinoma Signaling	1.73	0.0625	-1.342
Melatonin Degradation III	1.72	1	NaN
Glutamine Biosynthesis I	1.72	1	NaN
UDP-N-acetyl-D-galactosamine Biosynthesis I	1.72	1	NaN
PI3K Signaling in B Lymphocytes	1.69	0.049	-2.236
Endocannabinoid Cancer Inhibition Pathway	1.69	0.049	-1.134
mTOR Signaling	1.67	0.0425	-1.342
Tumor Microenvironment Pathway	1.65	0.0447	0
FcγRIIB Signaling in B Lymphocytes	1.63	0.0588	NaN
LPS-stimulated MAPK Signaling	1.63	0.0588	-1.342
GPCR-Mediated Nutrient Sensing in Enteroendocrine Cells	1.61	0.0517	-0.816
PDGF Signaling	1.61	0.0581	-1.342
Xenobiotic Metabolism AHR Signaling Pathway	1.59	0.0575	0.447
Neuroprotective Role of THOP1 in Alzheimer's Disease	1.58	0.0508	0.447
Inhibition of Angiogenesis by TSP1	1.57	0.0882	NaN
Nitric Oxide Signaling in the Cardiovascular System	1.57	0.0504	-0.447
Endometrial Cancer Signaling	1.55	0.0667	-2
Leukotriene Biosynthesis	1.54	0.143	NaN
Crosstalk between Dendritic Cells and Natural Killer Cells	1.51	0.0549	NaN
Necroptosis Signaling Pathway	1.5	0.0446	-1.134
D-myo-inositol-5-phosphate Metabolism	1.49	0.0417	-0.707
Superpathway of Citrulline Metabolism	1.49	0.133	NaN
Ovarian Cancer Signaling	1.48	0.0443	-0.816

eTable 3, continued

Ingenuity Canonical Pathways	-log(p-value)	Ratio	z-score
eNOS Signaling	1.47	0.044	-1.134
Granzyme B Signaling	1.43	0.125	NaN
Adenosine Nucleotides Degradation II	1.43	0.125	NaN
Death Receptor Signaling	1.43	0.0521	-1.342
Pyridoxal 5'-phosphate Salvage Pathway	1.42	0.0606	-1
Palmitate Biosynthesis I (Animals)	1.42	0.5	NaN
L-cysteine Degradation III	1.42	0.5	NaN
Sulfate Activation for Sulfonation	1.42	0.5	NaN
Fatty Acid Biosynthesis Initiation II	1.42	0.5	NaN
GDP-L-fucose Biosynthesis I (from GDP-D-mannose)	1.42	0.5	NaN
Synaptic Long Term Potentiation	1.42	0.0465	-1.633
Histamine Degradation	1.39	0.118	NaN
Glioblastoma Multiforme Signaling	1.33	0.0409	-2.449
Oncostatin M Signaling	1.31	0.0698	NaN
B Cell Development	1.31	0.0698	NaN
ERK5 Signaling	1.31	0.0556	-1
Netrin Signaling	1.31	0.0556	-1
Granzyme A Signaling	1.3	0.105	NaN
Purine Nucleotides Degradation II (Aerobic)	1.3	0.105	NaN
GPCR-Mediated Integration of Enteroendocrine Signaling Exemplified by an L Cell	1.29	0.0548	1
G Protein Signaling Mediated by Tubby	1.28	0.0682	NaN
Insulin Receptor Signaling	1.28	0.0429	-1.633
D-myo-inositol (1,4,5,6)-Tetrakisphosphate Biosynthesis	1.27	0.0398	-0.378
D-myo-inositol (3,4,5,6)-tetrakisphosphate Biosynthesis	1.27	0.0398	-0.378
Inflammasome pathway	1.26	0.1	NaN
Ascorbate Recycling (Cytosolic)	1.25	0.333	NaN
Glycerol-3-phosphate Shuttle	1.25	0.333	NaN
Glutamate Degradation II	1.25	0.333	NaN
N-acetylglucosamine Degradation I	1.25	0.333	NaN
Aspartate Biosynthesis	1.25	0.333	NaN
Xenobiotic Metabolism General Signaling Pathway	1.24	0.042	-1.633
GDNF Family Ligand-Receptor Interactions	1.24	0.0526	-2
TREM1 Signaling	1.22	0.0519	-1
Angiopoietin Signaling	1.22	0.0519	-1
nNOS Signaling in Neurons	1.21	0.0638	NaN
Ephrin A Signaling	1.21	0.0638	NaN
IL-7 Signaling Pathway	1.2	0.0513	0
Endocannabinoid Neuronal Synapse Pathway	1.19	0.0408	-1.633
CDK5 Signaling	1.19	0.0446	-0.447
Breast Cancer Regulation by Stathmin1	1.19	0.0287	-2.668
FLT3 Signaling in Hematopoietic Progenitor Cells	1.17	0.05	-2
PTEN Signaling	1.16	0.04	2
Role of MAPK Signaling in the Pathogenesis of Influenza	1.15	0.0494	NaN

eTable 3, continued

Ingenuity Canonical Pathways	-log(p-value)	Ratio	z-score
3-phosphoinositide Degradation	1.15	0.0372	-0.378
Cell Cycle: G2/M DNA Damage Checkpoint Regulation	1.15	0.06	NaN
Differential Regulation of Cytokine Production in Intestinal Epithelial Cells by IL-17	1.15	0.087	NaN
Vitamin-C Transport	1.15	0.087	NaN
Bladder Cancer Signaling	1.14	0.0431	NaN
JAK/STAT Signaling	1.14	0.0488	-1
CD28 Signaling in T Helper Cells	1.13	0.029	-2.138
Relaxin Signaling	1.13	0.0392	0
Heme Degradation	1.13	0.25	NaN
Arginine Degradation I (Arginase Pathway)	1.13	0.25	NaN
Oxidized GTP and dGTP Detoxification	1.13	0.25	NaN
L-cysteine Degradation I	1.13	0.25	NaN
MSP-RON Signaling In Macrophages Pathway	1.13	0.0427	-0.447
Xenobiotic Metabolism PXR Signaling Pathway	1.12	0.0366	0.378
TNFR1 Signaling	1.11	0.0577	NaN
UVB-Induced MAPK Signaling	1.11	0.0577	NaN
FGF Signaling	1.11	0.0476	-1
Superpathway of Inositol Phosphate Compounds	1.1	0.0345	-0.707
Synaptic Long Term Depression	1.09	0.0361	-2.646
Hepatic Fibrosis / Hepatic Stellate Cell Activation	1.09	0.0361	NaN
HIPPO signaling	1.09	0.0471	NaN
Gαs Signaling	1.08	0.0413	NaN
Th1 Pathway	1.07	0.041	NaN
IL-17A Signaling in Gastric Cells	1.06	0.0769	NaN
Primary Immunodeficiency Signaling	1.05	0.0545	NaN
EGF Signaling	1.05	0.0545	NaN
PI3K/AKT Signaling	1.05	0.0352	-1.342
Glioma Signaling	1.04	0.0403	-2.236
Arsenate Detoxification I (Glutaredoxin)	1.04	0.2	NaN
Creatine-phosphate Biosynthesis	1.04	0.2	NaN
Serine Biosynthesis	1.04	0.2	NaN
CMP-N-acetylneuraminate Biosynthesis I (Eukaryotes)	1.04	0.2	NaN
Myo-inositol Biosynthesis	1.04	0.2	NaN
Citrulline-Nitric Oxide Cycle	1.04	0.2	NaN
Galactose Degradation I (Leloir Pathway)	1.04	0.2	NaN
Huntington's Disease Signaling	1.03	0.032	0.816
NAD Salvage Pathway II	1.03	0.0741	NaN
Unfolded protein response	1.02	0.0444	NaN
3-phosphoinositide Biosynthesis	1.02	0.0347	-0.378
Ferroptosis Signaling Pathway	1.02	0.0397	-1.342
CNTF Signaling	1.02	0.0526	NaN
Role of IL-17A in Arthritis	1.02	0.0526	NaN
MSP-RON Signaling Pathway	1	0.0517	NaN

eTable 3, continued

Ingenuity Canonical Pathways	-log(p-value)	Ratio	z-score
IL-4 Signaling	0.987	0.043	NaN
Sonic Hedgehog Signaling	0.975	0.069	NaN
Androgen Signaling	0.971	0.0355	-1
SPINK1 Pancreatic Cancer Pathway	0.967	0.05	NaN
Arginine Biosynthesis IV	0.959	0.167	NaN
Arginine Degradation VI (Arginase 2 Pathway)	0.959	0.167	NaN
Pentose Phosphate Pathway (Non-oxidative Branch)	0.959	0.167	NaN
Glycerol Degradation I	0.959	0.167	NaN
Selenocysteine Biosynthesis II (Archaea and Eukaryotes)	0.959	0.167	NaN
Tryptophan Degradation to 2-amino-3-carboxymuconate Semialdehyde	0.959	0.167	NaN
GDP-mannose Biosynthesis	0.959	0.167	NaN
IL-2 Signaling	0.951	0.0492	NaN
TGF-β Signaling	0.947	0.0417	-2
Sperm Motility	0.932	0.0315	-1
p53 Signaling	0.924	0.0408	NaN
White Adipose Tissue Browning Pathway	0.917	0.0368	-0.447
Glutathione-mediated Detoxification	0.903	0.0625	NaN
Ethanol Degradation II	0.903	0.0625	NaN
Erythropoietin Signaling Pathway	0.9	0.0339	-1.633
Superpathway of Serine and Glycine Biosynthesis I	0.896	0.143	NaN
Adenine and Adenosine Salvage III	0.896	0.143	NaN
Ceramide Degradation	0.896	0.143	NaN
Aspartate Degradation II	0.896	0.143	NaN
Neuropathic Pain Signaling In Dorsal Horn Neurons	0.889	0.0396	-1
ERB2-ERBB3 Signaling	0.889	0.0462	NaN
Apelin Endothelial Signaling Pathway	0.889	0.036	-2.236
Dopamine-DARPP32 Feedback in cAMP Signaling	0.87	0.0331	-0.447
IL-17A Signaling in Airway Cells	0.863	0.0448	NaN
4-1BB Signaling in T Lymphocytes	0.86	0.0588	NaN
Mouse Embryonic Stem Cell Pluripotency	0.857	0.0385	-2
Purine Ribonucleosides Degradation to Ribose-1-phosphate	0.845	0.125	NaN
Noradrenaline and Adrenaline Degradation	0.842	0.0571	NaN
Retinoate Biosynthesis I	0.821	0.0556	NaN
Interferon Signaling	0.821	0.0556	NaN
GM-CSF Signaling	0.821	0.0429	NaN
Neuroinflammation Signaling Pathway	0.815	0.0286	-1.89
Xenobiotic Metabolism CAR Signaling Pathway	0.815	0.0319	0.816
Cardiac Hypertrophy Signaling (Enhanced)	0.812	0.026	-2.714
Growth Hormone Signaling	0.81	0.0423	NaN
Complement System	0.801	0.0541	NaN
Sphingosine and Sphingosine-1-phosphate Metabolism	0.796	0.111	NaN
Citrulline Biosynthesis	0.796	0.111	NaN
Antioxidant Action of Vitamin C	0.785	0.036	NaN

eTable 3, continued

Ingenuity Canonical Pathways	-log(p-value)	Ratio	z-score
Docosahexaenoic Acid (DHA) Signaling	0.783	0.0526	NaN
IL-17A Signaling in Fibroblasts	0.783	0.0526	NaN
Neurotrophin/TRK Signaling	0.747	0.0395	NaN
Role of MAPK Signaling in Inhibiting the Pathogenesis of Influenza	0.747	0.0395	NaN
Antiproliferative Role of Somatostatin Receptor 2	0.738	0.039	NaN
Aryl Hydrocarbon Receptor Signaling	0.721	0.0314	NaN
Xenobiotic Metabolism Signaling	0.721	0.0278	NaN
Purine Nucleotides De Novo Biosynthesis II	0.717	0.0909	NaN
Inhibition of ARE-Mediated mRNA Degradation Pathway	0.706	0.0311	-0.447
HOTAIR Regulatory Pathway	0.69	0.0307	1.342
Aldosterone Signaling in Epithelial Cells	0.684	0.0305	NaN
NAD biosynthesis II (from tryptophan)	0.684	0.0833	NaN
Glycogen Degradation II	0.684	0.0833	NaN
LPS/IL-1 Mediated Inhibition of RXR Function	0.682	0.0279	NaN
Senescence Pathway	0.674	0.0269	0.378
Role of IL-17F in Allergic Inflammatory Airway Diseases	0.672	0.0444	NaN
HMGB1 Signaling	0.664	0.0299	-2
TR/RXR Activation	0.662	0.0357	NaN
PEDF Signaling	0.662	0.0357	NaN
Apelin Pancreas Signaling Pathway	0.658	0.0435	NaN
Acyl-CoA Hydrolysis	0.654	0.0769	NaN
NAD Phosphorylation and Dephosphorylation	0.654	0.0769	NaN
Guanosine Nucleotides Degradation III	0.654	0.0769	NaN
Pancreatic Adenocarcinoma Signaling	0.652	0.0317	0
Phospholipase C Signaling	0.65	0.0237	-2.714
Role of Hypercytokinemia/hyperchemokinemia in the Pathogenesis of Influenza	0.642	0.0349	NaN
IL-6 Signaling	0.636	0.0312	-2
Apelin Muscle Signaling Pathway	0.631	0.0417	NaN
Th1 and Th2 Activation Pathway	0.629	0.0291	NaN
Glycogen Degradation III	0.625	0.0714	NaN
Urate Biosynthesis/Inosine 5'-phosphate Degradation	0.625	0.0714	NaN
Phenylalanine Degradation IV (Mammalian, via Side Chain)	0.625	0.0714	NaN
Cardiac β-adrenergic Signaling	0.616	0.0287	NaN
Melanoma Signaling	0.604	0.04	NaN
Choline Biosynthesis III	0.599	0.0667	NaN
Acute Myeloid Leukemia Signaling	0.597	0.033	NaN
STAT3 Pathway	0.585	0.0296	-1
Chondroitin Sulfate Degradation (Metazoa)	0.575	0.0625	NaN
Parkinson's Signaling	0.575	0.0625	NaN
Th2 Pathway	0.572	0.0292	NaN
Non-Small Cell Lung Cancer Signaling	0.57	0.0319	NaN
Stearate Biosynthesis I (Animals)	0.569	0.0377	NaN
Phototransduction Pathway	0.558	0.037	NaN

eTable 3, continued

Ingenuity Canonical Pathways	-log(p-value)	Ratio	z-score
RAN Signaling	0.553	0.0588	NaN
Dermatan Sulfate Degradation (Metazoa)	0.553	0.0588	NaN
ATM Signaling	0.547	0.0309	NaN
IL-17 Signaling	0.539	0.0267	0.447
UVA-Induced MAPK Signaling	0.538	0.0306	NaN
CSDE1 Signaling Pathway	0.536	0.0357	NaN
Differential Regulation of Cytokine Production in Macrophages and T Helper Cells b	0.532	0.0556	NaN
CD27 Signaling in Lymphocytes	0.526	0.0351	NaN
Cancer Drug Resistance By Drug Efflux	0.516	0.0345	NaN
Regulation Of The Epithelial Mesenchymal Transition By Growth Factors Pathway	0.511	0.026	-1.342
Sumoylation Pathway	0.5	0.0291	NaN
TEC Kinase Signaling	0.496	0.0225	-2.121
Methylglyoxal Degradation III	0.493	0.05	NaN
Fatty Acid α-oxidation	0.493	0.05	NaN
Putrescine Degradation III	0.476	0.0476	NaN
Endoplasmic Reticulum Stress Pathway	0.476	0.0476	NaN
Chronic Myeloid Leukemia Signaling	0.472	0.028	NaN
Telomerase Signaling	0.472	0.028	NaN
PPAR Signaling	0.472	0.028	NaN
Systemic Lupus Erythematosus In T Cell Signaling Pathway	0.466	0.0219	-2.138
Pyrimidine Deoxyribonucleotides De Novo Biosynthesis I	0.46	0.0455	NaN
Role of Pattern Recognition Receptors in Recognition of Bacteria and Viruses	0.456	0.0256	-1
PXR/RXR Activation	0.45	0.0308	NaN
Induction of Apoptosis by HIV1	0.45	0.0308	NaN
Ethanol Degradation IV	0.445	0.0435	NaN
Role of PI3K/AKT Signaling in the Pathogenesis of Influenza	0.442	0.0303	NaN
Phospholipases	0.442	0.0303	NaN
Prostate Cancer Signaling	0.44	0.0268	NaN
CD40 Signaling	0.434	0.0299	NaN
Serotonin Degradation	0.434	0.0299	NaN
Eicosanoid Signaling	0.434	0.0299	NaN
IL-22 Signaling	0.431	0.0417	NaN
TCA Cycle II (Eukaryotic)	0.431	0.0417	NaN
Tryptophan Degradation III (Eukaryotic)	0.431	0.0417	NaN
Role of JAK1 and JAK3 in γc Cytokine Signaling	0.418	0.029	NaN
SPINK1 General Cancer Pathway	0.418	0.029	NaN
Role of JAK family kinases in IL-6-type Cytokine Signaling	0.416	0.04	NaN
Glutathione Redox Reactions I	0.416	0.04	NaN
Tryptophan Degradation X (Mammalian, via Tryptamine)	0.416	0.04	NaN
Role of JAK1, JAK2 and TYK2 in Interferon Signaling	0.403	0.0385	NaN
D-myo-inositol (1,4,5)-Trisphosphate Biosynthesis	0.403	0.0385	NaN
IL-10 Signaling	0.396	0.0278	NaN
Role of NANOG in Mammalian Embryonic Stem Cell Pluripotency	0.393	0.025	NaN

eTable 3, continued

Ingenuity Canonical Pathways	-log(p-value)	Ratio	z-score
Dopamine Degradation	0.368	0.0345	NaN
Role of p14/p19ARF in Tumor Suppression	0.368	0.0345	NaN
B Cell Receptor Signaling	0.367	0.0207	-1.897
G-Protein Coupled Receptor Signaling	0.362	0.0217	NaN
Dopamine Receptor Signaling	0.361	0.026	NaN
HER-2 Signaling in Breast Cancer	0.357	0.022	-2.236
VDR/RXR Activation	0.355	0.0256	NaN
NF-κB Activation by Viruses	0.355	0.0256	NaN
Toll-like Receptor Signaling	0.355	0.0256	NaN
Thyroid Cancer Signaling	0.348	0.0253	NaN
GABA Receptor Signaling	0.337	0.0229	NaN
BAG2 Signaling Pathway	0.319	0.0238	NaN
Role of JAK2 in Hormone-like Cytokine Signaling	0.317	0.0294	NaN
Pyrimidine Ribonucleotides Interconversion	0.317	0.0294	NaN
Sirtuin Signaling Pathway	0.311	0.0205	2
DNA Methylation and Transcriptional Repression Signaling	0.308	0.0286	NaN
Pyrimidine Ribonucleotides De Novo Biosynthesis	0.299	0.0278	NaN
TWEAK Signaling	0.292	0.027	NaN
Superpathway of Methionine Degradation	0.292	0.027	NaN
Hereditary Breast Cancer Signaling	0.29	0.0211	NaN
Regulation of the Epithelial-Mesenchymal Transition Pathway	0.288	0.0205	NaN
Ceramide Signaling	0.287	0.0222	NaN
RANK Signaling in Osteoclasts	0.281	0.022	NaN
Antigen Presentation Pathway	0.276	0.0256	NaN
Factors Promoting Cardiogenesis in Vertebrates	0.256	0.0199	NaN
April Mediated Signaling	0.255	0.0238	NaN
B Cell Activating Factor Signaling	0.248	0.0233	NaN
BER (Base Excision Repair) Pathway	0.242	0.0227	NaN
iNOS Signaling	0.224	0.0213	NaN
nNOS Signaling in Skeletal Muscle Cells	0.218	0.0208	NaN