

Supplementary materials

Table S1: The clinical information of patients.

Id	futime	fustat	Age	Gender	Grade	Stage	T	M	N
TCGA-VQ-A8PS	406	1	76	MALE	G2	Stage IIIA	T3	M0	N1
TCGA-CG-4301	92	0	75	FEMALE	G3	Stage IV	T4	M1	N1
TCGA-R5-A7ZR	185	1	70	FEMALE	G2	Stage III	T3	M0	NX
TCGA-VQ-AA64	560	1	68	MALE	G2	Stage IIIB	T3	M0	N2
TCGA-BR-8686	635	1	69	MALE	G3	Stage IIIB	T4b	M0	N1
TCGA-B7-A5TJ	335	0	74	MALE	G1	Stage IIB	T4a	M0	NX
TCGA-BR-A4QL	491	1	75	FEMALE	G2	Stage IIIB	T3	M0	N3a
TCGA-D7-6817	389	0	63	MALE	G3	Stage IIIA	T2b	M0	N3
TCGA-BR-4366	0	0	87	MALE	G2	unknow	TX	M0	NX
TCGA-MX-A5UG	113	1	78	MALE	G3	Stage IIIA	T3	M0	N1
TCGA-IN-A6RJ	379	0	64	MALE	G3	Stage IA	T1b	M0	N0
TCGA-CG-4475	699	0	76	MALE	G3	Stage IIB	T3	M0	N1
TCGA-BR-8591	856	0	79	MALE	G3	Stage IIIC	T4a	M0	N3a
TCGA-BR-8676	229	0	59	MALE	G3	Stage IIIB	T3	M0	N3a
TCGA-D7-A4YV	180	0	69	FEMALE	G3	Stage IIB	T3	M0	N1
TCGA-BR-8285	17	1	57	FEMALE	G3	Stage IIIC	T4a	M0	N3a
TCGA-CD-5798	408	0	82	MALE	G2	Stage II	T3	M0	N0
TCGA-FP-A4BF	168	1	68	MALE	G3	Stage IIIA	T3	M0	N2
TCGA-VQ-A91D	356	1	70	MALE	G2	Stage IIIC	T4b	M0	N2
TCGA-BR-4184	212	1	70	MALE	G2	Stage IIIA	T3	MX	N1
TCGA-BR-8380	21	0	55	MALE	G3	Stage IIIC	T4a	M0	N3a
TCGA-VQ-A8PH	389	1	62	MALE	G2	Stage IIIB	T3	M0	N3
TCGA-BR-8382	762	1	67	FEMALE	G3	Stage IIIC	T4b	M0	N3a
TCGA-FP-A9TM	189	0	77	MALE	G2	unknow	T1b	M0	N1
TCGA-BR-8058	1133	0	53	FEMALE	G3	Stage IIIB	T4a	M0	N2
TCGA-CG-4469	215	1	70	MALE	G3	Stage IV	T3	M0	N3
TCGA-BR-6801	1223	0	70	MALE	G2	Stage IIA	T3	M0	N0
TCGA-BR-8361	946	0	71	FEMALE	G3	Stage IIIC	T4b	M0	N2
TCGA-D7-6522	566	0	58	MALE	G3	Stage IB	T2	M0	N0
TCGA-BR-4256	284	1	80	MALE	G2	unknow	TX	M0	N1
TCGA-VQ-A91Z	1690	0	67	FEMALE	G2	Stage IIIA	T3	M0	N1
TCGA-VQ-A91V	1297	0	58	MALE	G2	Stage IIIA	T3	M0	N2
TCGA-CG-4455	366	0	72	MALE	G3	Stage II	T2b	M0	N1
TCGA-CD-8529	374	0	65	MALE	G2	Stage IV	T4	M1	N0
TCGA-D7-A74A	607	0	61	FEMALE	G2	Stage IIIA	T3	M0	N2
TCGA-CG-4443	912	0	68	MALE	G2	Stage IA	T1	M0	N0
TCGA-BR-4368	0	0	78	FEMALE	G3	Stage IV	T4	M0	N2
TCGA-SW-A7EA	579	0	61	FEMALE	GX	Stage IB	T2	M0	N0
TCGA-D7-6518	582	0	75	MALE	G3	Stage IIIA	T2	M0	N3
TCGA-CG-5725	457	1	72	MALE	G3	Stage IB	T2	M0	N0

TCGA-VQ-A8PK	543	1	58	MALE	G2	Stage IIIB	T3	M0	N3a
TCGA-BR-A4PE	621	0	68	FEMALE	G2	Stage IB	T2	M0	N0
TCGA-BR-6563	1190	0	60	MALE	G3	Stage IIB	T3	M0	N1
TCGA-D7-A6EX	344	0	72	FEMALE	G3	Stage IIIA	T3	M0	N2
TCGA-VQ-A91S	1000	0	63	MALE	GX	Stage IIIB	T4b	M0	N1
TCGA-BR-4370	0	0	74	FEMALE	G2	unknow	TX	M0	NX
TCGA-BR-8373	450	0	65	FEMALE	G2	Stage IIIA	T4a	M0	N1
TCGA-CG-5718	1095	1	78	FEMALE	G2	Stage II	T2b	M0	N1
TCGA-RD-A7BS	336	1	46	MALE	G3	Stage IIIA	T3	M0	N1
TCGA-D7-A6EY	348	1	72	FEMALE	G3	Stage IIIB	T3	M0	N3a
TCGA-VQ-AA68	1328	0	52	FEMALE	G2	Stage IIIC	T4a	M0	N3
TCGA-BR-6802	940	0	65	MALE	G3	Stage IIIA	T3	M0	N2
TCGA-CG-4460	669	1	66	FEMALE	G2	Stage IV	T4	M1	N1
TCGA-CG-4474	0	0	67	FEMALE	G3	Stage IV	T4a	M1	N2
TCGA-VQ-A8DU	166	1	63	MALE	G2	Stage IIIA	T3	M0	N2
TCGA-BR-4267	188	1	51	MALE	G2	Stage IB	T2a	M0	N0
TCGA-RD-A8N4	2171	0	58	FEMALE	G3	Stage IIIA	T3	M0	N1
TCGA-VQ-A91E	664	0	67	FEMALE	G3	Stage IIIB	T4b	M0	N0
TCGA-IN-AB1X	411	0	78	FEMALE	G3	Stage IIA	T3	M0	N0
TCGA-BR-8381	224	0	51	MALE	G3	Stage IIB	T3	M0	N1
TCGA-HU-A4GH	358	0	75	MALE	G2	Stage IA	T1b	M0	N0
TCGA-CG-5730	122	0	80	FEMALE	G2	Stage IV	T2	M1	N1
TCGA-BR-8286	895	0	49	MALE	G3	Stage II	T3	M0	N0
TCGA-BR-A4PF	35	0	72	MALE	G3	Stage IIIB	T4a	M0	N2
TCGA-HU-A4H8	270	0	77	MALE	G2	Stage IB	T1b	M0	N1
TCGA-CD-8524	388	0	61	FEMALE	G3	Stage II	T3	M0	N0
TCGA-IN-A6RP	196	0	63	MALE	G3	unknow	T1b	M0	N3
TCGA-B7-A5TK	288	0	51	MALE	G3	Stage IIIA	T4	M0	unknow
TCGA-CG-4438	1645	0	56	MALE	G3	Stage IV	T4	M0	N2
TCGA-VQ-A8PP	712	1	76	MALE	G2	Stage IV	T4	M0	N1
TCGA-BR-4371	0	0	71	FEMALE	G1	unknow	T2	M0	NX
TCGA-BR-8296	474	1	58	FEMALE	G3	Stage IIIC	T4b	M0	N2
TCGA-VQ-A928	174	1	49	MALE	G2	Stage IV	T3	M0	N3
TCGA-D7-8574	523	0	72	MALE	G3	Stage IIIA	T2	M0	N3a
TCGA-HU-A4H3	882	0	56	FEMALE	G3	Stage IIIC	T4a	M0	N3b
TCGA-D7-6524	543	0	53	MALE	G3	Stage II	T2	M0	N1
TCGA-MX-A666	427	0	61	MALE	G2	Stage IIA	T2	MX	NX
TCGA-BR-8592	191	1	63	FEMALE	G3	Stage IIIB	T4b	M0	N1
TCGA-BR-6455	422	1	59	MALE	G3	Stage IIB	T3	M0	N1
TCGA-BR-6707	605	1	75	MALE	G3	Stage IIA	T3	M0	N0
TCGA-BR-A4PD	628	0	72	FEMALE	G3	Stage IIB	T4a	M0	N0
TCGA-D7-A74B	217	1	52	FEMALE	G3	Stage IIIB	T3	M0	N3
TCGA-CD-8533	468	0	48	MALE	G3	Stage II	T3	M0	N0
TCGA-CD-A4MI	358	1	62	MALE	G1	Stage IIIA	T3	M0	N1

TCGA-CG-4465	274	1	69	FEMALE	G3	Stage IV	T4	M1	N3
TCGA-CD-5803	341	1	78	FEMALE	G3	Stage II	T3	M0	N0
TCGA-D7-A6F0	678	0	79	FEMALE	G3	Stage IB	T2	M0	N0
TCGA-BR-7197	280	0	69	MALE	GX	Stage II	T3	M0	N0
TCGA-BR-8384	113	0	69	MALE	G3	Stage IIIC	T4b	M0	N2
TCGA-F1-6874	440	0	79	MALE	G3	Stage IB	T2	M0	N0
TCGA-CG-4449	580	0	81	MALE	G2	Stage II	T2	M0	N1
TCGA-D7-6527	312	1	62	MALE	G2	Stage II	T2	M0	N1
TCGA-VQ-AA6D	521	0	52	FEMALE	G2	Stage IIIA	T4a	M0	N1
TCGA-CG-4477	942	0	58	FEMALE	G3	Stage IB	T2a	M0	N0
TCGA-D7-6525	406	1	58	MALE	G3	Stage IIIA	T2	M0	N2
TCGA-IN-8462	572	0	80	MALE	G2	Stage IIB	T2	M0	N1
TCGA-CD-A486	192	1	68	MALE	G2	Stage IIA	T3	M0	N0
TCGA-HU-8610	23	0	75	MALE	G2	Stage IA	T1b	M0	N0
TCGA-BR-4363	0	0	60	FEMALE	G3	unknow	T3	MX	NX
TCGA-VQ-A923	0	1	90	MALE	G3	Stage IIIA	T3	M0	N1
TCGA-HU-A4GU	200	0	73	MALE	G3	Stage IIB	T3	M0	N1
TCGA-CG-5727	2405	0	66	MALE	G3	Stage II	T3	M0	N0
TCGA-RD-A8N5	1747	1	78	MALE	G2	Stage IIIA	T3	M0	N1
TCGA-B7-5816	812	0	51	FEMALE	G3	Stage IIB	T4a	M0	N0
TCGA-IN-7806	1106	0	50	MALE	G3	Stage IIB	T3	M0	N1
TCGA-CG-4466	577	0	81	FEMALE	G2	Stage IB	T2a	M0	N0
TCGA-HU-8249	881	0	76	MALE	G2	Stage IIIA	T3	M0	N2
TCGA-HU-A4GF	785	0	69	MALE	G2	Stage IIA	T3	M0	N0
TCGA-D7-A747	255	1	57	MALE	G3	Stage IIB	T3	M0	N1
TCGA-HU-A4H4	725	0	53	FEMALE	G3	Stage IIB	T2	M0	N2
TCGA-CG-4472	365	0	49	MALE	G3	Stage IV	T4	M0	N1
TCGA-VQ-A8PB	1043	1	65	FEMALE	G2	Stage II	T3	M0	N0
TCGA-R5-A7O7	1389	0	51	MALE	G2	Stage IV	T3	M1	N1
TCGA-BR-8363	8	1	73	FEMALE	G3	Stage IB	T2	M0	N0
TCGA-CD-8536	378	0	74	MALE	G3	Stage II	T3	M0	N0
TCGA-BR-7715	1023	0	65	MALE	G2	Stage IIA	T3	M0	N0
TCGA-BR-4361	0	0	66	FEMALE	G3	Stage IIIA	T4	M0	N0
TCGA-BR-4367	0	0	78	MALE	G3	unknow	TX	M0	N1
TCGA-BR-8483	164	0	59	MALE	G2	Stage IIIA	T3	M0	N2
TCGA-CG-4476	0	0	69	MALE	G3	Stage IIIC	T4b	M0	N3a
TCGA-VQ-A91N	570	1	59	FEMALE	G2	Stage IV	T4	M0	N3
TCGA-BR-4188	226	1	53	FEMALE	G3	unknow	TX	M0	N1
TCGA-CG-5726	881	1	73	MALE	G2	Stage IA	T1	M0	N0
TCGA-BR-7704	1072	0	69	FEMALE	G3	Stage II	T3	M0	N0
TCGA-D7-8573	593	0	57	MALE	G3	Stage IIA	T3	M0	N0
TCGA-HU-A4HD	1016	0	73	MALE	G2	Stage IIIA	T3	M0	N2
TCGA-FP-7829	594	0	69	MALE	G2	Stage IIB	T3	M0	N1
TCGA-BR-8680	972	0	45	MALE	G2	Stage IV	T4b	M1	N2

TCGA-D7-A6EV	342	0	71	FEMALE	G3	Stage IIB	T2	M0	N2
TCGA-IN-A6RI	559	0	45	MALE	G2	Stage I	T1b	M0	N0
TCGA-BR-6706	549	1	63	MALE	G3	Stage IIIA	T3	M0	N1
TCGA-HF-7132	2351	0	unknow	MALE	G2	Stage II	T2b	M0	N1
TCGA-BR-8364	675	0	42	FEMALE	G3	Stage IIIC	T4b	M0	N2
TCGA-VQ-A927	200	1	81	MALE	G1	Stage IIIB	T3	M0	N3
TCGA-BR-8485	280	0	68	FEMALE	G3	Stage IIIC	T4	M0	N3a
TCGA-VQ-A94T	342	1	73	MALE	G3	Stage IIIB	T3	M0	N2
TCGA-BR-A4J4	16	0	39	MALE	G3	Stage IIIB	T4a	M0	N2
TCGA-BR-8284	245	1	72	FEMALE	G3	Stage IIIC	T4a	M0	N3a
TCGA-BR-7717	552	1	63	MALE	G2	Stage IV	T4	M0	N1
TCGA-BR-8077	21	0	58	FEMALE	G2	Stage IIIB	T4b	M0	N1
TCGA-BR-6458	588	1	57	FEMALE	G3	Stage IIB	T3	M0	N1
TCGA-BR-A4J7	989	0	49	MALE	G3	Stage IIB	T4a	M0	NX
TCGA-VQ-AA6G	792	1	68	MALE	G2	Stage IIA	T3	M0	N0
TCGA-BR-8060	348	1	75	FEMALE	G3	Stage IIB	T2	M0	N2
TCGA-BR-A4J1	22	1	63	MALE	G3	Stage IIIA	T4a	M0	N1
TCGA-HU-8602	679	0	58	FEMALE	G3	Stage IIB	T4a	M0	N0
TCGA-CG-5722	30	0	67	FEMALE	G3	Stage IV	T3	M1	N2
TCGA-KB-A6F7	1935	0	54	FEMALE	G3	Stage IB	T1	M0	N1
TCGA-KB-A6F5	169	0	73	MALE	G3	Stage IIIA	T3	M0	N2
TCGA-CG-4300	609	1	79	MALE	G2	Stage IIIB	T3	M0	N2
TCGA-HU-A4GY	8	0	76	FEMALE	G3	Stage IIIA	T4	M0	N1
TCGA-BR-A4J9	14	0	55	MALE	G3	Stage IIA	T3	M0	N0
TCGA-HU-A4GQ	3	1	71	MALE	G2	Stage IIIC	T4b	M0	N2
TCGA-IN-A7NU	356	0	69	MALE	G3	Stage IIIB	T3	M0	N3
TCGA-RD-A7C1	507	1	82	MALE	G3	Stage IB	T2	M0	N0
TCGA-IN-A6RN	594	0	72	FEMALE	G2	Stage IIA	T1b	M0	N2
TCGA-RD-A8MW	1153	1	72	MALE	G3	Stage IIIB	T3	M0	N2
TCGA-BR-8367	801	1	55	MALE	G3	Stage IIIB	T3	M0	N3a
TCGA-CD-5799	396	0	45	MALE	G3	Stage II	T2	M0	N1
TCGA-VQ-A8PM	57	1	56	MALE	G3	Stage IV	T4	M0	N3
TCGA-VQ-A922	275	1	70	MALE	G2	Stage IV	T4	M0	N1
TCGA-BR-8362	398	1	65	MALE	G3	Stage IIIC	T4b	M0	N3a
TCGA-BR-8370	101	0	64	MALE	G3	Stage IIIB	T3	M0	N3a
TCGA-BR-6452	1055	0	78	FEMALE	G3	Stage IIA	T3	M0	N0
TCGA-HU-A4GJ	650	0	60	FEMALE	G3	Stage IIIC	T4	M0	N3a
TCGA-BR-7851	378	0	74	MALE	G3	Stage IIB	T4a	M0	N0
TCGA-FP-7735	106	1	77	MALE	G2	Stage IB	T2	MX	N0
TCGA-HU-8245	552	0	72	MALE	G3	Stage IIA	T3	M0	N0
TCGA-CD-5801	401	1	69	MALE	G3	Stage IIIA	T3	M0	N1
TCGA-CG-5723	2496	0	83	MALE	G3	Stage II	T2	M0	N1
TCGA-BR-A4IZ	273	1	45	FEMALE	G3	Stage IIIB	T4a	M0	N2
TCGA-CG-4441	426	1	83	MALE	G2	Stage IIIA	T2	M0	N2

TCGA-HU-A4GC	99	0	74	MALE	G3	Stage IIIB	T4a	M0	N2
TCGA-D7-A4YY	419	0	61	MALE	G3	Stage IIIB	T3	M0	N3a
TCGA-D7-A4Z0	449	0	60	FEMALE	G3	Stage IIB	T2	M0	N2
TCGA-D7-8570	752	0	44	MALE	G3	Stage IIIB	T3	M0	N3a
TCGA-VQ-A8PQ	476	1	50	FEMALE	G2	Stage IV	T4	M1	N1
TCGA-RD-A7BT	262	1	66	MALE	G3	Stage IV	T3	M0	N3
TCGA-CD-8535	390	0	59	MALE	G3	Stage IIIA	T3	M0	N1
TCGA-VQ-A8PU	832	1	72	FEMALE	G3	Stage IIIA	T4a	M0	N1
TCGA-VQ-A8P8	942	0	72	FEMALE	G2	Stage IIB	T4a	M0	N0
TCGA-HU-A4G3	170	0	54	MALE	G2	Stage IIB	T2	M0	N2
TCGA-BR-8687	250	1	67	FEMALE	G3	Stage IIIC	T4b	M0	N2
TCGA-HF-7133	1918	0	unknow	FEMALE	G2	Stage IV	T2b	M0	N3
TCGA-D7-A748	132	1	41	FEMALE	G3	Stage IV	T4a	M1	N3
TCGA-D7-5579	636	0	74	MALE	G3	Stage IIIA	T3	M0	N2
TCGA-BR-6564	794	1	46	FEMALE	G3	Stage IIIA	T3	M0	N2
TCGA-CG-4304		0	84	MALE	G2	Stage IB	T2a	M0	N0
TCGA-VQ-A8E0	562	1	68	MALE	G3	Stage IIIA	T3	M0	N2
TCGA-BR-8677	813	0	74	FEMALE	G3	Stage IIIB	T3	M0	N3a
TCGA-CD-5802	406	0	58	MALE	G2	Stage II	T3	M0	N0
TCGA-RD-A8N1	3519	0	70	MALE	G3	Stage IIIB	T3	M0	N2
TCGA-HU-A4GP	273	0	62	FEMALE	G2	Stage IIA	T2	M0	N1
TCGA-VQ-A94R	1294	1	63	MALE	G2	unknow	T4a	M0	N2
TCGA-BR-8080	292	1	72	FEMALE	G3	Stage IIIC	T4	M0	N3a
TCGA-BR-4369	0	0	75	MALE	G3	unknow	TX	M0	NX
TCGA-BR-A4J2	431	0	70	MALE	G3	Stage IIB	T4a	M0	N0
TCGA-BR-A4J5	862	0	56	MALE	G3	Stage IIIA	T4a	M0	N1
TCGA-CD-8528	375	0	43	FEMALE	G3	Stage IIIA	T4	M0	N0
TCGA-VQ-A94P	81	1	57	MALE	GX	unknow	T4	MX	NX
TCGA-BR-A4IY	392	0	58	MALE	G3	Stage IIB	T4a	M0	N0
TCGA-CG-5720	30	1	71	MALE	G3	Stage IB	T2	M0	N0
TCGA-MX-A663	300	1	66	MALE	G3	Stage IIA	T3	M0	N0
TCGA-CG-4442	0	0	85	MALE	G3	Stage IB	T2	M0	N0
TCGA-D7-6528	463	0	70	FEMALE	G2	Stage IB	T2	M0	N0
TCGA-VQ-A8E7	1138	0	59	MALE	G2	Stage IV	T3	M1	N1
TCGA-IN-AB1V	479	0	63	MALE	G2	Stage IA	T1b	M0	N0
TCGA-BR-4255	124	1	76	FEMALE	G3	Stage IIIA	T3	M0	N1
TCGA-BR-6453	485	0	54	MALE	G3	Stage IIA	T2	M0	N1
TCGA-BR-8295	67	1	60	FEMALE	G3	Stage IIB	T4a	M0	N0
TCGA-VQ-A91W	1851	0	30	MALE	G2	Stage IIIA	T3	M0	N1
TCGA-CD-8530	377	0	51	MALE	G3	Stage II	T3	M0	N0
TCGA-CG-4436	243	0	57	MALE	G2	Stage IB	T2	M0	N0
TCGA-HU-8244	742	0	77	FEMALE	G1	Stage IA	T1a	M0	N0
TCGA-CG-5728	579	0	88	FEMALE	G3	Stage IB	T2	M0	N0
TCGA-BR-4187	141	1	56	MALE	G3	unknow	TX	M0	NX

TCGA-D7-6520	573	0	53	MALE	G3	Stage IIIA	T2b	M0	N2
TCGA-KB-A93H	1145	0	79	FEMALE	G1	Stage IIB	T3	M0	N1
TCGA-IN-A6RS	383	0	76	MALE	G2	Stage IA	T1b	M0	N0
TCGA-VQ-AA6B	1002	0	48	MALE	G2	Stage IIIB	T3	M0	N2
TCGA-VQ-A94U	819	0	70	MALE	G3	Stage IIB	T4a	M0	N0
TCGA-BR-A452	229	1	57	MALE	G3	Stage IIIA	T4a	M0	N1
TCGA-VQ-AA6K	378	1	59	MALE	G3	Stage IIIC	T4a	M0	N3a
TCGA-VQ-A925	138	1	66	MALE	G2	Stage IIIA	T3	M0	N2
TCGA-BR-6852	1367	0	64	FEMALE	G3	Stage IIA	T3	M0	N0
TCGA-VQ-A8DZ	396	1	70	MALE	G3	Stage IV	T4	M1	N3
TCGA-RD-A8N0	1236	0	53	FEMALE	G3	Stage IIIB	T3	M0	N2
TCGA-BR-8078	900	0	70	FEMALE	G3	Stage IIB	T4a	M0	N0
TCGA-CD-5800	400	0	51	FEMALE	G1	Stage II	T3	M0	N0
TCGA-CD-8531	383	0	66	FEMALE	G3	Stage IIIA	T3	M0	N1
TCGA-R5-A804	140	1	54	MALE	G3	Stage IV	T3	M1	N2
TCGA-KB-A93J	1124	0	78	MALE	G3	Stage II	T2b	M0	N1
TCGA-CG-4306	1	1	90	MALE	G3	Stage IV	T3	M1	N2
TCGA-D7-8572	511	0	57	MALE	G2	Stage IIB	T2	M0	N2
TCGA-CD-8534	367	0	41	MALE	G3	Stage II	T3	M0	N0
TCGA-R5-A7ZF	259	1	65	FEMALE	G2	Stage IV	T4a	M1	N1
TCGA-HF-7134	1588	0	unknow	MALE	G2	Stage IA	T1	M0	N0
TCGA-D7-5578	385	0	80	MALE	G3	Stage IIIA	T3	M0	N2
TCGA-VQ-A8PE	675	1	78	MALE	G3	Stage IIIB	T3	M0	N3a
TCGA-HU-A4GT	198	0	71	FEMALE	G3	Stage IIA	T3	M0	N0
TCGA-CG-5734	243	1	68	MALE	G3	Stage IIIA	T3	M0	N1
TCGA-VQ-A8DT	1484	0	43	MALE	G3	Stage IIIB	T3	M0	N3a
TCGA-FP-7916	428	1	77	MALE	G3	Stage IIIC	T4a	MX	N3a
TCGA-CD-A4MG	200	1	76	MALE	G3	Stage IIA	T3	M0	N0
TCGA-RD-A8N2	3540	0	59	FEMALE	G3	Stage IB	T2	M0	N0
TCGA-BR-A4CQ	1064	0	58	MALE	G3	Stage IIIA	T4a	M0	N1
TCGA-D7-6519	625	0	64	FEMALE	G3	unknow	T2	M0	N1
TCGA-CG-5732	2100	1	66	MALE	G2	Stage IV	T2	M0	N3
TCGA-CD-8527	218	1	72	FEMALE	G2	Stage II	T2	M0	N1
TCGA-BR-7703	1100	0	81	MALE	G2	Stage IA	T1b	M0	N0
TCGA-HF-A5NB	928	0	75	FEMALE	G3	Stage IIIC	T4a	M0	N3a
TCGA-HU-A4GD	692	0	56	MALE	G3	Stage IIB	T3	M0	N1
TCGA-RD-A8N9	1083	0	63	FEMALE	G3	Stage II	T2	M0	N1
TCGA-BR-6709	370	1	57	FEMALE	G3	Stage IIIB	T3	M0	N3a
TCGA-D7-6818	376	1	53	MALE	G3	Stage IIIA	T2	M0	N3
TCGA-CG-4444	1431	0	76	MALE	G3	Stage IIIA	T2b	M0	N2
TCGA-BR-8366	29	0	80	FEMALE	G3	Stage IIA	T3	M0	N0
TCGA-CD-A4MH	371	0	86	FEMALE	G2	Stage IIA	T3	M0	N0
TCGA-BR-8683	300	1	75	MALE	G3	Stage IIIB	T4a	M0	N2
TCGA-BR-8484	766	1	61	MALE	G2	Stage IIIA	T4a	M0	N1

TCGA-D7-8575	554	1	75	MALE	G3	Stage IIIA	T3	M0	N2
TCGA-BR-8679	0	0	63	FEMALE	G2	Stage IB	T2	M0	N0
TCGA-BR-8371	359	1	62	MALE	G3	Stage IIIB	T3	M0	N3a
TCGA-BR-4357	0	0	58	MALE	G2	unknow	T3	MX	NX
TCGA-CG-4437	245	0	83	MALE	G2	Stage II	T2	M0	N1
TCGA-BR-A4J8	411	0	71	FEMALE	G3	Stage IIIB	T3	M0	N3a
TCGA-FP-8099	519	0	79	MALE	G2	Stage IIA	T3	MX	N0
TCGA-RD-A8MV	3720	0	56	MALE	G3	Stage IIIB	T3	M0	N2
TCGA-BR-8486	0	0	90	FEMALE	G2	Stage IA	T1b	M0	N0
TCGA-BR-4253	124	1	80	FEMALE	G3	Stage IIIA	T3	M0	N1
TCGA-F1-6177	0	0	90	MALE	G2	Stage I	T1b	MX	N1
TCGA-D7-A6EZ	618	1	66	MALE	G3	Stage IIIA	T3	M0	N2
TCGA-VQ-A924	1686	1	69	MALE	G2	Stage II	T3	M0	N0
TCGA-BR-7723	874	1	59	MALE	G3	Stage IIIB	T3	M0	N3a
TCGA-VQ-AA69	864	0	35	MALE	G2	Stage IIIA	T3	M0	N2
TCGA-HU-A4H0	64	0	72	MALE	G3	Stage IIIC	T4a	M0	N3b
TCGA-BR-8291	607	1	61	MALE	GX	Stage IIB	T3	M0	N1
TCGA-CG-5717	212	1	58	MALE	G3	Stage II	T2b	M0	N1
TCGA-HU-A4G9	736	0	67	FEMALE	G2	Stage IA	T1a	M0	N0
TCGA-HF-7136		0	unknow	MALE	G2	Stage IIIA	T3	M0	N1
TCGA-HJ-7597	805	1	71	FEMALE	G3	Stage IB	T2b	MX	N0
TCGA-CD-5804	0	0	90	MALE	G2	unknow	T3	M0	N1
TCGA-BR-4201	940	1	66	FEMALE	G1	unknow	T2a	M0	NX
TCGA-BR-6454	0	0	58	MALE	G3	Stage IIA	T3	M0	N0
TCGA-3M-AB46	1765	0	70	MALE	G2	Stage IB	T2b	MX	N0
TCGA-CD-A48C	353	1	79	FEMALE	G3	Stage IIB	T3	M0	N1
TCGA-D7-6820	344	0	64	MALE	G2	Stage IIB	T2	M0	N1
TCGA-BR-A44U	422	1	70	MALE	G3	Stage IIIB	T3	M0	N3a
TCGA-BR-7196	666	0	64	MALE	G3	Stage IV	T3	M1	N3a
TCGA-FP-8210	153	1	48	MALE	G3	Stage IIIA	T3	M0	N1
TCGA-BR-8690	325	0	54	FEMALE	G2	Stage IIIB	T3	M0	N3a
TCGA-BR-8368	131	0	84	FEMALE	G3	Stage IB	T2	M0	N0
TCGA-CG-5716	0	0	86	MALE	G2	Stage IV	T4a	M1	N2
TCGA-BR-8081	981	0	71	FEMALE	G2	Stage IIB	T4a	M0	N0
TCGA-HU-A4GN	912	0	61	MALE	G2	Stage IIA	T2	M0	N1
TCGA-CD-A489	344	1	58	MALE	G3	Stage IIA	T3	M0	N0
TCGA-RD-A8N6	272	1	78	FEMALE	G3	Stage IIIA	T2	M0	N2
TCGA-BR-8289	81	1	57	MALE	G3	Stage IV	T4	M1	N3a
TCGA-RD-A8NB	513	1	80	FEMALE	G3	Stage IIIA	T3	M0	N1
TCGA-VQ-A8PJ	82	1	53	MALE	GX	Stage IV	T4	M1	N2
TCGA-D7-6526	523	0	67	FEMALE	G2	Stage IIIA	T3	M0	N2
TCGA-CG-5721	183	0	58	MALE	G3	Stage IV	T4	M0	N1
TCGA-BR-6710	273	0	41	MALE	G2	Stage IB	T2	M0	N0
TCGA-EQ-5647	19	1	86	FEMALE	G2	Stage IV	T4	M1	N3

TCGA-B7-A5TI	595	0	52	MALE	G3	Stage IIIC	T4	M0	N3
TCGA-FP-8209	1811	1	49	MALE	G3	Stage IB	T2a	M0	N0
TCGA-RD-A7BW	156	1	68	FEMALE	G3	Stage IB	T2	M0	N0
TCGA-R5-A7ZI	2267	0	44	FEMALE	G3	Stage IV	T4	M1	N1
TCGA-BR-4280	201	1	78	FEMALE	G2	Stage III	T2b	M0	N1
TCGA-HU-A4H2	394	0	58	FEMALE	G2	Stage IIIB	T3	M0	N3b
TCGA-HU-A4G6	738	0	74	MALE	G3	Stage IA	T1b	M0	N0
TCGA-IN-A6RO		1	70	MALE	G2	Stage IA	T1b	M0	N0
TCGA-CD-A48A	378	0	57	MALE	G2	Stage IIA	T3	M0	N0
TCGA-CD-8526	381	0	73	FEMALE	G3	Stage IIIA	T3	M0	N1
TCGA-FP-8211	413	0	62	MALE	G2	Stage IIB	T3	MX	N1
TCGA-BR-8369	427	0	76	FEMALE	G3	Stage IIIB	T3	M0	N3a
TCGA-ZA-A8F6	525	0	71	MALE	G2	Stage IB	T2	MX	N0
TCGA-CD-5813	377	1	60	MALE	G3	Stage II	T3	M0	N0
TCGA-EQ-8122	243	1	71	FEMALE	G3	Stage IIB	T3	MX	N1
TCGA-BR-4292	0	0	73	FEMALE	G1	unknow	T1	M0	NX
TCGA-R5-A805	281	1	71	MALE	G3	Stage IIIB	T3	M0	N2
TCGA-VQ-A91A	1200	0	67	MALE	G1	Stage IIIB	T3	M0	N3a
TCGA-VQ-A91Q	633	1	61	MALE	G3	Stage IV	T3	M0	N3
TCGA-BR-A4QM	156	0	65	MALE	G3	Stage IIIA	T3	M0	N2
TCGA-FP-A8CX	7	0	60	MALE	G3	Stage IIIC	T4b	MX	N3a
TCGA-BR-8487	34	0	64	FEMALE	G3	Stage IIA	T3	M0	N0
TCGA-HU-A4G2	739	0	45	MALE	G3	Stage IIB	T3	M0	N1
TCGA-IN-A6RL	406	1	84	MALE	G2	unknow	T2	M0	N1
TCGA-BR-7959	1010	0	59	MALE	G3	Stage IIIA	T4a	M0	N1
TCGA-D7-8578	643	0	72	MALE	G2	Stage IB	T2	M0	N0
TCGA-CG-5724	366	1	59	MALE	G3	Stage IV	T3	M1	N3
TCGA-F1-A448	647	0	70	MALE	G3	Stage IIIB	T3	M0	N3b
TCGA-BR-6456	526	1	74	FEMALE	G2	Stage IIB	T3	M0	N1
TCGA-CG-4462	0	1	72	FEMALE	G3	Stage IV	T3	M1	N3
TCGA-VQ-AA6F	1646	0	57	MALE	G2	Stage IIB	T3	M0	N1
TCGA-VQ-A8PY	436	1	47	FEMALE	G2	Stage IIIB	T3	M0	N2
TCGA-VQ-A91U	52	1	78	MALE	G2	Stage IIIA	T3	M0	N1
TCGA-D7-5577	782	1	53	FEMALE	G2	Stage IIIA	T2	M0	N3
TCGA-BR-8678	754	0	76	MALE	G2	Stage IB	T2	M0	N0
TCGA-D7-6822	375	0	77	MALE	G2	Stage IB	T2	M0	N0
TCGA-BR-A4CS	45	1	77	MALE	G3	Stage IIIC	T4b	M0	N3a
TCGA-BR-8588	389	0	55	FEMALE	G3	Stage IIB	T4a	M0	N0
TCGA-VQ-A8PD	496	1	69	MALE	G2	Stage IIIC	T4a	M0	N3
TCGA-FP-A4BE	337	0	55	MALE	G3	Stage IIA	T3	M0	N0
TCGA-D7-A6F2	476	0	62	MALE	G3	Stage IB	T2	M0	N0
TCGA-VQ-A8DL	28	1	69	FEMALE	G2	Stage IIA	T3	M0	N0
TCGA-HU-A4H6	644	0	72	FEMALE	G2	Stage IIIA	T3	M0	N2
TCGA-BR-4191	558	1	72	MALE	G2	unknow	TX	M0	N1

TCGA-BR-A4J6	20	0	69	FEMALE	G2	Stage IIA	T3	M0	N0
TCGA-IN-8663	103	1	68	MALE	G3	Stage IIB	T2	M0	N2
TCGA-VQ-A92D	2032	0	67	MALE	G2	Stage IB	T2b	M0	N0
TCGA-FP-8631	17	0	68	MALE	G2	Stage IIIA	T3	MX	N2
TCGA-IN-7808	105	1	59	MALE	G3	unknow	T3	M1	N3
TCGA-HU-A4H5	724	0	71	MALE	GX	Stage IB	T2	M0	N0
TCGA-D7-A4YT	434	0	56	MALE	G2	Stage IIIA	T2	M0	N3a
TCGA-SW-A7EB	176	0	45	MALE	G2	Stage IIIA	T3	M0	N2
TCGA-D7-8579	636	0	66	FEMALE	G2	Stage IIB	T2	M0	N2
TCGA-D7-A4YU	500	0	73	MALE	G3	Stage IIIB	T3	M0	N3a
TCGA-CD-A4MJ	384	0	60	MALE	G2	Stage IB	T2	M0	N0
TCGA-IN-A6RR	205	1	84	MALE	G3	unknow	T3	M0	N1
TCGA-VQ-A91X	289	1	74	MALE	G3	Stage IIIB	T3	M0	N2
TCGA-VQ-A8P5	235	1	67	MALE	G3	Stage IIA	T3	M0	N0
TCGA-BR-6566	997	0	64	FEMALE	G3	Stage IIA	T3	M0	N0
TCGA-BR-8372	951	0	63	MALE	G3	Stage IIIC	T4b	M0	N3a
TCGA-F1-A72C	346	0	68	MALE	G2	Stage IIA	T3	M0	N0
TCGA-CG-5719	31	0	54	FEMALE	G1	Stage IV	T4	M1	N0
TCGA-BR-A4QI	652	1	70	FEMALE	G3	Stage IIA	T3	M0	N0
TCGA-BR-8590	284	1	62	MALE	G3	Stage IIIC	T4b	M0	N2
TCGA-CG-4440	122	1	68	FEMALE	G3	Stage IV	T3	M1	N3
TCGA-BR-A4IU	838	0	34	FEMALE	G3	Stage IIIA	T4a	M0	N1
TCGA-VQ-A8E2	1319	0	57	MALE	G2	Stage IIIB	T3	M0	N2
TCGA-VQ-AA6A	1184	0	56	MALE	G2	Stage IIIC	T4	M0	N3a
TCGA-BR-6705	779	1	68	FEMALE	G3	Stage IIIB	T3	M0	N3a
TCGA-BR-8059	439	1	72	MALE	G3	Stage III	T4	M0	N1
TCGA-CD-8532	354	1	52	MALE	G2	Stage II	T3	M0	N0
TCGA-BR-7707	1090	0	69	FEMALE	G3	Stage IB	T2	M0	N0
TCGA-VQ-A8PT	900	0	65	MALE	G3	Stage IIIB	T4b	M0	N0
TCGA-BR-A4CR	0	0	70	FEMALE	G3	Stage IIIC	T4b	M0	N3a
TCGA-HU-8243	180	1	66	MALE	G2	Stage IIIC	T4a	M0	N3b
TCGA-CG-5733	641	1	83	FEMALE	G3	Stage IIIA	T2	M0	N2
TCGA-D7-8576	446	1	54	FEMALE	G3	Stage IIIB	T3	M0	N3a
TCGA-VQ-A8E3	661	1	79	MALE	G3	Stage IIA	T3	M0	N0
TCGA-BR-A4IV	869	1	47	MALE	G3	Stage IIIB	T4a	M0	N2
TCGA-D7-6815	486	0	70	FEMALE	G2	Stage IIB	T2	M0	N2
TCGA-VQ-A91K	1862	0	69	MALE	G2	Stage IIIA	T3	M0	N1
TCGA-VQ-A8PX	1964	0	51	MALE	G2	Stage IA	T1	M0	N0
TCGA-BR-A453	185	1	51	MALE	G3	Stage IV	T4a	M1	N3a
TCGA-BR-8365	533	1	70	FEMALE	G3	Stage IIA	T3	M0	N0
TCGA-HU-8238	46	0	56	MALE	G2	unknow	T3	M0	unknow
TCGA-BR-8589	825	0	56	MALE	G3	Stage IIIB	T4b	M0	N1
TCGA-BR-4183	201	1	55	FEMALE	G3	Stage IIIA	T3	M0	N1
TCGA-BR-7722	466	1	62	MALE	G3	Stage IIB	T3	M0	N1

TCGA-B7-A5TN	287	0	60	MALE	G2	Stage IIB	T4a	M0	NX
TCGA-BR-6457	416	0	69	MALE	G3	Stage IIA	T3	M0	N0
TCGA-BR-4257	294	1	79	FEMALE	G2	unknow	TX	M0	NX
TCGA-BR-8360	188	0	66	MALE	G2	Stage IIA	T3	M0	N0
TCGA-KB-A93G	613	0	68	MALE	G1	Stage IB	T2	M0	N0
TCGA-IN-A7NR	198	0	64	FEMALE	G3	Stage IV	T3	M1	N3
TCGA-BR-7716	1210	0	62	FEMALE	G2	Stage IIB	T3	M0	N1
TCGA-HF-7131		0	unknow	FEMALE	G2	Stage IB	T2b	MX	N0
TCGA-EQ-A4SO	494	0	70	MALE	G2	Stage IIIB	T4b	MX	N1
TCGA-D7-A6ET	804	0	76	MALE	G2	Stage IIIB	T3	M0	N3a
TCGA-HU-8604	694	0	82	FEMALE	G2	Stage IIA	T3	M0	N0
TCGA-VQ-A8P2	1160	0	68	MALE	G2	Stage IIIA	T4a	M0	N1
TCGA-VQ-A94O	640	1	74	MALE	G2	Stage IIIC	T4a	M0	N3
TCGA-HU-A4GX	616	0	70	FEMALE	G3	Stage IIIC	T4b	M0	N2
TCGA-VQ-A8P3	1132	0	72	MALE	G2	Stage IIIA	T4	M0	N1
TCGA-B7-5818	356	0	62	MALE	G3	Stage IB	T2	M0	N0
TCGA-BR-4362	0	0	74	FEMALE	G3	unknow	TX	M0	N1
TCGA-IP-7968	77	0	74	MALE	G2	Stage IIIB	T3	MX	N2
TCGA-3M-AB47		1	51	MALE	G3	Stage IIIB	T3	MX	N2
TCGA-VQ-A8PO	282	1	74	MALE	G3	Stage IIB	T4a	M0	N0
TCGA-BR-8682	991	0	52	MALE	G3	Stage IIB	T4a	M0	N0
TCGA-ZQ-A9CR	24	1	79	FEMALE	G3	Stage IIIC	T4a	MX	N3
TCGA-VQ-A8PZ	2233	0	56	FEMALE	G3	Stage II	T3	M0	N0
TCGA-BR-7958	899	0	60	MALE	G3	Stage IIIB	T4b	M0	N0
TCGA-BR-A44T	1038	0	53	FEMALE	G3	Stage IIA	T3	M0	N0
TCGA-BR-6565	279	1	67	MALE	G2	Stage IIB	T4a	M0	N0
TCGA-F1-6875	2197	1	79	MALE	G2	Stage IA	T2	M0	N0
TCGA-VQ-AA6I	491	1	68	MALE	G3	Stage IIIB	T3	M0	N3
TCGA-VQ-A8DV	403	1	48	MALE	G2	Stage IB	T2	M0	N0
TCGA-VQ-A8PC	1407	1	65	MALE	G3	Stage IIIA	T3	M0	N1
TCGA-BR-4294	0	0	65	MALE	G2	unknow	T2a	M0	NX
TCGA-HU-A4HB	477	1	68	MALE	G3	Stage IIB	T2	M0	N2
TCGA-BR-8297	225	0	58	MALE	GX	Stage IIIC	T4b	M0	N3a
TCGA-CD-A487	374	0	51	MALE	G3	Stage IIB	T3	M0	N1
TCGA-CD-8525	383	0	82	FEMALE	G3	Stage IIIA	T3	M0	N1
TCGA-HU-8608	641	0	70	MALE	G3	Stage IIIB	T4a	M0	N2
TCGA-D7-A4YX	1108	0	63	MALE	G3	Stage IIB	T3	M0	N1
TCGA-D7-6521	564	0	65	MALE	G3	unknow	T2b	M0	N2
TCGA-VQ-A91Y	296	1	67	MALE	G3	Stage IIIC	T4a	M0	N3b
TCGA-FP-7998	678	0	77	MALE	G3	Stage IIIC	T4a	MX	N3a
TCGA-BR-6803	949	0	54	FEMALE	G3	Stage IIA	T3	M0	N0
TCGA-BR-7901	105	1	74	MALE	G2	Stage IIB	T3	M0	N1
TCGA-BR-4279	291	1	43	MALE	G3	Stage II	T2a	M0	N1
TCGA-HU-A4G8	690	0	71	FEMALE	G3	Stage IIB	T3	M0	N1

TCGA-BR-7957	276	1	50	FEMALE	GX	Stage IV	T3	M1	N3a
TCGA-R5-A7ZE	554	1	66	FEMALE	G2	Stage IIIA	T3	M0	N2
TCGA-VQ-AA6J	838	0	75	MALE	G3	Stage IIIB	T4a	M0	N2
TCGA-CG-4305	485	0	69	MALE	G3	Stage II	T2a	M0	N1
TCGA-IN-A7NT	323	0	73	FEMALE	G3	Stage IIB	T3	M0	N1
TCGA-MX-A5UJ	600	0	86	FEMALE	G3	Stage IIIA	T3	M0	N2
TCGA-VQ-A8PF	76	1	76	MALE	G3	Stage IIIB	T3	M0	N3b

Table S2: The co-expression results of autophagy-related genes and autophagy-related lncRNAs.

autoGene	lncRNA	cor	pvalue	Regulation
ATG16L2	Z83843.1	0.504179366	1.43E-25	postive
ATG2B	Z83843.1	0.420170843	1.80E-17	postive
GAPDH	Z83843.1	-0.477865755	8.63E-23	negative
MLST8	Z83843.1	-0.452449596	2.53E-20	negative
P4HB	Z83843.1	-0.42763671	4.18E-18	negative
CXCR4	AC133644.1	0.458576671	6.72E-21	postive
ATG16L2	AC004918.3	0.453981791	1.82E-20	postive
ATG2B	AC004918.3	0.570405225	9.53E-34	postive
BIRC6	AC004918.3	0.43751644	5.76E-19	postive
TSC1	AC004918.3	0.412398496	7.87E-17	postive
DNAJB1	AC083809.1	0.411176702	9.89E-17	postive
GOPC	ANKRD10-IT1	0.42012391	1.81E-17	postive
MAP2K7	AL161421.1	0.411062971	1.01E-16	postive
MAPK8IP1	AL161421.1	0.466388216	1.19E-21	postive
ATG16L2	AC087749.1	0.400205987	7.41E-16	postive
SERPINA1	LINC01996	0.452120207	2.72E-20	postive
ERBB2	AC073508.3	0.41573763	4.19E-17	postive
ATG16L2	AC092436.2	0.556307431	7.49E-32	postive
CXCR4	AC092436.2	0.408038496	1.77E-16	postive
CAPN10	AC005391.1	0.422498216	1.14E-17	postive
ATG16L2	AL031282.2	0.44860857	5.74E-20	postive
BIRC5	AL928654.1	0.40977081	1.29E-16	postive
HSPA8	AL162274.2	-0.46927235	6.22E-22	negative
P4HB	AC007619.1	-0.415664964	4.25E-17	negative
ATG16L2	AL022328.3	0.58989169	1.60E-36	postive
IKBKB	AL022328.3	0.499083623	5.15E-25	postive
TSC1	AL022328.3	0.416355438	3.73E-17	postive
HSPA8	AC006480.2	-0.408477276	1.64E-16	negative
ATG16L2	AC005387.1	0.401996368	5.36E-16	postive
BECN1	AP003392.3	-0.412798396	7.30E-17	negative
ITPR1	LINC01082	0.438851255	4.38E-19	postive
NKX2-3	LINC01082	0.405016867	3.09E-16	postive
ATG16L2	AC073575.2	0.407585394	1.93E-16	postive
TSC1	AC073575.2	0.432007229	1.75E-18	postive
ATG16L2	AC109587.1	0.407187344	2.08E-16	postive
BAK1	AC109587.1	-0.429220973	3.06E-18	negative
GAPDH	AC109587.1	-0.446356937	9.23E-20	negative
MLST8	AC109587.1	-0.427393985	4.39E-18	negative
P4HB	AC109587.1	-0.491668226	3.21E-24	negative

ULK2	AC109587.1	0.401566278	5.80E-16	postive
ATG16L2	AL365361.1	0.487319807	9.21E-24	postive
BCL2	AL365361.1	0.65868187	5.20E-48	postive
CCR2	AL365361.1	0.617450419	8.74E-41	postive
CFLAR	AL365361.1	0.51976107	2.45E-27	postive
CXCR4	AL365361.1	0.625851694	3.60E-42	postive
ITPR1	AL365361.1	0.4746711	1.81E-22	postive
MAP1LC3	AL365361.1	0.439392404	3.92E-19	postive
PRKCQ	AL365361.1	0.403677092	3.95E-16	postive
DLC1	PART1	0.523997178	7.84E-28	postive
GABARAP	PART1	0.419825245	1.92E-17	postive
HSPB8	PART1	0.864031695	3.20E-113	postive
ITPR1	PART1	0.474664743	1.81E-22	postive
NRG2	PART1	0.438112937	5.10E-19	postive
ULK2	PART1	0.418094769	2.67E-17	postive
CDKN2A	LINC01273	0.406328752	2.43E-16	postive
DLC1	SPINT1-AS1	-0.420430478	1.71E-17	negative
ITPR1	SPINT1-AS1	-0.456627773	1.03E-20	negative
HSPA8	AC015849.4	-0.420546833	1.67E-17	negative
ATG16L2	AC116914.2	0.440413979	3.18E-19	postive
ATG16L2	AC018607.1	0.477796806	8.77E-23	postive
CFLAR	AC018607.1	0.416207716	3.83E-17	postive
CXCR4	AC018607.1	0.419212699	2.16E-17	postive
BCL2	AC018529.1	0.427061392	4.69E-18	postive
ARSB	AL357054.4	0.43451583	1.06E-18	postive
BCL2	AL357054.4	0.486510164	1.12E-23	postive
DLC1	AL357054.4	0.576254719	1.46E-34	postive
HSPA5	AL357054.4	-0.403167219	4.33E-16	negative
HSPB8	AL357054.4	0.736415236	2.78E-65	postive
ITPR1	AL357054.4	0.590336915	1.37E-36	postive
NRG2	AL357054.4	0.428584904	3.47E-18	postive
PEA15	AL357054.4	0.432622405	1.55E-18	postive
ULK2	AL357054.4	0.43945413	3.87E-19	postive
HSPB8	AL023803.2	0.608621493	2.25E-39	postive
CXCR4	AL133342.1	0.408126896	1.74E-16	postive
MAP1LC3	LINC01635	0.481673256	3.53E-23	postive
BCL2L1	ABALON	0.573853368	3.17E-34	postive
RGS19	ERICD	0.481658928	3.55E-23	postive
ATG16L2	AC025287.3	0.559880981	2.53E-32	postive
ATG2B	AC025287.3	0.478333832	7.74E-23	postive
BIRC6	AC025287.3	0.411330774	9.61E-17	postive
CFLAR	AC025287.3	0.400204861	7.41E-16	postive
IKBKB	AC025287.3	0.425803133	6.00E-18	postive
TSC1	AC025287.3	0.452439813	2.54E-20	postive

CXCR4	PSMB8-AS1	0.406381098	2.41E-16	postive
DAPK2	AC015914.1	0.693329616	4.99E-55	postive
MAP1LC3	AC091180.5	0.40844213	1.65E-16	postive
RHEB	MXN1-AS1	0.406932341	2.18E-16	postive
ATG16L2	AP000766.1	0.442386715	2.11E-19	postive
BAK1	AP000766.1	-0.415336755	4.52E-17	negative
BCL2	AP000766.1	0.450828727	3.58E-20	postive
GAPDH	AP000766.1	-0.401432251	5.94E-16	negative
P4HB	AP000766.1	-0.45227225	2.63E-20	negative
UVRAG	AP000766.1	0.426923166	4.82E-18	postive
MAPK1	AC000068.1	0.419294264	2.12E-17	postive
ARSB	RAP2C-AS1	0.497891426	6.94E-25	postive
ATIC	RAP2C-AS1	-0.40963423	1.32E-16	negative
BCL2	RAP2C-AS1	0.514992838	8.70E-27	postive
DLC1	RAP2C-AS1	0.633541881	1.79E-43	postive
GABARAP	RAP2C-AS1	0.464546357	1.80E-21	postive
HSPB8	RAP2C-AS1	0.725081354	2.14E-62	postive
ITGB1	RAP2C-AS1	0.433278752	1.36E-18	postive
ITPR1	RAP2C-AS1	0.676202591	1.94E-51	postive
NRG2	RAP2C-AS1	0.490735715	4.03E-24	postive
PEA15	RAP2C-AS1	0.415410001	4.46E-17	postive
PINK1	RAP2C-AS1	0.403863135	3.82E-16	postive
ULK2	RAP2C-AS1	0.559578952	2.77E-32	postive
ATG16L2	AC021739.3	0.402874067	4.57E-16	postive
CFLAR	AC021739.3	0.40152866	5.84E-16	postive
DAPK1	DIP2C-AS1	0.41091101	1.04E-16	postive
MAP1LC3	AC008115.4	0.452593268	2.46E-20	postive
DLC1	AP001107.5	0.655308587	2.24E-47	postive
GABARAP	AP001107.5	0.488543127	6.86E-24	postive
HDAC1	AP001107.5	-0.411797969	8.81E-17	negative
HSPA5	AP001107.5	-0.406041711	2.56E-16	negative
HSPB8	AP001107.5	0.906860875	4.79E-142	postive
ITPR1	AP001107.5	0.605763146	6.31E-39	postive
NRG2	AP001107.5	0.503415583	1.73E-25	postive
PEA15	AP001107.5	0.472731648	2.83E-22	postive
ULK2	AP001107.5	0.514557067	9.76E-27	postive
ATG16L2	AC005674.1	0.553459391	1.76E-31	postive
CFLAR	AC005674.1	0.410136254	1.20E-16	postive
IKBKB	AC005674.1	0.458799918	6.40E-21	postive
TSC1	AC005674.1	0.40684197	2.21E-16	postive
ARSB	Z99289.1	0.412606003	7.57E-17	postive
ATIC	Z99289.1	-0.406247226	2.47E-16	negative
BCL2	Z99289.1	0.435245626	9.14E-19	postive
BIRC5	Z99289.1	-0.423400001	9.60E-18	negative

DLC1	Z99289.1	0.635301212	8.87E-44	postive
GAPDH	Z99289.1	-0.41334331	6.59E-17	negative
HDAC1	Z99289.1	-0.402207766	5.16E-16	negative
HSPB8	Z99289.1	0.580436254	3.75E-35	postive
ITGB1	Z99289.1	0.454067413	1.79E-20	postive
ITPR1	Z99289.1	0.59628043	1.79E-37	postive
P4HB	Z99289.1	-0.433584208	1.28E-18	negative
ULK2	Z99289.1	0.487319371	9.21E-24	postive
WIPI2	RNF216P1	0.606375733	5.06E-39	postive
LAMP1	AL356740.1	0.42089417	1.56E-17	postive
CCR2	LINC02528	0.477045273	1.04E-22	postive
CX3CL1	LINC02528	0.466432441	1.18E-21	postive
IFNG	LINC02528	0.634484451	1.23E-43	postive
NLRC4	LINC02528	0.53944711	1.06E-29	postive
TNFSF10	LINC02528	0.422694597	1.10E-17	postive
FOXO3	AL390208.1	0.478098682	8.17E-23	postive
PINK1	AC079907.1	-0.451753113	2.94E-20	negative
ARSB	AC090559.1	0.536398122	2.53E-29	postive
BCL2	AC090559.1	0.441579002	2.50E-19	postive
CCR2	AC090559.1	0.640437175	1.12E-44	postive
CXCR4	AC090559.1	0.463904889	2.07E-21	postive
ITPR1	AC090559.1	0.489260206	5.77E-24	postive
NLRC4	AC090559.1	0.618775808	5.32E-41	postive
PEA15	AC090559.1	0.44413356	1.47E-19	postive
ATG16L2	AC118344.1	0.464613779	1.77E-21	postive
ATG16L2	AC012557.1	0.400562792	6.95E-16	postive
ATG2B	AC012557.1	0.450838845	3.58E-20	postive
MLST8	AC012557.1	-0.424055813	8.45E-18	negative
TBK1	AC005034.3	0.422652725	1.11E-17	postive
BCL2	MIATNB	0.445519504	1.10E-19	postive
CXCR4	MIATNB	0.420476557	1.69E-17	postive
FOXO3	NORAD	0.462602433	2.77E-21	postive
KLHL24	NORAD	0.510629303	2.72E-26	postive
RB1CC1	NORAD	0.464648797	1.76E-21	postive
TP63	AC103563.2	0.40606558	2.55E-16	postive
ATG16L2	AL157392.3	0.564639222	5.82E-33	postive
ATG2B	AL157392.3	0.475883154	1.37E-22	postive
BAK1	AL157392.3	-0.417356501	3.08E-17	negative
GAPDH	AL157392.3	-0.407951337	1.80E-16	negative
IKBKB	AL157392.3	0.437233975	6.10E-19	postive
MLST8	AL157392.3	-0.405543722	2.81E-16	negative
TSC1	AL157392.3	0.517687437	4.26E-27	postive
PRKCQ	DBH-AS1	0.446349813	9.25E-20	postive
DLC1	AC011472.1	0.435489978	8.70E-19	postive

GAPDH	AC011472.1	-0.404800796	3.22E-16	negative
HSPB8	AC011472.1	0.650139942	2.02E-46	postive
ITPR1	AC011472.1	0.463458224	2.29E-21	postive
P4HB	AC011472.1	-0.442000571	2.29E-19	negative
ULK2	AC011472.1	0.427638213	4.18E-18	postive
ARSB	AP001528.1	0.505353189	1.06E-25	postive
ATIC	AP001528.1	-0.41565772	4.25E-17	negative
BCL2	AP001528.1	0.545537704	1.83E-30	postive
BIRC5	AP001528.1	-0.405347059	2.91E-16	negative
DLC1	AP001528.1	0.705917404	7.86E-58	postive
HSPB8	AP001528.1	0.436054052	7.76E-19	postive
ITPR1	AP001528.1	0.704045787	2.10E-57	postive
MAP1LC3	AP001528.1	0.448517257	5.85E-20	postive
PEA15	AP001528.1	0.402597467	4.81E-16	postive
ULK2	AP001528.1	0.449402547	4.85E-20	postive
ZFYVE1	AP001528.1	0.417872288	2.79E-17	postive
ATG16L2	AC254562.3	0.428958946	3.22E-18	postive
TSC2	AC254562.3	0.414397224	5.40E-17	postive
ATG16L2	AC008937.2	0.512779237	1.55E-26	postive
BCL2	AC008937.2	0.420923919	1.55E-17	postive
CFLAR	AC008937.2	0.400725466	6.75E-16	postive
CXCR4	AC008937.2	0.406431763	2.39E-16	postive
DLC1	AC015922.2	0.400578602	6.93E-16	postive
ARSB	SETBP1-DT	0.448551605	5.81E-20	postive
ATIC	SETBP1-DT	-0.421362351	1.43E-17	negative
BCL2	SETBP1-DT	0.607578702	3.28E-39	postive
BIRC5	SETBP1-DT	-0.445595512	1.08E-19	negative
DLC1	SETBP1-DT	0.589385349	1.90E-36	postive
GABARAP	SETBP1-DT	0.446847379	8.33E-20	postive
HSPA5	SETBP1-DT	-0.459455283	5.55E-21	negative
HSPB8	SETBP1-DT	0.592324201	6.98E-37	postive
ITPR1	SETBP1-DT	0.696960769	8.03E-56	postive
MAP1LC3	SETBP1-DT	0.420255624	1.77E-17	postive
NRG2	SETBP1-DT	0.435661929	8.40E-19	postive
PEA15	SETBP1-DT	0.450065179	4.22E-20	postive
ULK2	SETBP1-DT	0.426666721	5.07E-18	postive
WIPI2	AL118506.1	0.41068187	1.09E-16	postive
ATG16L2	AL049780.1	0.411429938	9.44E-17	postive
ATG2B	AL049780.1	0.410896314	1.04E-16	postive
TSC1	AL049780.1	0.449719593	4.54E-20	postive
BCL2	EML4-AS1	0.534679758	4.10E-29	postive
CCR2	EML4-AS1	0.5342931	4.57E-29	postive
CXCR4	EML4-AS1	0.545856713	1.67E-30	postive
IFNG	EML4-AS1	0.471397822	3.83E-22	postive

MAP1LC3	EML4-AS1	0.40809775	1.75E-16	postive
NLRC4	EML4-AS1	0.487708033	8.39E-24	postive
PRKCQ	EML4-AS1	0.434882566	9.83E-19	postive
TSC1	AC087222.1	0.401988576	5.37E-16	postive
GAPDH	AL133245.1	-0.401256795	6.13E-16	negative
ATG16L2	RUFY1-AS1	0.508851111	4.31E-26	postive
BCL2	RUFY1-AS1	0.424469146	7.80E-18	postive
CFLAR	RUFY1-AS1	0.437555711	5.71E-19	postive
GAPDH	RUFY1-AS1	-0.416019994	3.97E-17	negative
ITPR1	RUFY1-AS1	0.486934504	1.01E-23	postive
P4HB	RUFY1-AS1	-0.423446618	9.52E-18	negative
CDKN2A	RAB30-DT	0.412536723	7.67E-17	postive
GAPDH	AC067852.3	-0.441066819	2.78E-19	negative
ATG16L2	AC010186.3	0.507508253	6.09E-26	postive
BCL2	AC010186.3	0.615813439	1.61E-40	postive
CFLAR	AC010186.3	0.484460013	1.83E-23	postive
CXCR4	AC010186.3	0.538232016	1.50E-29	postive
ITPR1	AC010186.3	0.420295045	1.75E-17	postive
RGS19	AC010186.3	0.415887351	4.07E-17	postive
UVRAG	AC010186.3	0.419953541	1.87E-17	postive
ATG16L2	AL662844.3	0.437256307	6.07E-19	postive
CFLAR	AL662844.3	0.402729493	4.69E-16	postive
ITPR1	CKMT2-AS1	0.400896369	6.54E-16	postive
MAP1LC3	AC104170.1	0.465223178	1.55E-21	postive
CASP8	AC091057.1	0.409563053	1.34E-16	postive
ATG16L2	AP4B1-AS1	0.600157541	4.61E-38	postive
BIRC6	AP4B1-AS1	0.415121129	4.71E-17	postive
CFLAR	AP4B1-AS1	0.430651891	2.30E-18	postive
IKBKB	AP4B1-AS1	0.43352723	1.29E-18	postive
TSC1	AP4B1-AS1	0.410092054	1.21E-16	postive
CHMP4B	ELF3-AS1	0.443774626	1.58E-19	postive
PIK3C3	LINC00909	0.447486574	7.28E-20	postive
DLC1	A2M-AS1	0.587180742	3.99E-36	postive
GABARAP	A2M-AS1	0.509635629	3.52E-26	postive
HDAC1	A2M-AS1	-0.42567658	6.16E-18	negative
HSPB8	A2M-AS1	0.740589806	2.21E-66	postive
ITPR1	A2M-AS1	0.541248988	6.34E-30	postive
NRG2	A2M-AS1	0.50465476	1.26E-25	postive
PEA15	A2M-AS1	0.413012158	7.01E-17	postive
ULK2	A2M-AS1	0.529740818	1.63E-28	postive
FADD	AP002784.1	0.419392133	2.09E-17	postive
MAP2K7	AP002784.1	0.563598014	8.05E-33	postive
MAPK8IP1	AP002784.1	0.671187155	1.96E-50	postive
PEX3	AP002784.1	0.629963382	7.30E-43	postive

TSC1	AC015813.1	0.417714103	2.88E-17	postive
BCL2	OIP5-AS1	0.525432301	5.30E-28	postive
ITPR1	OIP5-AS1	0.426966879	4.78E-18	postive
PTEN	OIP5-AS1	0.402454497	4.93E-16	postive
ULK2	OIP5-AS1	0.432924084	1.46E-18	postive
BIRC6	Z68871.1	0.439593451	3.76E-19	postive
GOPC	Z68871.1	0.401207999	6.18E-16	postive
HDAC6	Z68871.1	0.409119305	1.45E-16	postive
RB1CC1	Z68871.1	0.401438293	5.93E-16	postive
TSC1	Z68871.1	0.437161171	6.19E-19	postive
GOPC	AC008735.2	0.407478058	1.97E-16	postive
TSC1	AC008735.2	0.430175721	2.53E-18	postive
ATG16L2	AC007728.2	0.528405479	2.35E-28	postive
BCL2	AC007728.2	0.616013478	1.49E-40	postive
CCR2	AC007728.2	0.565986595	3.83E-33	postive
CFLAR	AC007728.2	0.524986411	5.99E-28	postive
CXCR4	AC007728.2	0.563099817	9.39E-33	postive
ITPR1	AC007728.2	0.441600764	2.49E-19	postive
NLRC4	AC007728.2	0.405761629	2.70E-16	postive
PRKCQ	AC007728.2	0.451955324	2.82E-20	postive
ATG16L2	AL031714.1	0.462563952	2.79E-21	postive
TSC1	AL031714.1	0.436165001	7.58E-19	postive
TSC2	AL031714.1	0.427373392	4.41E-18	postive
ATG16L2	AC004492.1	0.51146698	2.19E-26	postive
ATG2B	AC004492.1	0.452134772	2.71E-20	postive
GRID1	AC245297.3	0.484600617	1.77E-23	postive
DDIT3	AP005233.2	0.573138162	3.99E-34	postive
ATG16L2	AL512306.3	0.421214329	1.47E-17	postive
CFLAR	AL512306.3	0.401084663	6.32E-16	postive
ATIC	EMSLR	0.470612286	4.59E-22	postive
EIF2S1	EMSLR	0.407567084	1.93E-16	postive
MYC	EMSLR	0.588354761	2.69E-36	postive
ATG16L2	AL135999.1	0.620528894	2.75E-41	postive
ATG2B	AL135999.1	0.434520419	1.06E-18	postive
IKBKB	AL135999.1	0.407611766	1.92E-16	postive
TSC1	AL135999.1	0.476621516	1.15E-22	postive
ATG16L2	AC020907.4	0.402886677	4.56E-16	postive
CTSD	PELATON	0.503527214	1.68E-25	postive
NLRC4	PELATON	0.478375623	7.66E-23	postive
ATG16L2	AC007878.1	0.570306575	9.83E-34	postive
ATG2B	AC007878.1	0.475141099	1.62E-22	postive
BIRC6	AC007878.1	0.421719069	1.33E-17	postive
CFLAR	AC007878.1	0.46345696	2.29E-21	postive
IKBKB	AC007878.1	0.43893418	4.31E-19	postive

TSC1	AC007878.1	0.415890317	4.07E-17	postive
CHMP2B	AC022509.3	0.400299855	7.29E-16	postive
NCKAP1	AC022509.3	0.445021629	1.22E-19	postive
DLC1	AL356417.2	0.405029238	3.09E-16	postive
PEA15	AL356417.2	0.437649408	5.60E-19	postive
BCL2	NR2F2-AS1	0.455152483	1.42E-20	postive
DLC1	NR2F2-AS1	0.481349698	3.81E-23	postive
GABARAP	NR2F2-AS1	0.472107521	3.26E-22	postive
HSPB8	NR2F2-AS1	0.470900723	4.29E-22	postive
ITPR1	NR2F2-AS1	0.600370437	4.28E-38	postive
NRG2	NR2F2-AS1	0.427323953	4.45E-18	postive
ULK2	NR2F2-AS1	0.417820737	2.82E-17	postive
ATG16L2	AC027514.2	0.477577314	9.23E-23	postive
IKBKB	AC027514.2	0.415291788	4.56E-17	postive
ATG16L2	MATN1-AS1	0.454074144	1.79E-20	postive
PTK6	AL451042.2	0.404060783	3.68E-16	postive
BCL2	AC099524.1	0.45622163	1.12E-20	postive
CXCR4	AC099524.1	0.430652325	2.30E-18	postive
PARP1	AC099524.1	0.495421064	1.28E-24	postive
RGS19	AC099524.1	0.697848005	5.12E-56	postive
ATG16L2	LINC00893	0.474081181	2.07E-22	postive
MAP1LC3	AC100810.1	0.413640705	6.23E-17	postive
BCL2	LINC00924	0.477318663	9.80E-23	postive
DLC1	LINC00924	0.575396522	1.93E-34	postive
ITPR1	LINC00924	0.52405149	7.72E-28	postive
MAP1LC3	LINC00924	0.43792713	5.30E-19	postive
PEA15	LINC00924	0.451103948	3.38E-20	postive
BCL2	AC011450.1	0.430516612	2.36E-18	postive
ITPR1	AC011450.1	0.402446672	4.94E-16	postive
ATG16L2	AC004908.1	0.449974581	4.30E-20	postive
IKBKB	AC004908.1	0.489281558	5.74E-24	postive
TSC1	AC004908.1	0.453229404	2.14E-20	postive
TP63	AC004816.1	0.475502839	1.49E-22	postive
ATG16L2	AC011465.1	0.408197595	1.72E-16	postive
BIRC6	AC007114.2	0.436127296	7.64E-19	postive
GRID1	GAS5	0.434161601	1.14E-18	postive
BECN1	AC067852.2	0.467511834	9.25E-22	postive
HGS	AC067852.2	0.437716794	5.53E-19	postive
MLST8	AC067852.2	0.462869628	2.61E-21	postive
RELA	AC067852.2	0.410506129	1.12E-16	postive
SPNS1	AC067852.2	0.470667194	4.53E-22	postive
DLC1	FGF14-AS2	0.435315761	9.01E-19	postive
GABARAP	FGF14-AS2	0.469238178	6.26E-22	postive
GRID1	FGF14-AS2	0.416462351	3.65E-17	postive

HSPB8	FGF14-AS2	0.593581923	4.53E-37	postive
ITPR1	FGF14-AS2	0.428132413	3.79E-18	postive
NRG2	FGF14-AS2	0.424683629	7.48E-18	postive
ULK2	FGF14-AS2	0.412917576	7.14E-17	postive
ATG16L2	AC037459.2	0.433612589	1.27E-18	postive
IKBKB	AC037459.2	0.604158899	1.12E-38	postive
BECN1	AP003352.1	-0.402875195	4.57E-16	negative
HSPB8	AP003059.1	0.411894206	8.65E-17	postive
HDAC6	ZNF674-AS1	0.420605314	1.65E-17	postive
WDR45	ZNF674-AS1	0.432626853	1.55E-18	postive
ATG16L2	AC232271.1	0.450913148	3.52E-20	postive
TSC1	AC232271.1	0.450056441	4.22E-20	postive
DLC1	AC037198.1	0.581508811	2.63E-35	postive
GABARAP	AC037198.1	0.436454462	7.15E-19	postive
DDIT3	AC121761.1	0.578545952	6.95E-35	postive
MAP2K7	LINC00957	0.493843107	1.89E-24	postive
MAPK8IP1	LINC00957	0.512631427	1.62E-26	postive
GABARAP	AC087477.2	0.529397233	1.79E-28	postive
ITGA3	MIR31HG	0.463334033	2.36E-21	postive
ATG16L2	AP005131.3	0.412636681	7.53E-17	postive
TSC1	AC007066.2	0.53996977	9.15E-30	postive
HIF1A	AC112496.1	0.421859119	1.30E-17	postive
IL24	AC112496.1	0.666891526	1.37E-49	postive
NAMPT	AC112496.1	0.478520952	7.41E-23	postive
BIRC5	AC007637.1	-0.431217148	2.05E-18	negative
DLC1	AC007637.1	0.412708604	7.42E-17	postive
GAPDH	AC007637.1	-0.400510173	7.01E-16	negative
ITPR1	AC007637.1	0.463986524	2.04E-21	postive
MAP1LC3	GTF3C2-AS1	0.482443276	2.95E-23	postive
SQSTM1	LINC01137	0.426358339	5.38E-18	postive
MAP1LC3	UBXN7-AS1	0.578607045	6.81E-35	postive
ATG16L2	AC089999.2	0.434998086	9.61E-19	postive
FKBP1A	AL117332.1	0.447114548	7.87E-20	postive
ATG16L2	HCG27	0.441338575	2.63E-19	postive
CFLAR	HCG27	0.413967192	5.86E-17	postive
ATG16L2	AC016747.3	0.434639578	1.03E-18	postive
GAPDH	AC016747.3	-0.409280627	1.41E-16	negative
ATG16L2	SEMA3F-AS1	0.645101727	1.66E-45	postive
ATG2B	SEMA3F-AS1	0.452617253	2.44E-20	postive
CFLAR	SEMA3F-AS1	0.403331882	4.21E-16	postive
GAPDH	SEMA3F-AS1	-0.40644453	2.38E-16	negative
IKBKB	SEMA3F-AS1	0.497793737	7.11E-25	postive
MLST8	SEMA3F-AS1	-0.413829256	6.01E-17	negative
TSC1	SEMA3F-AS1	0.455292626	1.37E-20	postive

HSPB8	AC120498.10	0.473664343	2.28E-22	postive
RGS19	AC023510.2	0.412710682	7.42E-17	postive
BCL2	AL662844.4	0.452590866	2.46E-20	postive
CXCR4	AL662844.4	0.410717718	1.08E-16	postive
ITPR1	AL662844.4	0.432360504	1.63E-18	postive
MAP1LC3	AC017104.2	0.444103511	1.48E-19	postive
CCR2	LINC01094	0.470975951	4.22E-22	postive
DRAM1	LINC01094	0.434875477	9.85E-19	postive
NLRC4	LINC01094	0.655406572	2.14E-47	postive
ATG4B	LINC02604	0.408975567	1.49E-16	postive
ARSB	AC104117.3	0.502719833	2.07E-25	postive
ATIC	AC104117.3	-0.40356723	4.03E-16	negative
BCL2	AC104117.3	0.45529308	1.37E-20	postive
DLC1	AC104117.3	0.646217975	1.04E-45	postive
GABARAP	AC104117.3	0.500058166	4.04E-25	postive
GRID1	AC104117.3	0.422308778	1.19E-17	postive
HDAC1	AC104117.3	-0.412585493	7.60E-17	negative
HSPB8	AC104117.3	0.57983162	4.57E-35	postive
ITPR1	AC104117.3	0.640389829	1.14E-44	postive
ULK2	AC104117.3	0.506690655	7.52E-26	postive
ZFYVE1	AC104117.3	0.483914316	2.08E-23	postive
ATG16L2	INE1	0.52693298	3.52E-28	postive
IKBKB	INE1	0.440023741	3.45E-19	postive
BAG3	PLAC4	0.51840966	3.52E-27	postive
DNAJB1	PLAC4	0.403052796	4.43E-16	postive
ATG16L2	AC011477.1	0.456504933	1.06E-20	postive
BCL2	AC011477.1	0.453831982	1.88E-20	postive
CFLAR	AC011477.1	0.418430038	2.51E-17	postive
ATG16L2	AC079921.1	0.421120969	1.49E-17	postive
BCL2	AC079921.1	0.490227239	4.56E-24	postive
CFLAR	AC079921.1	0.456692689	1.01E-20	postive
DLC1	AC079921.1	0.449767759	4.49E-20	postive
ITPR1	AC079921.1	0.522029915	1.33E-27	postive
ATG16L2	AC009686.1	0.453324154	2.10E-20	postive
ATG16L2	AC098851.1	0.456516673	1.05E-20	postive
ATG16L2	AC067945.2	0.497133325	8.37E-25	postive
BCL2	AC067945.2	0.406866782	2.20E-16	postive
CCR2	AC067945.2	0.447703684	6.95E-20	postive
CFLAR	AC067945.2	0.472024485	3.32E-22	postive
CXCR4	AC067945.2	0.479073923	6.51E-23	postive
NLRC4	AC067945.2	0.433693674	1.25E-18	postive
ATG5	IRAIN	0.498484831	5.98E-25	postive
MAP1LC3	AC020911.1	0.411304559	9.66E-17	postive
TP63	MIR205HG	0.719856702	4.10E-61	postive

PINK1	AC024060.2	-0.463629681	2.21E-21	negative
MAP1LC3	AC009107.2	0.41238001	7.90E-17	postive
DLC1	DNAH10OS	0.409726611	1.30E-16	postive
HSPB8	DNAH10OS	0.496446359	9.93E-25	postive
ITPR1	DNAH10OS	0.432094379	1.72E-18	postive
ULK2	DNAH10OS	0.442170751	2.21E-19	postive
CASP4	LINC02363	0.401185647	6.21E-16	postive
ITPR1	AC092718.3	-0.425596712	6.25E-18	negative
ULK2	AC092718.3	-0.406902718	2.19E-16	negative
WDFY3	AC092718.3	-0.416474678	3.64E-17	negative
ZFYVE1	AC092718.3	-0.449924092	4.34E-20	negative
BCL2	IFNG-AS1	0.475429836	1.52E-22	postive
CXCR4	IFNG-AS1	0.542194842	4.83E-30	postive
ATG16L2	RASSF1-AS1	0.527639383	2.90E-28	postive
BCL2	RASSF1-AS1	0.401139156	6.26E-16	postive
LAMP1	AL139384.1	0.526846728	3.60E-28	postive
ATG16L2	AL133371.2	0.486145951	1.22E-23	postive
BCL2	AL133371.2	0.644710531	1.95E-45	postive
CCR2	AL133371.2	0.438489327	4.72E-19	postive
CFLAR	AL133371.2	0.404630022	3.32E-16	postive
CXCR4	AL133371.2	0.66527819	2.83E-49	postive
ITPR1	AL133371.2	0.535736009	3.05E-29	postive
MAP1LC3	AL133371.2	0.461022479	3.93E-21	postive
ATG16L2	AL008582.1	0.465000375	1.63E-21	postive
BCL2	AL008582.1	0.427541168	4.26E-18	postive
DLC1	MBNL1-AS1	0.617090148	1.00E-40	postive
HSPB8	MBNL1-AS1	0.844977166	2.02E-103	postive
ITGB1	MBNL1-AS1	0.517287097	4.74E-27	postive
ITPR1	MBNL1-AS1	0.541830206	5.36E-30	postive
NRG2	MBNL1-AS1	0.402029494	5.33E-16	postive
PEA15	MBNL1-AS1	0.442039598	2.27E-19	postive
ULK2	MBNL1-AS1	0.481199045	3.95E-23	postive
CAPN1	AC016888.1	0.433127164	1.40E-18	postive
HGS	AC016888.1	0.430678606	2.29E-18	postive
MAPK3	AC016888.1	0.408067171	1.76E-16	postive
KLHL24	PAXBP1-AS1	0.406717421	2.26E-16	postive
MAPK8IP1	PAXBP1-AS1	0.447773671	6.85E-20	postive
ARSB	MIR100HG	0.460757277	4.17E-21	postive
BCL2	MIR100HG	0.444463365	1.37E-19	postive
BIRC5	MIR100HG	-0.427624359	4.20E-18	negative
DLC1	MIR100HG	0.688140596	6.48E-54	postive
GABARAP	MIR100HG	0.564757424	5.61E-33	postive
HDAC1	MIR100HG	-0.420276554	1.76E-17	negative
HSPA5	MIR100HG	-0.434385383	1.09E-18	negative

HSPB8	MIR100HG	0.779156557	1.15E-77	postive
ITGB1	MIR100HG	0.467448833	9.38E-22	postive
ITPR1	MIR100HG	0.666376084	1.73E-49	postive
NRG2	MIR100HG	0.438271355	4.94E-19	postive
P4HB	MIR100HG	-0.408030445	1.78E-16	negative
PEA15	MIR100HG	0.519336175	2.75E-27	postive
ULK2	MIR100HG	0.539741492	9.77E-30	postive
NLRC4	MMP2-AS1	0.440273742	3.27E-19	postive
ATG16L2	AC027097.1	0.436563059	6.99E-19	postive
BCL2	AC027097.1	0.474611184	1.83E-22	postive
CXCR4	AC027097.1	0.463815191	2.12E-21	postive
ARSB	LINC02593	0.466174108	1.25E-21	postive
DLC1	LINC02593	0.430556539	2.34E-18	postive
ITPR1	LINC02593	0.513511235	1.28E-26	postive
ATG16L2	AC090739.1	0.471348999	3.88E-22	postive
IKBKB	AC090739.1	0.574318768	2.73E-34	postive
GRID1	AC092794.2	0.420751498	1.61E-17	postive
MAP1LC3	LINC02611	0.621913745	1.63E-41	postive
NLRC4	LINC02611	0.576245171	1.47E-34	postive
PARP1	AC010247.1	0.64048695	1.10E-44	postive
RGS19	AC010247.1	0.796484802	1.65E-83	postive
KLHL24	EBLN3P	0.459100662	5.99E-21	postive
PIK3C3	EBLN3P	0.402439679	4.95E-16	postive
TSC1	EBLN3P	0.422262563	1.20E-17	postive
ARSB	AL122035.1	0.546748259	1.29E-30	postive
BCL2	AL122035.1	0.564300681	6.47E-33	postive
DLC1	AL122035.1	0.62410197	7.06E-42	postive
GABARAP	AL122035.1	0.420469979	1.69E-17	postive
HSPB8	AL122035.1	0.534873708	3.88E-29	postive
ITPR1	AL122035.1	0.700126949	1.60E-56	postive
NRG2	AL122035.1	0.431547057	1.92E-18	postive
ULK2	AL122035.1	0.510076551	3.14E-26	postive
ZFYVE1	AL122035.1	0.425432356	6.46E-18	postive
CASP4	LINC01871	0.465411111	1.48E-21	postive
CX3CL1	LINC01871	0.486042627	1.25E-23	postive
IFNG	LINC01871	0.621149566	2.17E-41	postive
TNFSF10	LINC01871	0.411353084	9.57E-17	postive
ATG16L2	AL355076.2	0.503402074	1.74E-25	postive
BCL2	AL355076.2	0.564646033	5.81E-33	postive
CXCR4	AL355076.2	0.498962175	5.31E-25	postive
MAP1LC3	AL355076.2	0.505195273	1.10E-25	postive
ATG16L2	LINC00921	0.493464716	2.07E-24	postive
BCL2	LINC00921	0.599667414	5.48E-38	postive
BIRC5	LINC00921	-0.40198357	5.37E-16	negative

CFLAR	LINC00921	0.452444424	2.54E-20	postive
CXCR4	LINC00921	0.413566238	6.32E-17	postive
ITPR1	LINC00921	0.543902481	2.95E-30	postive
TSC2	LINC00921	0.44382482	1.57E-19	postive
DLC1	COL4A2-AS1	0.558069103	4.39E-32	postive
HSPB8	COL4A2-AS1	0.522013292	1.34E-27	postive
ITPR1	COL4A2-AS1	0.513272113	1.37E-26	postive
P4HB	AL583856.2	-0.417190899	3.18E-17	negative
IL24	PEF1-AS1	0.433857929	1.21E-18	postive
ATG16L2	AC087500.2	0.459362067	5.66E-21	postive
ATG16L2	ZNF213-AS1	0.403114627	4.38E-16	postive
ATG16L2	AC015849.3	0.44103807	2.80E-19	postive
ATG9A	MAFG-DT	0.412979707	7.06E-17	postive
BIRC5	MAFG-DT	0.456984637	9.52E-21	postive
GAA	MAFG-DT	0.410823676	1.06E-16	postive
HGS	MAFG-DT	0.428249545	3.71E-18	postive
MTOR	Z98884.2	0.417639959	2.92E-17	postive
TSC1	Z98884.2	0.400049683	7.62E-16	postive
BIRC6	AC053513.2	0.403401193	4.15E-16	postive
CFLAR	AC053513.2	0.407576233	1.93E-16	postive
ARSB	LINC01150	0.405782068	2.69E-16	postive
CCR2	LINC01150	0.434116185	1.15E-18	postive
MAP1LC3	LINC01150	0.484437304	1.84E-23	postive
NLRC4	LINC01150	0.562370098	1.18E-32	postive
PEA15	LINC01150	0.416475344	3.64E-17	postive
ATG16L2	AL021707.1	0.493653761	1.98E-24	postive
HDAC6	LINC00630	0.41558407	4.31E-17	postive
LAMP2	LINC00630	0.402256029	5.12E-16	postive
MBTPS2	LINC00630	0.453243033	2.14E-20	postive
PIK3R4	LINC00630	0.406266063	2.46E-16	postive
BCL2	AC246787.2	0.465850683	1.34E-21	postive
CCR2	AC246787.2	0.444335667	1.41E-19	postive
CXCR4	AC246787.2	0.573108388	4.03E-34	postive
ATG16L2	AC021188.1	0.40273403	4.69E-16	postive
BCL2	AC021188.1	0.518238685	3.68E-27	postive
CCR2	AC021188.1	0.462239307	3.00E-21	postive
CFLAR	AC021188.1	0.438535084	4.68E-19	postive
CXCR4	AC021188.1	0.454331018	1.69E-20	postive
MAP1LC3	AC021188.1	0.439813849	3.60E-19	postive
NLRC4	AC021188.1	0.430451667	2.39E-18	postive
PRKCQ	AC021188.1	0.477136933	1.02E-22	postive
ATG16L2	AC009152.1	0.411219933	9.81E-17	postive
IL24	AC009152.1	0.415351303	4.51E-17	postive
P4HB	LRIG2-DT	-0.423349335	9.70E-18	negative

PEX3	DLEU1	0.430649875	2.30E-18	postive
BCL2	AC018521.6	0.473969494	2.13E-22	postive
DLC1	AC018521.6	0.468369194	7.63E-22	postive
HSPB8	AC018521.6	0.491752955	3.15E-24	postive
ITPR1	AC018521.6	0.555548877	9.42E-32	postive
ULK2	AC018521.6	0.4286784	3.41E-18	postive
ZFYVE1	AC018521.6	0.401163546	6.23E-16	postive
PTK6	AC108134.1	0.40129572	6.09E-16	postive
ATG16L2	AP005131.2	0.445731217	1.05E-19	postive
BCL2	AP005131.2	0.460246268	4.66E-21	postive
ITPR1	AP005131.2	0.411588194	9.16E-17	postive
ATG16L2	AL353622.1	0.4139839	5.84E-17	postive
ATG16L2	AL049840.6	0.575540622	1.84E-34	postive
ATG2B	AL049840.6	0.508984273	4.17E-26	postive
BCL2	AL049840.6	0.468489972	7.42E-22	postive
CFLAR	AL049840.6	0.49668199	9.37E-25	postive
DLC1	AL049840.6	0.420236639	1.77E-17	postive
GAPDH	AL049840.6	-0.401494344	5.87E-16	negative
IKBKB	AL049840.6	0.421843823	1.30E-17	postive
ITPR1	AL049840.6	0.538303641	1.47E-29	postive
ULK2	AL049840.6	0.404239744	3.56E-16	postive
ITPR1	AC104667.2	-0.435766431	8.22E-19	negative
ATG16L2	AL033397.2	0.400946714	6.48E-16	postive
BECN1	AC067838.1	-0.401972714	5.38E-16	negative
BCL2	AC008957.1	0.561344633	1.61E-32	postive
CCR2	AC008957.1	0.41863979	2.41E-17	postive
CXCR4	AC008957.1	0.558625243	3.71E-32	postive
MAP1LC3	AC008957.1	0.416897659	3.36E-17	postive
ATG16L2	AC007546.1	0.464767331	1.71E-21	postive
MAP1LC3	AC007546.1	0.480118909	5.09E-23	postive
TSC1	UBE2Q1-AS1	0.470779764	4.41E-22	postive
ATG16L2	AC092143.3	0.479475912	5.92E-23	postive
ATG16L2	AC009061.2	0.48516691	1.54E-23	postive
BCL2	AC009061.2	0.450430073	3.90E-20	postive
CXCR4	AC009061.2	0.43292036	1.46E-18	postive
EIF4G1	BACE1-AS	-0.402261418	5.11E-16	negative
ATG16L2	AC104564.5	0.552380188	2.44E-31	postive
MAP1LC3	AC104564.5	0.4100949	1.21E-16	postive
ARSB	SH3RF3-AS1	0.538347538	1.45E-29	postive
DLC1	SH3RF3-AS1	0.496246885	1.04E-24	postive
ITPR1	SH3RF3-AS1	0.435867981	8.05E-19	postive
PEA15	SH3RF3-AS1	0.477248081	9.96E-23	postive
PINK1	SH3RF3-AS1	0.449245386	5.02E-20	postive
MAP1LC3	AC017006.2	0.450143026	4.15E-20	postive

GRID1	FZD10-AS1	0.59042568	1.33E-36	postive
RPS6KB1	OPA1-AS1	0.405104449	3.04E-16	postive
RGS19	AC109446.2	0.456950171	9.59E-21	postive
ATG16L2	SSBP3-AS1	0.492395163	2.69E-24	postive
ATG2B	SSBP3-AS1	0.508779593	4.39E-26	postive
BIRC6	SSBP3-AS1	0.400737649	6.73E-16	postive
GAPDH	SSBP3-AS1	-0.420318537	1.74E-17	negative
TSC1	SSBP3-AS1	0.441535719	2.52E-19	postive
ATG16L2	AL359715.2	0.419148077	2.19E-17	postive
ATG2B	AL359715.2	0.463697391	2.17E-21	postive
PARP1	DTNB-AS1	0.597593456	1.13E-37	postive
RGS19	DTNB-AS1	0.756061645	1.18E-70	postive
ARSB	AP003071.4	0.430529428	2.36E-18	postive
BCL2	AP003071.4	0.429420176	2.94E-18	postive
DLC1	AP003071.4	0.706914621	4.65E-58	postive
GABARAP	AP003071.4	0.456535209	1.05E-20	postive
HDAC1	AP003071.4	-0.421517168	1.38E-17	negative
HSPA5	AP003071.4	-0.40485477	3.19E-16	negative
HSPB8	AP003071.4	0.845371783	1.30E-103	postive
ITGB1	AP003071.4	0.469131508	6.42E-22	postive
ITPR1	AP003071.4	0.648309743	4.36E-46	postive
NRG2	AP003071.4	0.462276016	2.98E-21	postive
PEA15	AP003071.4	0.476323793	1.23E-22	postive
PINK1	AP003071.4	0.405396782	2.88E-16	postive
ULK2	AP003071.4	0.536878372	2.21E-29	postive
ARSB	LINC02693	0.467322792	9.65E-22	postive
DLC1	LINC02693	0.47170631	3.57E-22	postive
ITPR1	LINC02693	0.436489564	7.10E-19	postive
ULK2	LINC02693	0.533083944	6.42E-29	postive
RAC1	BX470102.1	0.401940122	5.42E-16	postive
HIF1A	HIF1A-AS3	0.461559595	3.49E-21	postive
IL24	HIF1A-AS3	0.613116008	4.36E-40	postive
MAP1LC3	AC007731.3	0.505574309	1.00E-25	postive
ATG16L2	IRF1-AS1	0.544253962	2.66E-30	postive
BCL2	IRF1-AS1	0.530472411	1.33E-28	postive
CASP1	IRF1-AS1	0.441312942	2.64E-19	postive
CCR2	IRF1-AS1	0.457258563	8.96E-21	postive
CFLAR	IRF1-AS1	0.57870402	6.60E-35	postive
EIF4G1	AC011374.2	-0.409442596	1.37E-16	negative
HSPA8	AC011374.2	-0.403928942	3.77E-16	negative
ATG16L2	AC023825.2	0.45165936	3.00E-20	postive
CFLAR	AC023825.2	0.404941906	3.14E-16	postive
ATG16L2	AL031709.1	0.485828069	1.32E-23	postive
MAP1LC3	AC099811.5	0.495691992	1.20E-24	postive

NLRC4	MIR223HG	0.509803884	3.37E-26	postive
CASP3	AP001363.2	-0.401638259	5.72E-16	negative
GABARAP	AP001363.2	0.415837375	4.11E-17	postive
HSPB8	AP001363.2	0.658170503	6.49E-48	postive
ITPR1	AP001363.2	0.422092407	1.24E-17	postive
NRG2	AP001363.2	0.447819489	6.79E-20	postive
PEA15	AP001363.2	0.41608612	3.92E-17	postive
KLHL24	NCBP2-AS1	0.403240586	4.28E-16	postive
DNAJB1	AC012467.2	0.437372436	5.93E-19	postive
GAPDH	AC048382.2	-0.414736115	5.07E-17	negative
GOPC	WASHC5-AS1	0.469455955	5.96E-22	postive
ATG16L2	KANSL1L-AS1	0.558189132	4.23E-32	postive
ATG16L2	AL355075.2	0.550325269	4.49E-31	postive
ATG2B	AL355075.2	0.417495347	3.00E-17	postive
ATG16L2	AL035530.2	0.512782009	1.55E-26	postive
BCL2	AL035530.2	0.465018271	1.62E-21	postive
CFLAR	AL035530.2	0.462655482	2.74E-21	postive
CXCR4	AL035530.2	0.4330598	1.42E-18	postive
ITPR1	AL035530.2	0.404157403	3.62E-16	postive
MAP1LC3	AL035530.2	0.471611558	3.65E-22	postive
P4HB	AL035530.2	-0.414612852	5.19E-17	negative
CHMP4B	AL035420.3	0.417833157	2.81E-17	postive
ATG16L2	AC010761.3	0.463199224	2.43E-21	postive
ATG2B	AC010761.3	0.446231909	9.48E-20	postive
BIRC6	AC010761.3	0.414583364	5.21E-17	postive
GAPDH	AC010761.3	-0.40212312	5.24E-16	negative
TSC1	AC010761.3	0.443627611	1.63E-19	postive
EIF4G1	AC108673.3	-0.437408326	5.89E-19	negative
BCL2	RERG-IT1	0.417384042	3.06E-17	postive
DLC1	RERG-IT1	0.488229405	7.40E-24	postive
HSPB8	RERG-IT1	0.514063304	1.11E-26	postive
ITPR1	RERG-IT1	0.490087753	4.72E-24	postive
ULK2	RERG-IT1	0.435299687	9.04E-19	postive
VEGFA	GRTP1-AS1	0.406758849	2.25E-16	postive
ARSB	LINC02884	0.506051842	8.85E-26	postive
BCL2	LINC02884	0.607605345	3.25E-39	postive
DLC1	LINC02884	0.617497164	8.59E-41	postive
HSPB8	LINC02884	0.400094219	7.56E-16	postive
ITPR1	LINC02884	0.6568364	1.16E-47	postive
ULK2	LINC02884	0.437016155	6.38E-19	postive
CFLAR	AP000759.1	0.437713473	5.53E-19	postive
ATG16L2	AL031670.1	0.462364337	2.92E-21	postive
ATG16L2	C1RL-AS1	0.445532035	1.10E-19	postive
BIRC6	C1RL-AS1	0.408716513	1.56E-16	postive

ATG16L2	AL049840.3	0.435750455	8.25E-19	postive
ATG2B	AL049840.3	0.558150293	4.28E-32	postive
BIRC6	AL049840.3	0.444492043	1.36E-19	postive
IKBKB	AL049840.3	0.435762058	8.23E-19	postive
TSC1	AL049840.3	0.424806497	7.30E-18	postive
WIPI2	AC092171.3	0.493988758	1.82E-24	postive
ATG16L2	AC080162.1	0.498996503	5.26E-25	postive
ATG16L2	AC002553.2	0.479501385	5.89E-23	postive
MLST8	AC002553.2	-0.410765795	1.07E-16	negative
SQSTM1	AC002553.2	-0.415216861	4.63E-17	negative
ATG16L2	AC245060.2	0.502801822	2.02E-25	postive
TSC1	AC245060.2	0.446278163	9.39E-20	postive
IKBKB	MCCC1-AS1	0.425588097	6.26E-18	postive
KLHL24	MCCC1-AS1	0.462840381	2.63E-21	postive
TSC1	MCCC1-AS1	0.410577673	1.11E-16	postive
DIRAS3	MIR7-3HG	0.461563856	3.49E-21	postive
GRID1	MIR7-3HG	0.642617918	4.60E-45	postive
MAPK8IP1	MIR7-3HG	0.401292469	6.09E-16	postive
ATG16L2	AC090617.4	0.436986766	6.42E-19	postive
CFLAR	AC090617.4	0.422786516	1.08E-17	postive
DLC1	AL590226.1	0.460569611	4.34E-21	postive
TP63	ACVR2B-AS1	0.429060804	3.16E-18	postive
BCL2	AC097534.1	0.422431661	1.16E-17	postive
PIK3C3	AC097534.1	0.422956804	1.05E-17	postive
ARSB	MIR99AHG	0.491160452	3.64E-24	postive
ATIC	MIR99AHG	-0.407845293	1.84E-16	negative
BCL2	MIR99AHG	0.473129019	2.58E-22	postive
BIRC5	MIR99AHG	-0.450896233	3.53E-20	negative
DLC1	MIR99AHG	0.598175549	9.24E-38	postive
GABARAP	MIR99AHG	0.500028369	4.07E-25	postive
HDAC1	MIR99AHG	-0.446092441	9.76E-20	negative
HSPA5	MIR99AHG	-0.438175461	5.03E-19	negative
HSPB8	MIR99AHG	0.571839999	6.04E-34	postive
ITPR1	MIR99AHG	0.634045304	1.46E-43	postive
PEA15	MIR99AHG	0.463909631	2.07E-21	postive
ULK2	MIR99AHG	0.474157228	2.04E-22	postive
PELP1	AL133467.4	0.499207786	4.99E-25	postive
ATG16L2	SH3BP5-AS1	0.672039881	1.33E-50	postive
ATG2B	SH3BP5-AS1	0.439818363	3.59E-19	postive
BCL2	SH3BP5-AS1	0.419600188	2.00E-17	postive
CFLAR	SH3BP5-AS1	0.460327741	4.58E-21	postive
IKBKB	SH3BP5-AS1	0.472876883	2.73E-22	postive
MLST8	SH3BP5-AS1	-0.401178215	6.22E-16	negative
TSC1	SH3BP5-AS1	0.404173324	3.61E-16	postive

FOS	MIR23AHG	0.529745161	1.62E-28	postive
ATG16L2	AC012645.3	0.458581429	6.72E-21	postive
BCL2	AC012645.3	0.591975987	7.86E-37	postive
CXCR4	AC012645.3	0.548699535	7.25E-31	postive
MAP1LC3	AC012645.3	0.440479579	3.14E-19	postive
RGS19	AC012645.3	0.527406265	3.09E-28	postive
ARSB	AC008764.2	0.433459242	1.31E-18	postive
BCL2	AC008764.2	0.618156707	6.71E-41	postive
BIRC5	AC008764.2	-0.41273483	7.39E-17	negative
CFLAR	AC008764.2	0.470689256	4.51E-22	postive
DLC1	AC008764.2	0.432481641	1.60E-18	postive
HSPB8	AC008764.2	0.413017491	7.01E-17	postive
ITPR1	AC008764.2	0.593527031	4.62E-37	postive
ULK2	AC008764.2	0.431206146	2.06E-18	postive
ATG16L2	AC024075.3	0.449200429	5.07E-20	postive
BCL2	AC024075.3	0.561653648	1.47E-32	postive
BIRC5	AC024075.3	-0.43961805	3.74E-19	negative
CFLAR	AC024075.3	0.473745999	2.24E-22	postive
GAPDH	AC024075.3	-0.412686862	7.46E-17	negative
ITPR1	AC024075.3	0.560000376	2.44E-32	postive
P4HB	AC024075.3	-0.421381719	1.42E-17	negative
ULK2	AC024075.3	0.419578536	2.01E-17	postive
HSPA8	SND1-IT1	-0.417927918	2.76E-17	negative
ATG16L2	AC021078.1	0.488973637	6.18E-24	postive
ATG2B	AC021078.1	0.48853041	6.88E-24	postive
BIRC6	AC021078.1	0.433427637	1.32E-18	postive
IKBKB	AC021078.1	0.407079428	2.12E-16	postive
MLST8	AC021078.1	-0.469067576	6.51E-22	negative
RPS6KB1	AC021078.1	0.421507709	1.39E-17	postive
TSC1	AC021078.1	0.439090344	4.17E-19	postive
ITPR1	AC130650.1	0.443848797	1.56E-19	postive
HSPA8	MRTFA-AS1	-0.422506076	1.14E-17	negative
ATG16L2	AC012615.6	0.634360368	1.29E-43	postive
ATG2B	AC012615.6	0.410044101	1.22E-16	postive
BIRC6	AC012615.6	0.44983082	4.43E-20	postive
IKBKB	AC012615.6	0.447876694	6.70E-20	postive
TSC1	AC012615.6	0.443772655	1.59E-19	postive
TSC2	AC012615.6	0.485340955	1.48E-23	postive
TP63	PARD3-AS1	0.480457302	4.70E-23	postive
PRKAR1A	AC009065.2	-0.435857611	8.07E-19	negative
ATG4C	AC006033.2	0.436625499	6.90E-19	postive
CCR2	AC006033.2	0.634288001	1.33E-43	postive
CFLAR	AC006033.2	0.438920686	4.32E-19	postive
CXCR4	AC006033.2	0.4306521	2.30E-18	postive

FAS	AC006033.2	0.458174399	7.34E-21	postive
IFNG	AC006033.2	0.468202178	7.92E-22	postive
NLRC4	AC006033.2	0.649238691	2.95E-46	postive
TNFSF10	AC006033.2	0.410007451	1.23E-16	postive
NLRC4	LINC01506	0.405236066	2.97E-16	postive
BCL2	AC024075.1	0.56859383	1.69E-33	postive
BIRC5	AC024075.1	-0.43997947	3.48E-19	negative
CFLAR	AC024075.1	0.441518045	2.53E-19	postive
GAPDH	AC024075.1	-0.403996891	3.73E-16	negative
HSPA5	AC024075.1	-0.402886831	4.56E-16	negative
ITPR1	AC024075.1	0.557107463	5.88E-32	postive
PELP1	LINC01694	0.508928036	4.23E-26	postive
BAK1	Z97989.1	-0.413706405	6.15E-17	negative
BCL2	Z97989.1	0.456867268	9.76E-21	postive
FOXO3	Z97989.1	0.429319869	3.00E-18	postive
GAPDH	Z97989.1	-0.415835128	4.11E-17	negative
HSPB8	Z97989.1	0.413087603	6.91E-17	postive
ITPR1	Z97989.1	0.527005458	3.45E-28	postive
BIRC5	AC022211.2	0.410872175	1.05E-16	postive
EIF4G1	AC022211.2	0.420701877	1.62E-17	postive
HDAC6	AC022211.2	0.410180509	1.19E-16	postive
HGS	AC022211.2	0.423173212	1.00E-17	postive
PELP1	AC022211.2	0.518120427	3.80E-27	postive
RPTOR	AC022211.2	0.408178407	1.73E-16	postive
CX3CL1	DLGAP1-AS5	0.422593946	1.12E-17	postive
IFNG	DLGAP1-AS5	0.760964989	4.46E-72	postive
DLC1	AC011510.1	0.485777464	1.33E-23	postive
ITPR1	AC011510.1	0.452343551	2.59E-20	postive
DIRAS3	AL022313.2	0.413079196	6.93E-17	postive
ATG16L2	ARAP1-AS2	0.648554069	3.93E-46	postive
CFLAR	ARAP1-AS2	0.418754652	2.36E-17	postive
UVRAG	ARAP1-AS2	0.437901778	5.32E-19	postive
ATG16L2	AC006435.2	0.571724145	6.26E-34	postive
TSC1	AC006435.2	0.420285961	1.76E-17	postive
PARP1	AC107884.1	0.532428829	7.70E-29	postive
RGS19	AC107884.1	0.610640311	1.08E-39	postive
ATG16L2	AC004494.1	0.62975169	7.93E-43	postive
BCL2	AC004494.1	0.675301633	2.95E-51	postive
CCR2	AC004494.1	0.409806944	1.28E-16	postive
CFLAR	AC004494.1	0.538102462	1.56E-29	postive
CXCR4	AC004494.1	0.578609085	6.81E-35	postive
ITPR1	AC004494.1	0.500518474	3.60E-25	postive
MAP1LC3	AC004494.1	0.430810979	2.23E-18	postive
BIRC5	AP001065.4	0.435595384	8.51E-19	postive

ATG16L2	AC138956.2	0.5803931	3.80E-35	postive
ATG2B	AC138956.2	0.594085458	3.81E-37	postive
BIRC6	AC138956.2	0.503096458	1.88E-25	postive
IKBKB	AC138956.2	0.461966005	3.19E-21	postive
TSC1	AC138956.2	0.568578002	1.70E-33	postive
PARP1	LINC00649	0.434193319	1.13E-18	postive
RGS19	LINC00649	0.47138445	3.85E-22	postive
BCL2	AC096733.2	0.593861462	4.12E-37	postive
CXCR4	AC096733.2	0.470670104	4.53E-22	postive
ITPR1	AC096733.2	0.478250223	7.89E-23	postive
RGS19	AC096733.2	0.467093787	1.02E-21	postive
GAPDH	AC090198.1	-0.42537801	6.53E-18	negative
RB1CC1	AC090198.1	0.414483144	5.31E-17	postive
HSPB8	NEXN-AS1	0.428586319	3.47E-18	postive
GOPC	AC093297.2	0.428737282	3.37E-18	postive
BAX	LINC01943	0.41536282	4.50E-17	postive
ATG16L2	AC010319.4	0.400489293	7.04E-16	postive
ATG16L2	RHOA-IT1	0.416301512	3.76E-17	postive
RAB24	AC114947.2	0.410398903	1.14E-16	postive
MAP1LC3	AC114939.1	0.46514489	1.57E-21	postive
PARP1	LINC01679	0.584332296	1.03E-35	postive
RGS19	LINC01679	0.73394185	1.22E-64	postive
ATG16L2	AL021707.6	0.416625439	3.54E-17	postive
PELP1	AF186192.1	0.459450202	5.55E-21	postive
GRID1	LINC01117	0.452099259	2.73E-20	postive
MAPK8IP1	LINC01117	0.482955152	2.61E-23	postive
ATG16L2	AC010149.1	0.461047082	3.91E-21	postive
BCL2	AC010149.1	0.481950342	3.31E-23	postive
CFLAR	AC010149.1	0.485537758	1.41E-23	postive
CXCR4	AC010149.1	0.434711638	1.02E-18	postive
MAP1LC3	AC010149.1	0.565437816	4.54E-33	postive
HSPB8	AF111167.2	0.41448462	5.31E-17	postive
ITPR1	AF111167.2	0.46466623	1.75E-21	postive
NRG2	AF111167.2	0.412059542	8.39E-17	postive
UVRAG	AF111167.2	0.42679857	4.94E-18	postive
HIF1A	GK-AS1	0.489143468	5.93E-24	postive
IL24	GK-AS1	0.738484544	7.97E-66	postive
NAMPT	GK-AS1	0.530281199	1.40E-28	postive
WIPI1	GK-AS1	0.449234139	5.03E-20	postive
CX3CL1	LINC01480	0.576698073	1.27E-34	postive
IFNG	LINC01480	0.680957963	2.07E-52	postive
ATG16L2	AL139120.1	0.413777062	6.07E-17	postive
GRID1	PDCD4-AS1	0.409504219	1.35E-16	postive
RGS19	PDCD4-AS1	0.43381524	1.22E-18	postive

ATG16L2	PHACTR2-AS1	0.404433286	3.44E-16	postive
ATG16L2	KIF1C-AS1	0.549097115	6.45E-31	postive
CDKN1B	TSC22D1-AS1	0.431585082	1.91E-18	postive
MAP2K7	TSC22D1-AS1	0.433398324	1.33E-18	postive
CASP4	AC090912.2	0.436417204	7.20E-19	postive
CX3CL1	AC090912.2	0.509466767	3.68E-26	postive
IFNG	AC090912.2	0.623031164	1.06E-41	postive
CXCR4	LINC02328	0.407909338	1.82E-16	postive
DLC1	THCAT158	0.449201759	5.06E-20	postive
HSPB8	THCAT158	0.463555298	2.24E-21	postive
ITPR1	THCAT158	0.4361166	7.66E-19	postive
RAB33B	RAB33B-AS1	0.574664165	2.44E-34	postive
BCL2	AL391335.1	0.413261811	6.69E-17	postive
DLC1	AL391335.1	0.548459395	7.79E-31	postive
HSPB8	AL391335.1	0.764652232	3.61E-73	postive
ITPR1	AL391335.1	0.527258663	3.22E-28	postive
NRG2	AL391335.1	0.426989194	4.76E-18	postive
PINK1	AL391335.1	0.420329714	1.74E-17	postive
ULK2	AL391335.1	0.470050253	5.21E-22	postive
BCL2	TFAP2E-AS1	0.429003688	3.19E-18	postive
CFLAR	TFAP2E-AS1	0.40753528	1.95E-16	postive
CXCR4	TFAP2E-AS1	0.448620456	5.73E-20	postive
NLR4	TFAP2E-AS1	0.453814118	1.89E-20	postive
RGS19	TFAP2E-AS1	0.677649207	9.85E-52	postive
BIRC5	AC023509.3	0.419376301	2.09E-17	postive
PPP1R15A	AL021578.1	0.429224288	3.06E-18	postive
CAPN10	AFDN-DT	0.403903107	3.79E-16	postive
PELP1	AC091271.1	0.456295188	1.11E-20	postive
ATG16L2	AC004148.1	0.507065739	6.83E-26	postive
IKBKB	AC004148.1	0.442699565	1.98E-19	postive
SQSTM1	AC004148.1	-0.435012159	9.58E-19	negative
TSC1	AC004148.1	0.457682453	8.17E-21	postive
ATG16L2	AC087286.4	0.441089351	2.77E-19	postive
CFLAR	AC087286.4	0.485284774	1.50E-23	postive
GAPDH	AC087286.4	-0.415004839	4.81E-17	negative
HGS	BAIAP2-DT	0.431331533	2.01E-18	postive
LAMP1	BAIAP2-DT	0.434480657	1.07E-18	postive
RPTOR	BAIAP2-DT	0.438742198	4.48E-19	postive
ATG16L2	LINC02422	0.53101964	1.14E-28	postive
BCL2	LINC02422	0.658065733	6.79E-48	postive
CXCR4	LINC02422	0.64724891	6.79E-46	postive
ITPR1	LINC02422	0.443437579	1.70E-19	postive
MAP1LC3	LINC02422	0.440755247	2.96E-19	postive
ARSB	LINC02773	0.500810938	3.34E-25	postive

BCL2	LINC02773	0.410742871	1.07E-16	postive
CCR2	LINC02773	0.451038408	3.43E-20	postive
ITPR1	LINC02773	0.439609356	3.75E-19	postive
ATG16L2	PIK3IP1-DT	0.487408586	9.01E-24	postive
IFNG	AC022126.1	0.431303117	2.02E-18	postive
TNFSF10	AC022126.1	0.404508861	3.39E-16	postive
ATG2B	AC020558.2	0.430077463	2.58E-18	postive
GOPC	AC020558.2	0.412143742	8.26E-17	postive
TSC1	AC020558.2	0.433632669	1.27E-18	postive
MAPK8IP1	LINC01139	0.484363008	1.87E-23	postive
PEX3	LINC01139	0.409760622	1.29E-16	postive
ITPR1	LINC01589	0.416792292	3.43E-17	postive
DLC1	LINC01278	0.425317166	6.60E-18	postive
GABARAP	LINC01278	0.425482419	6.39E-18	postive
GRID1	LINC01278	0.45235222	2.59E-20	postive
HSPB8	LINC01278	0.636306667	5.93E-44	postive
NRG2	LINC01278	0.43974069	3.65E-19	postive
ULK2	LINC01278	0.454764586	1.54E-20	postive
BCL2	AL691447.2	0.489435053	5.53E-24	postive
DLC1	AL691447.2	0.510467726	2.84E-26	postive
HSPB8	AL691447.2	0.440300408	3.25E-19	postive
ITPR1	AL691447.2	0.561175355	1.70E-32	postive
MAP1LC3	AL691447.2	0.430441853	2.40E-18	postive
BCL2	AC012313.5	0.514397829	1.02E-26	postive
DLC1	AC012313.5	0.430656171	2.30E-18	postive
ITPR1	AC012313.5	0.601743437	2.64E-38	postive
ARSB	LINC01197	0.434844136	9.91E-19	postive
BCL2	LINC01197	0.636462873	5.57E-44	postive
CXCR4	LINC01197	0.500017585	4.08E-25	postive
DLC1	LINC01197	0.556579782	6.90E-32	postive
ITPR1	LINC01197	0.634713086	1.12E-43	postive
MAP1LC3	LINC01197	0.472297212	3.12E-22	postive
BCL2	TRBV11-2	0.497263682	8.11E-25	postive
CCR2	TRBV11-2	0.496657681	9.42E-25	postive
CXCR4	TRBV11-2	0.636042815	6.59E-44	postive
MAPK8IP1	DLEU2	0.452784138	2.36E-20	postive
PEX3	DLEU2	0.51457055	9.72E-27	postive
RAB24	ASMTL-AS1	0.448040238	6.48E-20	postive
GRID1	LINC00239	0.403364521	4.18E-16	postive
PARP1	AC023590.1	0.465453979	1.47E-21	postive
RGS19	AC023590.1	0.571296529	7.18E-34	postive
BCL2	CARD8-AS1	0.572061889	5.63E-34	postive
CCR2	CARD8-AS1	0.445019441	1.22E-19	postive
CXCR4	CARD8-AS1	0.505674633	9.75E-26	postive

ITPR1	CARD8-AS1	0.429596021	2.84E-18	postive
NLRC4	CARD8-AS1	0.417737932	2.86E-17	postive
RGS19	CARD8-AS1	0.476515753	1.18E-22	postive
BCL2	AC069549.1	0.402283977	5.09E-16	postive
ATG4B	KDM4A-AS1	0.419208185	2.16E-17	postive
BIRC5	RHPN1-AS1	0.402419256	4.97E-16	postive
BCL2	ZNF710-AS1	0.422996514	1.04E-17	postive
DLC1	ZNF710-AS1	0.455319378	1.37E-20	postive
HSPB8	ZNF710-AS1	0.637522557	3.64E-44	postive
ITPR1	ZNF710-AS1	0.454846555	1.51E-20	postive
BCL2	LINC02106	0.400023267	7.66E-16	postive
DLC1	LINC02106	0.528308117	2.41E-28	postive
GABARAP	LINC02106	0.426521317	5.21E-18	postive
HSPB8	LINC02106	0.771258436	3.55E-75	postive
ITPR1	LINC02106	0.600740244	3.76E-38	postive
NRG2	LINC02106	0.510376581	2.91E-26	postive
PEA15	LINC02106	0.447428019	7.37E-20	postive
ULK2	LINC02106	0.45605209	1.17E-20	postive
HDAC6	LINC01560	0.422129035	1.23E-17	postive
ATG16L2	AC092653.1	0.529089948	1.95E-28	postive
BCL2	AC092653.1	0.438638051	4.58E-19	postive
CFLAR	AC092653.1	0.430119107	2.56E-18	postive
MAP1LC3	AC092653.1	0.458426068	6.95E-21	postive
CASP1	USP30-AS1	0.505255375	1.08E-25	postive
CASP4	USP30-AS1	0.427913215	3.96E-18	postive
CX3CL1	USP30-AS1	0.51279945	1.55E-26	postive
FAS	USP30-AS1	0.451630761	3.02E-20	postive
IFNG	USP30-AS1	0.566604891	3.15E-33	postive
TNFSF10	USP30-AS1	0.50771807	5.77E-26	postive
FADD	AP002336.2	0.482955208	2.61E-23	postive
ATG16L2	AL136295.7	0.461128986	3.84E-21	postive
RAC1	AC073332.1	0.504955207	1.17E-25	postive
IL24	WNT5A-AS1	0.494422487	1.64E-24	postive
MAP1LC3	AL035071.2	0.444500522	1.36E-19	postive
ATG16L2	AC129510.1	0.418918803	2.28E-17	postive
TSC1	AC129510.1	0.481500454	3.68E-23	postive
GRID1	AC004540.1	0.462438493	2.87E-21	postive
MAPK8IP1	AC004540.1	0.530109427	1.47E-28	postive
ULK2	LAMC1-AS1	0.43137434	1.99E-18	postive
BECN1	AC145423.1	-0.40717813	2.08E-16	negative
ATG16L2	AL139407.1	0.5388509	1.26E-29	postive
ATG2B	AL139407.1	0.499902553	4.20E-25	postive
BIRC6	AL139407.1	0.446049919	9.85E-20	postive
CFLAR	AL139407.1	0.412461276	7.78E-17	postive

MLST8	AL139407.1	-0.417831387	2.81E-17	negative
TSC1	AL139407.1	0.416468894	3.65E-17	postive
ATIC	AC093010.2	-0.462451788	2.87E-21	negative
BAK1	AC093010.2	-0.401549084	5.81E-16	negative
BCL2	AC093010.2	0.498638029	5.76E-25	postive
BIRC5	AC093010.2	-0.547074602	1.17E-30	negative
CFLAR	AC093010.2	0.403946907	3.76E-16	postive
DLC1	AC093010.2	0.574728608	2.39E-34	postive
GABARAP	AC093010.2	0.524962372	6.03E-28	postive
GAPDH	AC093010.2	-0.457298883	8.89E-21	negative
HSPA5	AC093010.2	-0.440421701	3.17E-19	negative
HSPB8	AC093010.2	0.592782367	5.97E-37	postive
ITPR1	AC093010.2	0.62407009	7.14E-42	postive
NRG2	AC093010.2	0.439472842	3.86E-19	postive
P4HB	AC093010.2	-0.437601242	5.66E-19	negative
PEA15	AC093010.2	0.417640087	2.92E-17	postive
ULK2	AC093010.2	0.439206907	4.07E-19	postive
MYC	FAM222A-AS1	0.474655923	1.82E-22	postive
GRID1	AC010997.4	0.445209625	1.17E-19	postive
BIRC5	C6orf99	0.476330556	1.23E-22	postive
EIF4EBP1	C6orf99	0.418829569	2.32E-17	postive
ARSB	AL035409.1	0.495099071	1.39E-24	postive
DLC1	AL035409.1	0.635589363	7.91E-44	postive
GABARAP	AL035409.1	0.512185364	1.82E-26	postive
HSPB8	AL035409.1	0.669168744	4.92E-50	postive
ITGB1	AL035409.1	0.52999304	1.52E-28	postive
ITPR1	AL035409.1	0.530892471	1.18E-28	postive
PEA15	AL035409.1	0.416971075	3.31E-17	postive
ULK2	AL035409.1	0.508445408	4.79E-26	postive
CDKN2A	AC138207.2	0.4164937	3.63E-17	postive
ATG16L2	AC004687.1	0.440227946	3.30E-19	postive
BCL2	AC004687.1	0.525126911	5.77E-28	postive
CXCR4	AC004687.1	0.529825058	1.59E-28	postive
RGS19	AC004687.1	0.462274991	2.98E-21	postive
BCL2	AC008083.3	0.447968434	6.57E-20	postive
CXCR4	AC008083.3	0.404097415	3.66E-16	postive
PARP1	AC008083.3	0.431874958	1.80E-18	postive
RGS19	AC008083.3	0.667858821	8.89E-50	postive
ATG2B	LINC00641	0.459996352	4.93E-21	postive
BAK1	LINC00641	-0.423963934	8.61E-18	negative
BCL2	LINC00641	0.431869137	1.80E-18	postive
DLC1	LINC00641	0.507319104	6.40E-26	postive
HSPB8	LINC00641	0.572064134	5.62E-34	postive
ITPR1	LINC00641	0.551205423	3.46E-31	postive

MLST8	LINC00641	-0.433094973	1.41E-18	negative
P4HB	LINC00641	-0.404288791	3.53E-16	negative
ULK2	LINC00641	0.524903602	6.13E-28	postive
ITPR1	AC012409.1	0.412422224	7.84E-17	postive
ATG4B	SNHG11	0.457477553	8.55E-21	postive
CAPN10	SNHG11	0.435237891	9.15E-19	postive
CHMP4B	SNHG11	0.443082939	1.83E-19	postive
ATG16L2	AL512770.1	0.488579422	6.80E-24	postive
ATG9A	RAET1E-AS1	0.405162056	3.01E-16	postive
FADD	RAET1E-AS1	0.416590242	3.56E-17	postive
MAP2K7	RAET1E-AS1	0.43848715	4.72E-19	postive
MAPK8IP1	RAET1E-AS1	0.425153499	6.82E-18	postive
SPNS1	RAET1E-AS1	0.4444759	1.37E-19	postive
ATG16L2	PSMD6-AS2	0.508184251	5.12E-26	postive
ATG2B	PSMD6-AS2	0.525473509	5.25E-28	postive
BIRC6	PSMD6-AS2	0.468745397	7.00E-22	postive
CFLAR	PSMD6-AS2	0.424850384	7.24E-18	postive
IKBKB	PSMD6-AS2	0.450350956	3.97E-20	postive
ATG16L2	MIAT	0.470315328	4.91E-22	postive
BCL2	MIAT	0.434231769	1.12E-18	postive
CCR2	MIAT	0.549982454	4.97E-31	postive
CFLAR	MIAT	0.476034096	1.32E-22	postive
IFNG	MIAT	0.496401979	1.00E-24	postive
PRKCQ	MIAT	0.432282206	1.66E-18	postive
DDIT3	AL683813.1	0.467667236	8.93E-22	postive
KLHL24	AL133243.2	0.454702132	1.56E-20	postive
ATG16L2	AL021707.3	0.487195724	9.49E-24	postive
BIRC6	AL021707.3	0.456497738	1.06E-20	postive
IKBKB	AL021707.3	0.408006181	1.78E-16	postive
TSC2	AL021707.3	0.464896215	1.66E-21	postive
ITGA3	LINP1	0.411026925	1.02E-16	postive
GAPDH	AC018809.2	-0.426549063	5.19E-18	negative
KLHL24	AC018809.2	0.446721312	8.55E-20	postive
SIRT1	AC018809.2	0.403127087	4.37E-16	postive
MAP1LC3	AC012442.1	0.432407458	1.62E-18	postive
HSPA8	AC135050.6	-0.422314331	1.19E-17	negative
PARP1	PCED1B-AS1	0.547687079	9.77E-31	postive
RGS19	PCED1B-AS1	0.820406428	1.41E-92	postive
CFLAR	ADAMTSL4-AS1	0.446324631	9.30E-20	postive
IL24	ADAMTSL4-AS1	0.522199758	1.27E-27	postive
CTSB	AF131215.7	0.401385866	5.99E-16	postive
DAPK2	AL133370.1	0.413999197	5.82E-17	postive
ATG16L2	AC005104.1	0.562319307	1.19E-32	postive
ATG2B	AC005104.1	0.547739149	9.62E-31	postive

BIRC6	AC005104.1	0.4967681	9.17E-25	postive
IKBKB	AC005104.1	0.463884762	2.08E-21	postive
TSC1	AC005104.1	0.53740529	1.90E-29	postive
ITGA3	ITGB1-DT	0.472156908	3.22E-22	postive
ULK1	STARD7-AS1	0.424381579	7.93E-18	postive
LAMP1	MCF2L-AS1	0.479136227	6.41E-23	postive
BCL2	MACORIS	0.434123225	1.15E-18	postive
CXCR4	MACORIS	0.431348216	2.00E-18	postive
MAP1LC3	MACORIS	0.408890772	1.51E-16	postive
PARP1	NUP153-AS1	0.427838974	4.02E-18	postive
RGS19	NUP153-AS1	0.526730661	3.72E-28	postive
CTSD	AC068580.1	0.639706238	1.51E-44	postive
SPNS1	AC068580.1	0.400753144	6.71E-16	postive
ATG16L2	AC117500.2	0.548826756	6.99E-31	postive
CFLAR	AC117500.2	0.410281778	1.17E-16	postive
BCL2	AC010226.1	0.526172083	4.34E-28	postive
CXCR4	AC010226.1	0.430975806	2.16E-18	postive
HSPB8	AC010226.1	0.411345311	9.59E-17	postive
ITPR1	AC010226.1	0.478366611	7.68E-23	postive
FOXO3	TRAF3IP2-AS1	0.512005059	1.90E-26	postive
ATG16L2	AC116913.1	0.517578738	4.39E-27	postive
RAC1	MIOS-DT	0.493505562	2.05E-24	postive
ARSB	AP001189.1	0.535160524	3.58E-29	postive
BCL2	AP001189.1	0.479809159	5.48E-23	postive
DLC1	AP001189.1	0.618085608	6.89E-41	postive
ITPR1	AP001189.1	0.562702162	1.06E-32	postive
PEA15	AP001189.1	0.414438651	5.36E-17	postive
ZFYVE1	AP001189.1	0.452776057	2.36E-20	postive
ATG16L2	AL049869.2	0.590819116	1.17E-36	postive
ATG2B	AL049869.2	0.479802993	5.49E-23	postive
BIRC6	AL049869.2	0.4260735	5.69E-18	postive
IKBKB	AL049869.2	0.419693453	1.97E-17	postive
TSC1	AL049869.2	0.42051383	1.68E-17	postive
EEF2K	AC026904.1	0.407610157	1.92E-16	postive
PARP1	AC026904.1	0.655478319	2.08E-47	postive
RGS19	AC026904.1	0.787669549	1.81E-80	postive
EGFR	EGFR-AS1	0.612325581	5.83E-40	postive
ATG16L2	PABPC4-AS1	0.442700907	1.98E-19	postive
BIRC6	PABPC4-AS1	0.49843512	6.06E-25	postive
DLC1	NALT1	0.570075132	1.06E-33	postive
GABARAP	NALT1	0.416574754	3.57E-17	postive
HSPB8	NALT1	0.818644521	7.26E-92	postive
ITPR1	NALT1	0.479892291	5.37E-23	postive
NRG2	NALT1	0.456260232	1.11E-20	postive

ULK2	NALT1	0.476066618	1.31E-22	postive
RB1CC1	UBR5-AS1	0.408518542	1.62E-16	postive
BCL2	LINC01934	0.502453546	2.21E-25	postive
CCR2	LINC01934	0.511001516	2.47E-26	postive
CFLAR	LINC01934	0.460730629	4.19E-21	postive
CXCR4	LINC01934	0.578742886	6.52E-35	postive
MAP1LC3	LINC01934	0.484910369	1.64E-23	postive
PRKCQ	LINC01934	0.421378408	1.42E-17	postive
ATG16L2	ZKSCAN2-DT	0.447912164	6.65E-20	postive
BAK1	AC024075.2	-0.405063178	3.07E-16	negative
BCL2	AC024075.2	0.407244784	2.05E-16	postive
EIF4G1	AC024075.2	-0.425581984	6.27E-18	negative
P4HB	AC024075.2	-0.431319149	2.01E-18	negative
ATG16L2	GABPB1-AS1	0.541425413	6.03E-30	postive
PEA15	AL390719.2	-0.423435435	9.54E-18	negative
ARSB	AC104083.1	0.567415894	2.45E-33	postive
ATIC	AC104083.1	-0.419139301	2.19E-17	negative
BCL2	AC104083.1	0.527223473	3.25E-28	postive
BIRC5	AC104083.1	-0.454042661	1.80E-20	negative
DLC1	AC104083.1	0.73534431	5.29E-65	postive
GABARAP	AC104083.1	0.46687984	1.07E-21	postive
HDAC1	AC104083.1	-0.403833249	3.84E-16	negative
HSPA5	AC104083.1	-0.400248382	7.35E-16	negative
HSPB8	AC104083.1	0.620500229	2.78E-41	postive
ITGB1	AC104083.1	0.502555756	2.15E-25	postive
ITPR1	AC104083.1	0.716474715	2.68E-60	postive
P4HB	AC104083.1	-0.408149321	1.74E-16	negative
PEA15	AC104083.1	0.507810884	5.64E-26	postive
ULK2	AC104083.1	0.513924858	1.15E-26	postive
ZFYVE1	AC104083.1	0.447091355	7.91E-20	postive
TSC2	Z92544.1	0.434010977	1.17E-18	postive
CFLAR	BCL2L1-AS1	0.467869719	8.53E-22	postive
PARP1	AC017104.1	0.492908359	2.37E-24	postive
RGS19	AC017104.1	0.674455113	4.36E-51	postive
ATG16L2	ANKRD44-IT1	0.521081699	1.72E-27	postive
BCL2	ANKRD44-IT1	0.617070907	1.01E-40	postive
CXCR4	ANKRD44-IT1	0.597950177	1.00E-37	postive
ITPR1	ANKRD44-IT1	0.428871562	3.28E-18	postive
HSPB8	AL355607.1	0.433387852	1.33E-18	postive
ATG16L2	AC008735.1	0.51582242	6.99E-27	postive
BIRC6	AC008735.1	0.416384549	3.71E-17	postive
TSC1	AC008735.1	0.406167422	2.50E-16	postive
GOPC	AP001486.2	0.404627341	3.32E-16	postive
P4HB	AP001486.2	-0.420270669	1.76E-17	negative

PIK3C3	AP001486.2	0.451093991	3.39E-20	postive
ULK2	AP001486.2	0.400312038	7.27E-16	postive
NLRC4	AC114284.1	0.405708451	2.72E-16	postive
ULK1	RAMP2-AS1	0.424211357	8.20E-18	postive
ATG16L2	AC002128.1	0.450863317	3.56E-20	postive
ATG16L2	AC022973.5	0.408926873	1.50E-16	postive
TSC1	AC005332.3	0.401837927	5.52E-16	postive
EIF4EBP1	IDH1-AS1	0.449142432	5.13E-20	postive
ARSB	DUBR	0.482159323	3.15E-23	postive
DLC1	DUBR	0.522037374	1.33E-27	postive
GABARAP	DUBR	0.426564468	5.17E-18	postive
HSPB8	DUBR	0.463803632	2.12E-21	postive
ITGB1	DUBR	0.462512429	2.83E-21	postive
ITPR1	DUBR	0.487920093	7.97E-24	postive
ULK2	DUBR	0.553528038	1.73E-31	postive
ZFYVE1	DUBR	0.410691175	1.08E-16	postive
ARSB	AP000808.1	0.462901568	2.59E-21	postive
BCL2	AP000808.1	0.439211962	4.07E-19	postive
DLC1	AP000808.1	0.567993319	2.04E-33	postive
GABARAP	AP000808.1	0.420428655	1.71E-17	postive
HSPB8	AP000808.1	0.640613283	1.04E-44	postive
ITPR1	AP000808.1	0.583816436	1.23E-35	postive
PEA15	AP000808.1	0.439293845	4.00E-19	postive
PINK1	AP000808.1	0.418268022	2.59E-17	postive
ULK2	AP000808.1	0.444466262	1.37E-19	postive
PIK3C3	ZKSCAN7-AS1	0.440739716	2.97E-19	postive
RAF1	ZKSCAN7-AS1	0.431412876	1.98E-18	postive
TSC1	ZKSCAN7-AS1	0.401854847	5.50E-16	postive
TP63	C5orf66-AS1	0.504300832	1.38E-25	postive
ATG16L2	LINC00996	0.44618125	9.58E-20	postive
BCL2	LINC00996	0.573851516	3.17E-34	postive
CCR2	LINC00996	0.618511545	5.87E-41	postive
CFLAR	LINC00996	0.494535009	1.59E-24	postive
CXCR4	LINC00996	0.595150547	2.64E-37	postive
ITPR1	LINC00996	0.462684625	2.72E-21	postive
NLRC4	LINC00996	0.437581192	5.68E-19	postive
PRKCQ	LINC00996	0.416632096	3.54E-17	postive
ATG16L2	LINC00528	0.507094622	6.78E-26	postive
BCL2	LINC00528	0.492292565	2.76E-24	postive
CCR2	LINC00528	0.407804904	1.85E-16	postive
CFLAR	LINC00528	0.444878731	1.26E-19	postive
CXCR4	LINC00528	0.570291638	9.88E-34	postive
ARSA	BX537318.1	0.44647734	9.00E-20	postive
ATG16L2	AC005154.4	0.446988408	8.08E-20	postive

BCL2	AC022034.4	0.424303689	8.05E-18	postive
DLC1	AC022034.4	0.489195384	5.86E-24	postive
HSPB8	AC022034.4	0.551681422	3.00E-31	postive
ITPR1	AC022034.4	0.565504413	4.45E-33	postive
ARSB	PAXIP1-AS2	0.425495517	6.38E-18	postive
BCL2	PAXIP1-AS2	0.522869575	1.06E-27	postive
CFLAR	PAXIP1-AS2	0.490463558	4.31E-24	postive
ITPR1	PAXIP1-AS2	0.529282043	1.85E-28	postive
ATG16L2	AL354733.3	0.501623415	2.72E-25	postive
ATG2B	AL354733.3	0.427226657	4.54E-18	postive
TSC1	AL354733.3	0.561061388	1.76E-32	postive
ATG2B	AL034550.1	0.426675849	5.06E-18	postive
TSC1	AL034550.1	0.45840601	6.98E-21	postive
PEA15	AL133415.1	0.449718461	4.54E-20	postive
ATG16L2	AL513218.1	0.47256422	2.94E-22	postive
KLHL24	AC069224.1	0.458188126	7.32E-21	postive
ATG16L2	AC018695.4	0.442391612	2.11E-19	postive
ATG2B	AC018695.4	0.413918654	5.91E-17	postive
BIRC6	AC018695.4	0.424735833	7.40E-18	postive
MAP2K7	CENATAC-DT	0.464757774	1.72E-21	postive
PARP1	CENATAC-DT	0.511199826	2.35E-26	postive
PEX3	CENATAC-DT	0.428735129	3.37E-18	postive
TP73	CENATAC-DT	0.416906406	3.36E-17	postive
BAK1	AP003486.1	-0.408378054	1.67E-16	negative
BCL2	AP003486.1	0.443330236	1.74E-19	postive
BIRC5	AP003486.1	-0.435394129	8.87E-19	negative
DLC1	AP003486.1	0.538435063	1.42E-29	postive
GABARAP	AP003486.1	0.410360559	1.15E-16	postive
HSPB8	AP003486.1	0.527589654	2.94E-28	postive
ITPR1	AP003486.1	0.548117328	8.61E-31	postive
P4HB	AP003486.1	-0.440638196	3.04E-19	negative
ULK2	AP003486.1	0.491631024	3.24E-24	postive
ARSB	AL109741.1	0.400867272	6.58E-16	postive
BCL2	AL109741.1	0.501147468	3.07E-25	postive
CXCR4	AL109741.1	0.476914114	1.08E-22	postive
DLC1	AL109741.1	0.490749788	4.02E-24	postive
ITPR1	AL109741.1	0.557264092	5.61E-32	postive
MAP1LC3	AL109741.1	0.515277335	8.07E-27	postive
NKX2-3	AL109741.1	0.42645686	5.28E-18	postive
PEA15	AL109741.1	0.429273605	3.03E-18	postive
EIF2AK2	NRIR	0.481295876	3.86E-23	postive
MAP1LC3	AC002306.1	0.515518764	7.57E-27	postive
GAPDH	AC105020.1	-0.436367131	7.28E-19	negative
HSPA8	MALAT1	-0.465239057	1.54E-21	negative

ARSB	SNHG14	0.404039878	3.70E-16	postive
BCL2	SNHG14	0.436528976	7.04E-19	postive
DLC1	SNHG14	0.516093945	6.51E-27	postive
GABARAP	SNHG14	0.421009218	1.53E-17	postive
HSPB8	SNHG14	0.593791817	4.22E-37	postive
ITPR1	SNHG14	0.59745208	1.19E-37	postive
NRG2	SNHG14	0.450073347	4.21E-20	postive
ULK2	SNHG14	0.47831775	7.77E-23	postive
CFLAR	ADAMTSL4-AS2	0.451365638	3.20E-20	postive
IL24	ADAMTSL4-AS2	0.485806351	1.32E-23	postive
ATG2B	DCUN1D2-AS	0.418098608	2.67E-17	postive
MAP1LC3	L3MBTL4-AS1	0.493642913	1.98E-24	postive
FKBP1B	ARHGAP5-AS1	0.46076039	4.16E-21	postive
ATG2B	AC000123.1	0.438904575	4.34E-19	postive
BIRC5	AC083880.1	0.414831722	4.98E-17	postive
ATG16L2	AL109914.1	0.427824464	4.03E-18	postive
BCL2	AL109914.1	0.575893049	1.64E-34	postive
CXCR4	AL109914.1	0.571322691	7.12E-34	postive
MAP1LC3	AL109914.1	0.488304539	7.26E-24	postive
CDKN2A	PIK3CD-AS2	0.40012728	7.52E-16	postive
ATG16L2	AC090589.3	0.526915806	3.54E-28	postive
ATG16L2	AC068790.3	0.414003762	5.82E-17	postive
ATG2B	AC068790.3	0.470814301	4.38E-22	postive
BIRC6	AC068790.3	0.456428657	1.07E-20	postive
GOPC	AC068790.3	0.417088788	3.24E-17	postive
TSC1	AC068790.3	0.523809807	8.25E-28	postive
GNAI3	AL391121.1	-0.419959022	1.87E-17	negative
PINK1	AL391121.1	0.537011756	2.12E-29	postive
P4HB	SLC16A1-AS1	-0.429660945	2.80E-18	negative
ATIC	GSN-AS1	-0.431566893	1.92E-18	negative
BCL2	GSN-AS1	0.509791452	3.38E-26	postive
BIRC5	GSN-AS1	-0.433578402	1.28E-18	negative
CFLAR	GSN-AS1	0.449774609	4.48E-20	postive
DLC1	GSN-AS1	0.52321338	9.69E-28	postive
HSPB8	GSN-AS1	0.488286293	7.30E-24	postive
ITPR1	GSN-AS1	0.587646906	3.41E-36	postive
ZFYVE1	GSN-AS1	0.447563051	7.16E-20	postive
ATG16L2	AP002907.1	0.469895013	5.40E-22	postive
ATG16L2	TRG-AS1	0.483179109	2.47E-23	postive
BCL2	TRG-AS1	0.592058533	7.64E-37	postive
CCR2	TRG-AS1	0.614545878	2.57E-40	postive
CFLAR	TRG-AS1	0.568527006	1.72E-33	postive
CXCR4	TRG-AS1	0.590684414	1.22E-36	postive
FAS	TRG-AS1	0.430960459	2.16E-18	postive

IFNG	TRG-AS1	0.468629205	7.19E-22	postive
ITPR1	TRG-AS1	0.432030995	1.75E-18	postive
NFKB1	TRG-AS1	0.42181594	1.31E-17	postive
NLRC4	TRG-AS1	0.469305505	6.17E-22	postive
PRKCQ	TRG-AS1	0.467933376	8.41E-22	postive
HSPA8	AC078777.1	-0.400210701	7.40E-16	negative
DLC1	AC036108.3	0.534122744	4.80E-29	postive
HSPB8	AC036108.3	0.740115739	2.95E-66	postive
ITGB1	AC036108.3	0.478515832	7.41E-23	postive
ITPR1	AC036108.3	0.461812346	3.30E-21	postive
ULK2	AC036108.3	0.423160175	1.01E-17	postive
ATG16L2	AC108010.1	0.53749169	1.85E-29	postive
ATG2B	AC108010.1	0.532227324	8.15E-29	postive
BCL2	AC108010.1	0.416071575	3.93E-17	postive
BIRC6	AC108010.1	0.585986511	5.95E-36	postive
CFLAR	AC108010.1	0.496731232	9.25E-25	postive
IKBKB	AC108010.1	0.447938735	6.62E-20	postive
ITPR1	AC108010.1	0.415594976	4.31E-17	postive
TSC1	AC108010.1	0.49067898	4.09E-24	postive
TSC2	AC108010.1	0.518877814	3.11E-27	postive
ATG16L2	AL022328.1	0.579105911	5.79E-35	postive
ATG2B	AL022328.1	0.424375869	7.94E-18	postive
TSC2	AL022328.1	0.428567266	3.48E-18	postive
PINK1	SCAT2	-0.45197096	2.81E-20	negative
SESN2	AC004596.1	0.419615046	2.00E-17	postive
ATG16L2	AC022400.4	0.405447397	2.86E-16	postive
SIRT1	AC022400.4	0.468723173	7.04E-22	postive
ATG4D	AL355490.1	0.410564989	1.11E-16	postive
RGS19	RFX5-AS1	0.596573649	1.61E-37	postive
HSP90AB1	POLH-AS1	0.431703881	1.86E-18	postive
VEGFA	POLH-AS1	0.501799675	2.61E-25	postive
DLC1	AC011472.4	0.45864602	6.62E-21	postive
HSPA5	AC011472.4	-0.403618069	3.99E-16	negative
HSPB8	AC011472.4	0.663465499	6.35E-49	postive
ITPR1	AC011472.4	0.451002315	3.45E-20	postive
P4HB	AC011472.4	-0.431382317	1.99E-18	negative
ULK2	AC011472.4	0.401209818	6.18E-16	postive
MAP1LC3	UBOX5-AS1	0.436264384	7.43E-19	postive
ATG16L2	PSMA3-AS1	0.536407407	2.52E-29	postive
MLST8	PSMA3-AS1	-0.404022794	3.71E-16	negative
P4HB	PSMA3-AS1	-0.401776286	5.58E-16	negative
TSC1	PSMA3-AS1	0.440061212	3.42E-19	postive
ATG2B	NADK2-AS1	0.546509665	1.38E-30	postive
BIRC6	NADK2-AS1	0.460812189	4.12E-21	postive

GOPC	NADK2-AS1	0.457957966	7.70E-21	postive
TSC1	NADK2-AS1	0.410686136	1.08E-16	postive
MAP1LC3	USP12-AS2	0.517456527	4.53E-27	postive
MAPK8IP1	LINC01719	0.442405037	2.11E-19	postive
BCL2	ANKRD44-AS1	0.509614716	3.54E-26	postive
CXCR4	ANKRD44-AS1	0.631535929	3.94E-43	postive
MAP1LC3	ANKRD44-AS1	0.522678797	1.12E-27	postive
MAP1LC3	AC022167.3	0.477277226	9.90E-23	postive
ATG16L2	AC068790.7	0.468693487	7.09E-22	postive
GAPDH	AC068790.7	-0.406541497	2.34E-16	negative
TSC1	AC068790.7	0.401195308	6.20E-16	postive
FOXO3	FAM198B-AS1	0.416896928	3.36E-17	postive
TSC1	AL122010.1	0.426402884	5.34E-18	postive
ULK3	AC068338.2	0.447448247	7.34E-20	postive
ATG16L2	AC015911.3	0.402712721	4.71E-16	postive
BCL2	AC015911.3	0.5292291	1.87E-28	postive
CCR2	AC015911.3	0.718310091	9.71E-61	postive
CFLAR	AC015911.3	0.598082293	9.55E-38	postive
CX3CL1	AC015911.3	0.460134597	4.78E-21	postive
CXCR4	AC015911.3	0.457555928	8.40E-21	postive
ITPR1	AC015911.3	0.414087834	5.73E-17	postive
NFKB1	AC015911.3	0.419461114	2.06E-17	postive
NLRC4	AC015911.3	0.416223528	3.82E-17	postive
PRKCQ	AC015911.3	0.458076773	7.50E-21	postive
ATG5	LINC02526	0.516891624	5.27E-27	postive
DDIT3	ALG13-AS1	0.810163113	1.55E-88	postive
ATG16L2	AP002812.5	0.419620957	2.00E-17	postive
ATG16L2	AL022328.2	0.547492044	1.03E-30	postive
BIRC6	AC253536.3	0.411402279	9.49E-17	postive
ATG16L2	AC090772.1	0.456348871	1.09E-20	postive
BCL2	AC090772.1	0.406363474	2.42E-16	postive
MAP1LC3	AC090772.1	0.439383787	3.93E-19	postive
BIRC6	AC018653.3	0.472939644	2.69E-22	postive
ATIC	SNHG1	0.420452754	1.70E-17	postive
PINK1	SNHG1	-0.437215223	6.12E-19	negative
BAK1	NPTN-IT1	-0.444166977	1.46E-19	negative
HSPB8	NPTN-IT1	0.419820144	1.92E-17	postive
P4HB	NPTN-IT1	-0.431287964	2.03E-18	negative
ATG16L2	PRKCZ-AS1	0.470117361	5.13E-22	postive
ATG2B	PRKCZ-AS1	0.40079753	6.66E-16	postive
PRKCD	AL158206.1	0.404241079	3.56E-16	postive
RAB24	AP003119.2	0.422791286	1.08E-17	postive
PEA15	SNHG3	-0.423322759	9.75E-18	negative
PARP1	MYOSLID	0.59111551	1.05E-36	postive

RGS19	MYOSLID	0.736674323	2.38E-65	postive
BAG3	UNC5B-AS1	0.520404316	2.07E-27	postive
DNAJB1	UNC5B-AS1	0.410910892	1.04E-16	postive
TP63	KTN1-AS1	0.486766915	1.05E-23	postive
ARSB	AC005670.3	0.528665643	2.19E-28	postive
BCL2	AC005670.3	0.475659806	1.44E-22	postive
DLC1	AC005670.3	0.480408057	4.76E-23	postive
HSPB8	AC005670.3	0.519499187	2.63E-27	postive
ITPR1	AC005670.3	0.554743075	1.20E-31	postive
PEA15	AC005670.3	0.421810545	1.31E-17	postive
PINK1	AC005670.3	0.40080605	6.65E-16	postive
ULK2	AC005670.3	0.464093531	1.99E-21	postive
PARP1	AC007879.3	0.434186435	1.13E-18	postive
RGS19	AC007879.3	0.559072708	3.23E-32	postive
MAP1LC3	AC135178.4	0.409161545	1.44E-16	postive
HGS	AC124283.2	0.448011722	6.52E-20	postive
ATG16L2	PTOV1-AS2	0.605850698	6.11E-39	postive
IKBKB	PTOV1-AS2	0.439115297	4.15E-19	postive
ATG16L2	AL513008.1	0.538668676	1.33E-29	postive
BCL2	AL513008.1	0.59836846	8.64E-38	postive
CFLAR	AL513008.1	0.431680466	1.87E-18	postive
CXCR4	AL513008.1	0.552759277	2.18E-31	postive
ITPR1	AL513008.1	0.46591045	1.33E-21	postive
BCL2	AC007406.4	0.473598728	2.32E-22	postive
DLC1	PGM5-AS1	0.585338966	7.39E-36	postive
GABARAP	PGM5-AS1	0.447095175	7.90E-20	postive
HSPB8	PGM5-AS1	0.809260124	3.41E-88	postive
ITPR1	PGM5-AS1	0.535688963	3.09E-29	postive
NRG2	PGM5-AS1	0.453754968	1.91E-20	postive
ULK2	PGM5-AS1	0.459728192	5.22E-21	postive
ATG16L2	AC008870.2	0.509432404	3.71E-26	postive
TSC1	AC008870.2	0.40558143	2.79E-16	postive
ATG2B	AC098869.2	0.442477468	2.08E-19	postive
BIRC6	AC098869.2	0.445363959	1.14E-19	postive
EIF2AK3	AC098869.2	0.411312545	9.65E-17	postive
IKBKB	AC098869.2	0.4542084	1.74E-20	postive
PEA15	AC098869.2	-0.439098757	4.17E-19	negative
BCL2	ACTA2-AS1	0.42268515	1.10E-17	postive
BIRC5	ACTA2-AS1	-0.405831869	2.66E-16	negative
DLC1	ACTA2-AS1	0.638295704	2.67E-44	postive
GABARAP	ACTA2-AS1	0.495231702	1.34E-24	postive
HDAC1	ACTA2-AS1	-0.403992777	3.73E-16	negative
HSPA5	ACTA2-AS1	-0.421287224	1.45E-17	negative
HSPB8	ACTA2-AS1	0.814357579	3.67E-90	postive

ITGB1	ACTA2-AS1	0.443480536	1.68E-19	postive
ITPR1	ACTA2-AS1	0.615046591	2.14E-40	postive
NRG2	ACTA2-AS1	0.453637063	1.96E-20	postive
P4HB	ACTA2-AS1	-0.402799458	4.63E-16	negative
PEA15	ACTA2-AS1	0.413414911	6.50E-17	postive
ULK2	ACTA2-AS1	0.527992928	2.63E-28	postive
MAPK8IP1	ZNF337-AS1	0.413440647	6.47E-17	postive
ATG16L2	AL031846.2	0.619376837	4.24E-41	postive
BCL2	AL031846.2	0.662823811	8.43E-49	postive
CFLAR	AL031846.2	0.511861077	1.98E-26	postive
CXCR4	AL031846.2	0.480881989	4.26E-23	postive
HSPB8	AL031846.2	0.404038899	3.70E-16	postive
ITPR1	AL031846.2	0.620996711	2.30E-41	postive
ULK2	AL031846.2	0.438616138	4.60E-19	postive
SPNS1	AC120114.1	0.564070325	6.95E-33	postive
ATG16L2	AC090948.2	0.568531868	1.72E-33	postive
ATG2B	AC090948.2	0.420233824	1.77E-17	postive
BCL2	AC090948.2	0.553283167	1.86E-31	postive
BIRC6	AC090948.2	0.49882685	5.49E-25	postive
CFLAR	AC090948.2	0.479762988	5.54E-23	postive
CXCR4	AC090948.2	0.452066202	2.75E-20	postive
IKBKB	AC090948.2	0.41789051	2.78E-17	postive
ITPR1	AC090948.2	0.43749785	5.78E-19	postive
ATG16L2	AP002340.1	0.474989361	1.68E-22	postive
UVRAG	AP002340.1	0.467840146	8.59E-22	postive
ARSB	AC008808.2	0.46607667	1.28E-21	postive
ATIC	AC008808.2	-0.403242228	4.28E-16	negative
BCL2	AC008808.2	0.567001029	2.79E-33	postive
BIRC5	AC008808.2	-0.407978716	1.79E-16	negative
DLC1	AC008808.2	0.609404341	1.69E-39	postive
HSPA5	AC008808.2	-0.425481032	6.40E-18	negative
HSPB8	AC008808.2	0.600627895	3.91E-38	postive
ITPR1	AC008808.2	0.678584871	6.35E-52	postive
PEA15	AC008808.2	0.514813806	9.12E-27	postive
ULK2	AC008808.2	0.426600259	5.13E-18	postive
ZFYVE1	AC008808.2	0.409489239	1.36E-16	postive
ATG16L2	AC011379.2	0.42756499	4.24E-18	postive
RAC1	MPRIP-AS1	0.409668284	1.31E-16	postive
PELP1	AL109615.3	0.512268721	1.78E-26	postive
VEGFA	AL109615.3	0.591268536	1.00E-36	postive
ATG16L2	AC124283.3	0.444846488	1.27E-19	postive
RPS6KB1	AC124283.3	0.405708561	2.72E-16	postive
ATG16L2	AC011825.2	0.459792991	5.15E-21	postive
HSPA8	AL138963.1	-0.414564444	5.23E-17	negative

BCL2	AC006369.1	0.487514111	8.79E-24	postive
CXCR4	AC006369.1	0.56787492	2.12E-33	postive
ATG16L2	AC016405.1	0.408898073	1.51E-16	postive
BCL2	PDE2A-AS2	0.40700524	2.15E-16	postive
CXCR4	PDE2A-AS2	0.597676941	1.10E-37	postive
SPHK1	AC134312.5	0.400964359	6.46E-16	postive
TBK1	AC025423.1	0.429396542	2.95E-18	postive
DLC1	AL133346.1	0.469862807	5.44E-22	postive
MAP1LC3	AC007922.2	0.402413965	4.97E-16	postive
DAPK2	VIPR1-AS1	0.457710286	8.12E-21	postive
ATG16L2	AL021878.2	0.520384224	2.08E-27	postive
HIF1A	LUCAT1	0.415837842	4.11E-17	postive
IL24	LUCAT1	0.400022744	7.66E-16	postive
ATG2B	AC112491.1	-0.479515618	5.87E-23	negative
BIRC6	AC112491.1	-0.428406702	3.59E-18	negative
PIK3R4	AC112491.1	-0.422474012	1.15E-17	negative
WDFY3	AC112491.1	-0.4362361	7.47E-19	negative
ATG16L2	AC090948.3	0.622130383	1.50E-41	postive
BCL2	AC090948.3	0.436925997	6.50E-19	postive
CXCR4	AC090948.3	0.464782328	1.71E-21	postive
IKBKB	AC090948.3	0.403415599	4.14E-16	postive
TSC1	AL590729.1	0.455883915	1.21E-20	postive
ATG16L2	AC020913.1	0.501658828	2.70E-25	postive
BCL2	AC020913.1	0.409257324	1.41E-16	postive
CFLAR	AC020913.1	0.472144171	3.23E-22	postive
CTSB	AF131215.4	0.406117528	2.53E-16	postive
DLC1	BARX1-DT	0.63347814	1.83E-43	postive
GABARAP	BARX1-DT	0.513550501	1.27E-26	postive
HSPB8	BARX1-DT	0.814860221	2.33E-90	postive
ITPR1	BARX1-DT	0.585320832	7.44E-36	postive
NRG2	BARX1-DT	0.504719178	1.24E-25	postive
PEA15	BARX1-DT	0.440485261	3.13E-19	postive
ULK2	BARX1-DT	0.486340008	1.16E-23	postive
TSC1	AC010168.2	0.453315925	2.10E-20	postive
ATG16L2	LINC01550	0.423634472	9.18E-18	postive
BCL2	LINC01550	0.62393033	7.54E-42	postive
CXCR4	LINC01550	0.635527085	8.10E-44	postive
ITPR1	LINC01550	0.500295999	3.80E-25	postive
MAP1LC3	LINC01550	0.527370315	3.12E-28	postive
ARSB	PTPRN2-AS1	0.476917671	1.08E-22	postive
CCR2	PTPRN2-AS1	0.60093392	3.51E-38	postive
CTSD	PTPRN2-AS1	0.502311082	2.29E-25	postive
NLR4	PTPRN2-AS1	0.579034883	5.93E-35	postive
BAK1	AL049838.1	-0.414481021	5.32E-17	negative

DLC1	AL049838.1	0.553758308	1.61E-31	postive
GABARAP	AL049838.1	0.525963203	4.59E-28	postive
HDAC1	AL049838.1	-0.411968705	8.53E-17	negative
HSPB8	AL049838.1	0.548482437	7.73E-31	postive
ITPR1	AL049838.1	0.528520531	2.28E-28	postive
ULK2	AL049838.1	0.480729538	4.41E-23	postive
BIRC5	LINC01547	0.441646986	2.46E-19	postive
NPC1	AC007996.1	0.414110806	5.70E-17	postive
PARP1	AC136424.2	0.41266135	7.49E-17	postive
RGS19	AC136424.2	0.626383477	2.94E-42	postive
IFNG	AF124730.1	0.406299507	2.44E-16	postive
ATG16L2	AC015853.1	0.437412593	5.88E-19	postive
DLC1	AC009806.1	0.544265692	2.65E-30	postive
HSPB8	AC009806.1	0.682357242	1.06E-52	postive
ITPR1	AC009806.1	0.512185794	1.82E-26	postive
ULK2	AC009806.1	0.432940886	1.45E-18	postive
BCL2	AC008676.1	0.487736489	8.33E-24	postive
HSPB8	AC008676.1	0.415948129	4.03E-17	postive
CFLAR	AC139795.2	0.40396923	3.75E-16	postive
MAP1LC3	LINC01985	0.400701705	6.78E-16	postive
ATG4D	AC024575.1	0.419168148	2.18E-17	postive
MAP2K7	AC024575.1	0.410641382	1.09E-16	postive
RB1CC1	OTUD6B-AS1	0.414261368	5.54E-17	postive
ATG16L2	AC092574.2	0.477693291	8.98E-23	postive
ATG16L2	AC091185.1	0.448581217	5.78E-20	postive
BIRC6	AC091185.1	0.409110589	1.45E-16	postive
IKBKB	AC091185.1	0.570322691	9.78E-34	postive
TSC1	AC091185.1	0.436945681	6.47E-19	postive
ARNT	AC005332.6	0.407995734	1.79E-16	postive
PRKAR1A	AC005332.6	0.517768097	4.17E-27	postive
TSC1	AC005332.6	0.410025315	1.23E-16	postive
WDFY3	AC005332.6	0.505487199	1.02E-25	postive
ATG16L2	AC093535.1	0.415108124	4.72E-17	postive
CFLAR	AC093535.1	0.411545845	9.23E-17	postive
GABARAP	AC005165.1	0.47501134	1.67E-22	postive
HSPB8	AC005165.1	0.599710926	5.40E-38	postive
ITPR1	AC005165.1	0.442639231	2.01E-19	postive
ARSB	LINC00294	0.420990862	1.53E-17	postive
BCL2	LINC00294	0.403087251	4.40E-16	postive
DLC1	LINC00294	0.489648475	5.25E-24	postive
HSPB8	LINC00294	0.559781885	2.60E-32	postive
ITPR1	LINC00294	0.453624626	1.97E-20	postive
P4HB	LINC00294	-0.437466183	5.82E-19	negative
ULK2	LINC00294	0.448981363	5.31E-20	postive

ATG16L2	AC127502.2	0.500001311	4.09E-25	postive
MAP1LC3	AC130324.1	0.421527565	1.38E-17	postive
DLC1	HAND2-AS1	0.654009688	3.90E-47	postive
GABARAP	HAND2-AS1	0.430773225	2.25E-18	postive
HSPB8	HAND2-AS1	0.854114987	6.02E-108	postive
ITGB1	HAND2-AS1	0.449129652	5.14E-20	postive
ITPR1	HAND2-AS1	0.553561405	1.71E-31	postive
NRG2	HAND2-AS1	0.452426626	2.55E-20	postive
PEA15	HAND2-AS1	0.427904834	3.97E-18	postive
ULK2	HAND2-AS1	0.502913313	1.97E-25	postive
BCL2	FTX	0.407937035	1.81E-16	postive
GAPDH	FTX	-0.444822464	1.27E-19	negative
ITPR1	FTX	0.461508966	3.53E-21	postive
BIRC5	MRPL20-AS1	0.449823793	4.44E-20	postive
CAPN10	MRPL20-AS1	0.410377317	1.15E-16	postive
HDAC6	MRPL20-AS1	0.431803204	1.83E-18	postive
PELP1	MRPL20-AS1	0.400119673	7.53E-16	postive
PEX14	MRPL20-AS1	0.524193317	7.43E-28	postive
DLC1	AL390955.2	0.420131066	1.81E-17	postive
HSPB8	AL390955.2	0.446775881	8.45E-20	postive
MAPK8IP1	AC010327.5	0.402290062	5.08E-16	postive
ATG16L2	AC010618.3	0.448393992	6.01E-20	postive
P4HB	AC073569.1	-0.42187946	1.29E-17	negative
CXCR4	AC090825.1	0.41832446	2.56E-17	postive
ITPR1	AC090825.1	0.435564904	8.56E-19	postive
ATG16L2	AC135050.5	0.423153808	1.01E-17	postive
BCL2	AC110995.1	0.408224809	1.71E-16	postive
CCR2	AC110995.1	0.470861828	4.33E-22	postive
NLRC4	AC110995.1	0.434479493	1.07E-18	postive
ATG16L2	LINC01588	0.454964654	1.47E-20	postive
BCL2	AC100830.2	0.432689709	1.53E-18	postive
CFLAR	AC100830.2	0.402739452	4.69E-16	postive
DLC1	AC100830.2	0.401810575	5.55E-16	postive
GAPDH	AC100830.2	-0.402028293	5.33E-16	negative
HSPB8	AC100830.2	0.559328635	2.99E-32	postive
ITPR1	AC100830.2	0.539664721	9.98E-30	postive
ULK2	AC100830.2	0.446314295	9.32E-20	postive
MAP1LC3	AC055764.1	0.456653535	1.02E-20	postive
EIF2AK2	AP001610.2	0.444166658	1.46E-19	postive
MAP1LC3	AC010422.4	0.478610107	7.25E-23	postive
SPNS1	AC145285.6	0.439453774	3.87E-19	postive
ATG16L2	AC090510.2	0.493840855	1.89E-24	postive
ITPR1	AC090510.2	0.418036237	2.70E-17	postive
ATG16L2	AC087501.1	0.427890102	3.98E-18	postive

ATG16L2	MAP3K14-AS1	0.494026106	1.80E-24	postive
HSPB8	AL157904.1	0.41641799	3.68E-17	postive
CX3CL1	AL157871.2	0.405887254	2.64E-16	postive
IFNG	AL157871.2	0.503490314	1.70E-25	postive
ARSB	LINC00578	0.496524797	9.74E-25	postive
DLC1	LINC00578	0.652576827	7.19E-47	postive
GABARAP	LINC00578	0.411760655	8.87E-17	postive
HSPB8	LINC00578	0.636692316	5.08E-44	postive
ITGB1	LINC00578	0.512008682	1.90E-26	postive
ITPR1	LINC00578	0.539372451	1.09E-29	postive
PEA15	LINC00578	0.517087484	5.00E-27	postive
ULK2	LINC00578	0.458015584	7.60E-21	postive
ZFYVE1	LINC00578	0.402157752	5.21E-16	postive
ATG16L2	AC105339.3	0.406989036	2.15E-16	postive
MAPK8IP1	TPT1-AS1	0.43243916	1.61E-18	postive
PEX3	TPT1-AS1	0.400557929	6.95E-16	postive
PINK1	AC073333.1	-0.406333817	2.43E-16	negative
GRID1	AC005696.4	0.507821329	5.62E-26	postive
MAPK8IP1	AC005696.4	0.427511975	4.29E-18	postive
TP63	AC103563.7	0.432316665	1.65E-18	postive
ATG16L2	AC092119.2	0.426393107	5.35E-18	postive
TSC1	AC092119.2	0.40050193	7.03E-16	postive
ATG16L2	AC011479.2	0.437010027	6.38E-19	postive
BECN1	AC016876.2	-0.414060356	5.76E-17	negative
ATG2B	STARD4-AS1	0.452560084	2.47E-20	postive
BAK1	STARD4-AS1	-0.408607177	1.60E-16	negative
DLC1	STARD4-AS1	0.432363937	1.63E-18	postive
ITPR1	STARD4-AS1	0.408128807	1.74E-16	postive
TSC1	AC024361.3	0.430176267	2.53E-18	postive
ATIC	AC104825.1	-0.457181013	9.12E-21	negative
BID	AC104825.1	-0.407617823	1.92E-16	negative
BIRC5	AC104825.1	-0.412332798	7.97E-17	negative
DLC1	AC104825.1	0.499561792	4.57E-25	postive
GABARAP	AC104825.1	0.472217651	3.18E-22	postive
HDAC1	AC104825.1	-0.406439633	2.38E-16	negative
HSPB8	AC104825.1	0.65519372	2.35E-47	postive
ITPR1	AC104825.1	0.540167309	8.65E-30	postive
NRG2	AC104825.1	0.468783925	6.94E-22	postive
ULK2	AC104825.1	0.493753775	1.93E-24	postive
ZFYVE1	AC104825.1	0.461554647	3.49E-21	postive
MAPK8IP1	AC002401.2	0.497035232	8.58E-25	postive
ATG16L2	AL365330.1	0.541027855	6.76E-30	postive
TSC1	AL365330.1	0.420054902	1.84E-17	postive
DLC1	AC005837.4	0.520349063	2.10E-27	postive

HSPB8	AC005837.4	0.452649289	2.43E-20	postive
ITPR1	AC005837.4	0.465099882	1.59E-21	postive
ULK2	AC005837.4	0.460822341	4.11E-21	postive
P4HB	AC015726.1	-0.415036858	4.79E-17	negative
ATG16L2	AC073655.2	0.4181589	2.64E-17	postive
ARSB	LINC00863	0.404668673	3.30E-16	postive
MAP2K7	LINC00863	0.465924465	1.32E-21	postive
PINK1	LINC00863	0.415342253	4.52E-17	postive
ULK1	LINC00863	0.410140808	1.20E-16	postive
ARSB	AL354811.1	0.557120108	5.86E-32	postive
DLC1	AL354811.1	0.508293508	4.98E-26	postive
SPNS1	AC026471.1	0.515668148	7.28E-27	postive
RB1CC1	AC010834.3	0.485164949	1.54E-23	postive
MAP1LC3	LCMT1-AS1	0.413856227	5.98E-17	postive
ATG16L2	AC063965.2	0.413112797	6.88E-17	postive
CHMP4B	CH17-340M24.3	0.405259061	2.96E-16	postive
RAB24	CH17-340M24.3	0.402447262	4.94E-16	postive
ATG16L2	AC025034.1	0.514201087	1.07E-26	postive
GOPC	MROCKI	0.472153437	3.23E-22	postive
FADD	LINC02747	0.432580705	1.56E-18	postive
CASP4	AL163952.1	0.42751022	4.29E-18	postive
ATG16L2	AC025043.1	0.413169696	6.81E-17	postive
CFLAR	AC025043.1	0.420370145	1.73E-17	postive
GAPDH	AC025043.1	-0.400696311	6.78E-16	negative
ITGA3	MANCR	0.421538857	1.38E-17	postive
PINK1	AC007038.1	-0.508864859	4.30E-26	negative
BIRC5	AC012640.2	0.415248222	4.60E-17	postive
MAP1LC3	AC009831.3	0.532338135	7.90E-29	postive
EIF4G1	AL354760.1	-0.415627754	4.28E-17	negative
MAP1LC3	AL023584.2	0.435250436	9.13E-19	postive
GABARAP	AC139768.1	0.448289054	6.14E-20	postive
HSPB8	AC139768.1	0.469249675	6.25E-22	postive
ITPR1	AC139768.1	0.423706697	9.05E-18	postive
ATG16L2	ACAP2-IT1	0.545237745	2.00E-30	postive
ATG2B	ACAP2-IT1	0.507250988	6.51E-26	postive
BIRC6	ACAP2-IT1	0.541772231	5.45E-30	postive
IKBKB	ACAP2-IT1	0.448821644	5.49E-20	postive
KLHL24	ACAP2-IT1	0.46857127	7.28E-22	postive
PIK3R4	ACAP2-IT1	0.40167019	5.69E-16	postive
TSC1	ACAP2-IT1	0.471104187	4.10E-22	postive
MAP1LC3	LINC00173	0.425018998	7.00E-18	postive
ATG16L2	LINC01857	0.43705957	6.32E-19	postive
BCL2	LINC01857	0.587659985	3.40E-36	postive
CXCR4	LINC01857	0.661101847	1.80E-48	postive

MAP1LC3	LINC01857	0.499511507	4.63E-25	postive
HDAC6	H19	0.424268016	8.11E-18	postive
SERPINA1	LINC02637	0.56030779	2.22E-32	postive
MAP1LC3	AC126773.3	0.415760105	4.17E-17	postive
ATG16L2	RBM5-AS1	0.50577183	9.51E-26	postive
CFLAR	RBM5-AS1	0.412944671	7.10E-17	postive
BCL2	AL132642.1	0.546593869	1.35E-30	postive
DLC1	AL132642.1	0.610198151	1.27E-39	postive
HSPB8	AL132642.1	0.796749889	1.33E-83	postive
ITGB1	AL132642.1	0.417709839	2.88E-17	postive
ITPR1	AL132642.1	0.683818795	5.27E-53	postive
NRG2	AL132642.1	0.453128128	2.19E-20	postive
ULK2	AL132642.1	0.49224925	2.79E-24	postive
ATG16L2	AC018410.1	0.456328778	1.10E-20	postive
CFLAR	AC018410.1	0.456793636	9.92E-21	postive
ITGB4	AC087289.5	0.413841496	6.00E-17	postive
ATG16L2	AC109460.2	0.470413366	4.80E-22	postive
ATG16L2	AC090971.2	0.428638837	3.43E-18	postive
DIRAS3	AC002456.1	0.466844092	1.08E-21	postive
GRID1	AC002456.1	0.683685967	5.62E-53	postive
TP63	AC040904.1	0.464450433	1.84E-21	postive
ATG16L2	AC078883.1	0.462383104	2.91E-21	postive
IKBKB	AC078883.1	0.42491439	7.15E-18	postive
ITGA6	AC078883.1	0.525090277	5.82E-28	postive
ATG16L2	EFCAB14-AS1	0.439104296	4.16E-19	postive
ATG2B	EFCAB14-AS1	0.46570211	1.39E-21	postive
BIRC6	EFCAB14-AS1	0.443935695	1.53E-19	postive
EIF2AK3	EFCAB14-AS1	0.404430174	3.44E-16	postive
MAPK8IP1	AP000757.1	0.445539992	1.10E-19	postive
ATG2B	AC004837.2	0.408443109	1.65E-16	postive
ATG16L2	AC022558.3	0.452094335	2.73E-20	postive
GAPDH	AC016949.1	-0.408806776	1.54E-16	negative
HSPA8	AC016949.1	-0.419117175	2.20E-17	negative
MAP1LC3	AC087749.2	0.412365523	7.92E-17	postive
ATG16L2	AC096586.2	0.50324348	1.81E-25	postive
ATG2B	AC096586.2	0.445909448	1.01E-19	postive
IKBKB	AC096586.2	0.443984024	1.52E-19	postive
TSC1	AC096586.2	0.443480518	1.68E-19	postive
ATG16L2	AC024267.5	0.413904121	5.93E-17	postive
FOS	NR4A1AS	0.538824076	1.27E-29	postive
ATG16L2	AC009950.1	0.460689796	4.23E-21	postive
BCL2	AC009950.1	0.444351351	1.41E-19	postive
CFLAR	AC009950.1	0.440132431	3.37E-19	postive
CXCR4	AC009950.1	0.427335534	4.44E-18	postive

DLC1	AC067750.1	0.606470112	4.89E-39	postive
GABARAP	AC067750.1	0.402866598	4.58E-16	postive
HSPB8	AC067750.1	0.726687145	8.53E-63	postive
ITPR1	AC067750.1	0.56734212	2.50E-33	postive
P4HB	AC067750.1	-0.452718369	2.39E-20	negative
ULK2	AC067750.1	0.554991517	1.11E-31	postive
MAPK8IP1	LINC00235	0.413189143	6.78E-17	postive
ATG16L2	AC137932.3	0.506394013	8.11E-26	postive
TSC1	AC137932.3	0.420896	1.56E-17	postive
BCL2	LINC00476	0.50452968	1.31E-25	postive
EIF2AK3	LINC00365	0.470842458	4.35E-22	postive
ATG16L2	LINC01355	0.471003311	4.19E-22	postive
ATG16L2	AC027682.4	0.419611514	2.00E-17	postive
BCL2	AC027682.4	0.408983603	1.49E-16	postive
BAG3	AC005841.1	0.427001617	4.74E-18	postive
DNAJB1	AC005841.1	0.496302213	1.03E-24	postive
HIF1A	AC245128.3	0.426056001	5.71E-18	postive
IL24	AC245128.3	0.498721247	5.64E-25	postive
NAMPT	AC245128.3	0.474225798	2.01E-22	postive
NLRC4	AC245128.3	0.431023358	2.14E-18	postive
BIRC5	DNM3OS	-0.421989629	1.26E-17	negative
DLC1	DNM3OS	0.576546603	1.33E-34	postive
EIF4G1	DNM3OS	-0.414112036	5.70E-17	negative
GABARAP	DNM3OS	0.470539706	4.66E-22	postive
HGS	DNM3OS	-0.40466067	3.30E-16	negative
HSPB8	DNM3OS	0.463048806	2.51E-21	postive
ITPR1	DNM3OS	0.482968813	2.60E-23	postive
P4HB	DNM3OS	-0.43343901	1.32E-18	negative
ULK2	DNM3OS	0.43629662	7.38E-19	postive
HSPA8	AL445248.1	-0.435163661	9.29E-19	negative
KLHL24	TMEM44-AS1	0.404793971	3.22E-16	postive
ATG16L2	AC087500.1	0.524186141	7.45E-28	postive
BCL2	AC087500.1	0.595581788	2.28E-37	postive
CFLAR	AC087500.1	0.443868572	1.55E-19	postive
CXCR4	AC087500.1	0.445182445	1.18E-19	postive
GAPDH	AC087500.1	-0.403394093	4.16E-16	negative
ITPR1	AC087500.1	0.516320192	6.13E-27	postive
MAP1LC3	AC087500.1	0.437357329	5.95E-19	postive
ATG16L2	AC005519.1	0.545757944	1.72E-30	postive
TSC1	AC005519.1	0.423527593	9.37E-18	postive
ATG16L2	AL049840.2	0.545926673	1.64E-30	postive
ATG2B	AL049840.2	0.427250654	4.52E-18	postive
IKBKB	AL049840.2	0.444597257	1.33E-19	postive
HSPB8	LINC02762	0.577134638	1.10E-34	postive

ATG9B	LINC00973	0.457863723	7.86E-21	postive
ARSB	AC107959.1	0.503056823	1.90E-25	postive
BCL2	AC107959.1	0.609659515	1.54E-39	postive
CCR2	AC107959.1	0.421730588	1.33E-17	postive
DLC1	AC107959.1	0.677873404	8.87E-52	postive
GABARAP	AC107959.1	0.43978453	3.62E-19	postive
HSPB8	AC107959.1	0.589628312	1.75E-36	postive
ITPR1	AC107959.1	0.718194063	1.04E-60	postive
PEA15	AC107959.1	0.470184981	5.05E-22	postive
PINK1	AC107959.1	0.407528187	1.95E-16	postive
ULK2	AC107959.1	0.483091821	2.53E-23	postive
ZFYVE1	AC107959.1	0.433373752	1.33E-18	postive
BAG3	AL049780.2	0.421485805	1.39E-17	postive
DLC1	AC100830.1	0.464787737	1.70E-21	postive
HSPB8	AC100830.1	0.691953858	9.90E-55	postive
ITPR1	AC100830.1	0.531844529	9.07E-29	postive
NRG2	AC100830.1	0.45293954	2.28E-20	postive
ULK2	AC100830.1	0.459755906	5.19E-21	postive
DLC1	AP001347.1	0.479124276	6.43E-23	postive
HSPB8	AP001347.1	0.580806999	3.32E-35	postive
ITPR1	AP001347.1	0.456622312	1.03E-20	postive
NRG2	AP001347.1	0.406723351	2.26E-16	postive
ATG16L2	CFLAR-AS1	0.466278521	1.22E-21	postive
CFLAR	CFLAR-AS1	0.656661237	1.25E-47	postive
DIRAS3	LINC01116	0.427834475	4.02E-18	postive
GRID1	LINC01116	0.546341817	1.45E-30	postive
ATG16L2	AC138956.1	0.540943547	6.92E-30	postive
ATG2B	AC138956.1	0.55656349	6.93E-32	postive
BIRC6	AC138956.1	0.459561836	5.42E-21	postive
IKBKB	AC138956.1	0.424634982	7.55E-18	postive
TSC1	AC138956.1	0.495228177	1.34E-24	postive
FOXO3	AL080317.1	0.494913743	1.45E-24	postive
IFNG	AP002954.1	0.490497307	4.27E-24	postive
NLRC4	AP002954.1	0.577375666	1.02E-34	postive
ATG16L2	AP006621.2	0.473857357	2.18E-22	postive
FOXO3	AL080317.2	0.537087698	2.08E-29	postive
PARP1	EPS15-AS1	0.462132863	3.07E-21	postive
RGS19	EPS15-AS1	0.430446569	2.40E-18	postive
EEF2K	AC004847.1	0.417969936	2.74E-17	postive
PARP1	AC004847.1	0.60368026	1.33E-38	postive
RGS19	AC004847.1	0.802673673	9.80E-86	postive
ATG16L2	SLBP-DT	0.428361918	3.63E-18	postive
MAP1LC3	DLG5-AS1	0.414735852	5.07E-17	postive
TP63	LINC02541	0.649454925	2.69E-46	postive

ATG16L2	AC012181.2	0.491681808	3.20E-24	postive
CFLAR	AC012181.2	0.475168815	1.61E-22	postive
CXCR4	AC012181.2	0.415852181	4.10E-17	postive
DIRAS3	AL359853.1	0.45855114	6.76E-21	postive
BCL2	AC133065.1	0.468970853	6.66E-22	postive
PARP1	AC133065.1	0.472014471	3.33E-22	postive
RGS19	AC133065.1	0.655693742	1.89E-47	postive
PELP1	AC091153.2	0.425728417	6.09E-18	postive
ATG16L2	AL158163.2	0.493995171	1.82E-24	postive
TSC1	TMEM147-AS1	0.419460749	2.06E-17	postive
ATG16L2	AC008105.2	0.578991251	6.01E-35	postive
BCL2	AC008105.2	0.582425506	1.95E-35	postive
CCR2	AC008105.2	0.463948391	2.05E-21	postive
CFLAR	AC008105.2	0.520407889	2.06E-27	postive
CXCR4	AC008105.2	0.615891485	1.56E-40	postive
ITPR1	AC008105.2	0.433394121	1.33E-18	postive
MAP1LC3	AC008105.2	0.450333156	3.98E-20	postive
CTSD	AC068580.3	0.739829448	3.51E-66	postive
BCL2	AF001548.2	0.411622992	9.10E-17	postive
DLC1	AF001548.2	0.462559217	2.80E-21	postive
HSPB8	AF001548.2	0.650478854	1.75E-46	postive
ITPR1	AF001548.2	0.513736626	1.21E-26	postive
NRG2	AF001548.2	0.420758527	1.60E-17	postive
ULK2	AF001548.2	0.447098517	7.90E-20	postive
RAC1	AL355353.1	0.432761779	1.51E-18	postive
ARSA	CHKB-DT	0.486153266	1.22E-23	postive
SIRT1	BMS1P4	0.401188815	6.21E-16	postive
ATG16L2	AL137779.2	0.417186726	3.18E-17	postive
BCL2	AL137779.2	0.438719557	4.50E-19	postive
CXCR4	AL137779.2	0.401045482	6.37E-16	postive
ARSB	NR2F1-AS1	0.469136776	6.41E-22	postive
BCL2	NR2F1-AS1	0.447513839	7.24E-20	postive
DLC1	NR2F1-AS1	0.662318543	1.05E-48	postive
GABARAP	NR2F1-AS1	0.530337748	1.38E-28	postive
HDAC1	NR2F1-AS1	-0.416891624	3.36E-17	negative
HSPA5	NR2F1-AS1	-0.413081079	6.92E-17	negative
HSPB8	NR2F1-AS1	0.687148156	1.05E-53	postive
ITGB1	NR2F1-AS1	0.407012315	2.14E-16	postive
ITPR1	NR2F1-AS1	0.603821922	1.26E-38	postive
NRG2	NR2F1-AS1	0.412616177	7.55E-17	postive
PEA15	NR2F1-AS1	0.474728573	1.79E-22	postive
PRKCD	NR2F1-AS1	-0.403759079	3.89E-16	negative
ULK2	NR2F1-AS1	0.529438191	1.77E-28	postive
ZFYVE1	NR2F1-AS1	0.415490459	4.39E-17	postive

MAP1LC3	AL035658.1	0.442768594	1.95E-19	postive
NLRC4	AL117336.1	0.422356605	1.18E-17	postive
ATG16L2	ZNF32-AS2	0.437072113	6.30E-19	postive
MAPK8	ZNF32-AS2	0.406604531	2.31E-16	postive
TSC1	ZNF32-AS2	0.404981328	3.11E-16	postive
ATG16L2	AC003070.1	0.440716946	2.99E-19	postive
BIRC5	AC074135.1	0.414631351	5.17E-17	postive
MAPK8IP1	RASSF10-DT	0.400976446	6.45E-16	postive
TP63	AL683807.1	0.526901062	3.55E-28	postive
RB1CC1	AC113139.1	0.457960419	7.69E-21	postive
ATG16L2	AC015727.1	0.452612844	2.45E-20	postive
BCL2	AC015727.1	0.416511074	3.62E-17	postive
ATG16L2	AC132872.3	0.550218183	4.63E-31	postive
TSC1	AC132872.3	0.455164661	1.41E-20	postive
ATG16L2	AC110792.3	0.404856017	3.19E-16	postive
ATG16L2	Z82243.1	0.433628581	1.27E-18	postive
IL24	AC113346.1	0.449017777	5.27E-20	postive
ARNT	AL139011.1	0.44003186	3.44E-19	postive
ATG16L2	AL139011.1	0.414399843	5.40E-17	postive
BCL2	AC145098.1	0.483760939	2.16E-23	postive
EDEM1	AC145098.1	0.463928661	2.06E-21	postive
NLRC4	AC145098.1	0.427301195	4.47E-18	postive
PARP1	AC145098.1	0.527236411	3.24E-28	postive
RGS19	AC145098.1	0.709954226	9.23E-59	postive
ITPR1	AC090152.1	0.417159667	3.20E-17	postive
CCR2	AC008972.2	0.426579341	5.15E-18	postive
ATG16L2	AF129075.1	0.417775621	2.84E-17	postive
DLC1	AC103740.1	0.400331635	7.24E-16	postive
HSPB8	AC103740.1	0.691613999	1.17E-54	postive
ITPR1	AC103740.1	0.400928368	6.50E-16	postive
KLHL24	AC092953.2	0.46813009	8.05E-22	postive
ATG16L2	AL159169.2	0.415512716	4.37E-17	postive
ATG16L2	AC087276.1	0.421825375	1.30E-17	postive
BCL2	RBM38-AS1	0.577570618	9.55E-35	postive
CXCR4	RBM38-AS1	0.449180301	5.09E-20	postive
HSPB8	RBM38-AS1	0.493772896	1.92E-24	postive
ITPR1	RBM38-AS1	0.502935871	1.96E-25	postive
NRG2	RBM38-AS1	0.418090174	2.68E-17	postive
GAPDH	RNF216-IT1	-0.408878119	1.52E-16	negative
HSPB8	RNF216-IT1	0.455293639	1.37E-20	postive
ITPR1	RNF216-IT1	0.458992229	6.14E-21	postive
P4HB	RNF216-IT1	-0.407902368	1.82E-16	negative
IL24	GK-IT1	0.583032029	1.59E-35	postive
ATF6	AL391001.1	0.459151031	5.93E-21	postive

DNAJB9	AL391001.1	0.439659628	3.71E-19	postive
FKBP1A	AL035461.2	0.454885944	1.50E-20	postive
ATG16L2	AC024267.3	0.477348815	9.73E-23	postive
GAPDH	AC024267.3	-0.410434053	1.14E-16	negative
BCL2	AC018755.4	0.402666976	4.75E-16	postive
CXCR4	AC018755.4	0.490384794	4.39E-24	postive
DLC1	CARMN	0.561943114	1.34E-32	postive
HSPB8	CARMN	0.735691604	4.30E-65	postive
ITPR1	CARMN	0.595547949	2.30E-37	postive
NRG2	CARMN	0.468399145	7.57E-22	postive
ULK2	CARMN	0.479767338	5.53E-23	postive
EIF4G1	AC010245.2	-0.420441495	1.70E-17	negative
P4HB	AC010245.2	-0.432987294	1.44E-18	negative
ATG16L2	AC023906.5	0.417265547	3.13E-17	postive
CFLAR	SAP30L-AS1	0.424908803	7.15E-18	postive
ATG16L2	CR936218.1	0.560869814	1.87E-32	postive
ATG2B	CR936218.1	0.571397349	6.95E-34	postive
BIRC6	CR936218.1	0.524298769	7.22E-28	postive
DAPK1	CR936218.1	0.441048308	2.79E-19	postive
IKBKB	CR936218.1	0.488338078	7.21E-24	postive
PIK3R4	CR936218.1	0.43649352	7.09E-19	postive
TSC1	CR936218.1	0.575619815	1.80E-34	postive
DLC1	AC037198.2	0.647917542	5.13E-46	postive
IL24	AC037198.2	0.491624918	3.25E-24	postive
ITPR1	AC037198.2	0.464754579	1.72E-21	postive
ATG16L2	AC133550.3	0.405813276	2.67E-16	postive
BCL2	AC138207.5	0.418783569	2.34E-17	postive
CCR2	AC138207.5	0.453776019	1.91E-20	postive
CFLAR	AC138207.5	0.41781339	2.82E-17	postive
RAB24	AC011298.1	0.529584055	1.70E-28	postive
ATG16L2	AC011479.3	0.454515575	1.62E-20	postive
MAP1LC3	AC060766.5	0.443741299	1.60E-19	postive
EIF4EBP1	AP006545.2	0.503858879	1.55E-25	postive
FADD	AP003555.2	0.531978308	8.73E-29	postive
ARSB	AC124312.3	0.476123463	1.29E-22	postive
BCL2	AC124312.3	0.512596645	1.63E-26	postive
DLC1	AC124312.3	0.616386322	1.30E-40	postive
HSPB8	AC124312.3	0.658569962	5.46E-48	postive
ITPR1	AC124312.3	0.700157424	1.57E-56	postive
NRG2	AC124312.3	0.461526846	3.52E-21	postive
RAC1	AC124312.3	-0.400087133	7.57E-16	negative
ULK2	AC124312.3	0.502338775	2.27E-25	postive
MAP2K7	AC004540.2	0.551391492	3.27E-31	postive
MAPK8IP1	AC004540.2	0.697790202	5.27E-56	postive

PEX3	AC004540.2	0.566206369	3.57E-33	postive
CAPN10	OGFR-AS1	0.456066604	1.16E-20	postive
RAB24	OGFR-AS1	0.434597179	1.04E-18	postive
HSPB8	AC005034.5	0.405209212	2.99E-16	postive
ATG16L2	U73169.1	0.494980602	1.43E-24	postive
PEA15	THAP9-AS1	-0.415415541	4.45E-17	negative
HSP90AB1	AL035587.1	0.477174803	1.01E-22	postive
DLC1	AC025280.1	0.560947419	1.82E-32	postive
HSPB8	AC025280.1	0.522217103	1.27E-27	postive
ITPR1	AC025280.1	0.480611056	4.54E-23	postive
PELP1	AC091153.3	0.600919894	3.53E-38	postive
BECN1	SNHG6	-0.412941134	7.11E-17	negative
DDIT3	AGAP2-AS1	0.548101614	8.65E-31	postive
GRID1	HAGLROS	0.550812985	3.88E-31	postive
MAPK8IP1	HAGLROS	0.509384343	3.76E-26	postive
BCL2	MIR1-1HG-AS1	0.410089416	1.21E-16	postive
DLC1	MIR1-1HG-AS1	0.620059925	3.28E-41	postive
HSPB8	MIR1-1HG-AS1	0.882794854	1.90E-124	postive
ITPR1	MIR1-1HG-AS1	0.58531326	7.46E-36	postive
NRG2	MIR1-1HG-AS1	0.490841181	3.93E-24	postive
ULK2	MIR1-1HG-AS1	0.519354779	2.74E-27	postive
BCL2	TSPOAP1-AS1	0.622860648	1.13E-41	postive
CXCR4	TSPOAP1-AS1	0.495286403	1.32E-24	postive
ITPR1	TSPOAP1-AS1	0.408379515	1.66E-16	postive
RGS19	TSPOAP1-AS1	0.510617373	2.73E-26	postive
ATG16L2	AC012181.1	0.49371753	1.95E-24	postive
CFLAR	AC012181.1	0.452950055	2.28E-20	postive
EDEM1	AC012181.1	0.411786636	8.83E-17	postive
ARSB	MSC-AS1	0.565490058	4.47E-33	postive
BCL2	MSC-AS1	0.449946519	4.32E-20	postive
DLC1	MSC-AS1	0.535624782	3.14E-29	postive
ITPR1	MSC-AS1	0.508345539	4.91E-26	postive
PEA15	MSC-AS1	0.407921735	1.81E-16	postive
ATG16L2	AC005253.1	0.537285168	1.97E-29	postive
ATG16L2	ERVK13-1	0.646091972	1.10E-45	postive
ATG2B	ERVK13-1	0.459822766	5.12E-21	postive
BIRC6	ERVK13-1	0.42148603	1.39E-17	postive
TSC2	ERVK13-1	0.456964724	9.56E-21	postive
DIRAS3	MRPS30-DT	0.493310336	2.15E-24	postive
GRID1	MRPS30-DT	0.64312033	3.75E-45	postive
MAP1LC3	AC117490.2	0.426321757	5.42E-18	postive
ATG16L2	AC008115.3	0.489285804	5.73E-24	postive
CDKN1B	AC008115.3	0.536977199	2.14E-29	postive
TP63	FALEC	0.427350728	4.43E-18	postive

MAP1LC3	AC022960.1	0.446800891	8.41E-20	postive
MAP1LC3	AC027018.1	0.511613517	2.11E-26	postive
RAB24	AC138150.2	0.470796616	4.40E-22	postive
BCL2	AC090587.1	0.404763149	3.24E-16	postive
ATG16L2	AL022238.2	0.535723246	3.06E-29	postive
CFLAR	AL022238.2	0.427275587	4.49E-18	postive
ATG2B	AL031320.2	0.40748082	1.97E-16	postive
PEX3	AL031320.2	0.482223606	3.10E-23	postive
MAP1LC3	AC068025.2	0.41740193	3.05E-17	postive
P4HB	AL132639.2	0.402354893	5.02E-16	postive
ATG9B	SH3PXD2A-AS1	0.448310698	6.12E-20	postive
ATG16L2	AL049552.1	0.406062408	2.55E-16	postive
ATG2B	AL049552.1	0.514525068	9.84E-27	postive
BIRC6	AL049552.1	0.410122589	1.20E-16	postive
GOPC	AL049552.1	0.416254691	3.80E-17	postive
ATG16L2	LINC02273	0.418486114	2.48E-17	postive
BCL2	LINC02273	0.607364464	3.55E-39	postive
CXCR4	LINC02273	0.638720231	2.25E-44	postive
DLC1	ZNF667-AS1	0.474165954	2.03E-22	postive
GABARAP	ZNF667-AS1	0.508062412	5.28E-26	postive
HSPB8	ZNF667-AS1	0.54270876	4.16E-30	postive
ITPR1	ZNF667-AS1	0.481684124	3.52E-23	postive
PEA15	ZNF667-AS1	0.43600621	7.83E-19	postive
ATG16L2	AC009095.1	0.502775014	2.04E-25	postive
ATG16L2	AL031600.1	0.540949086	6.91E-30	postive
ATG2B	AL031600.1	0.421455644	1.40E-17	postive
BIRC6	AL031600.1	0.407408543	1.99E-16	postive
TSC1	AL031600.1	0.477771356	8.82E-23	postive
TSC2	AL031600.1	0.474105353	2.06E-22	postive
ARNT	LINC01128	0.401670062	5.69E-16	postive
ATG16L2	CEP250-AS1	0.465961745	1.31E-21	postive
BCL2	CEP250-AS1	0.554520787	1.28E-31	postive
CXCR4	CEP250-AS1	0.514401141	1.02E-26	postive
MAP1LC3	CEP250-AS1	0.506228948	8.46E-26	postive
RGS19	CEP250-AS1	0.478658302	7.17E-23	postive
DIRAS3	AC005076.1	0.436685247	6.82E-19	postive
GRID1	AC005076.1	0.615296315	1.95E-40	postive
ATG16L2	N4BP2L2-IT2	0.466960287	1.05E-21	postive
ATG2B	N4BP2L2-IT2	0.463652211	2.19E-21	postive
GOPC	N4BP2L2-IT2	0.423852473	8.79E-18	postive
TSC1	N4BP2L2-IT2	0.430726667	2.27E-18	postive
TSC1	AL358115.1	0.440868398	2.89E-19	postive
MAP1LC3	AC026803.1	0.407569495	1.93E-16	postive
CCR2	LINC02362	0.407230559	2.06E-16	postive

MAP1LC3	AC013553.3	0.420546836	1.67E-17	postive
ARSB	AC006059.1	0.453353245	2.09E-20	postive
ATIC	AC006059.1	-0.429328003	2.99E-18	negative
BCL2	AC006059.1	0.493994017	1.82E-24	postive
BIRC5	AC006059.1	-0.417571083	2.96E-17	negative
DLC1	AC006059.1	0.553489962	1.75E-31	postive
GABARAP	AC006059.1	0.472039798	3.31E-22	postive
HSPB8	AC006059.1	0.594311173	3.53E-37	postive
ITPR1	AC006059.1	0.630522624	5.87E-43	postive
NRG2	AC006059.1	0.447720217	6.93E-20	postive
ULK2	AC006059.1	0.478248153	7.89E-23	postive
ZFYVE1	AC006059.1	0.418255903	2.59E-17	postive
ATG16L2	USP3-AS1	0.541964665	5.16E-30	postive
TP63	DSG1-AS1	0.454178007	1.75E-20	postive
BECN1	AC073896.4	-0.477836372	8.69E-23	negative
HSPA8	AC073896.4	-0.453457116	2.04E-20	negative
RAC1	AC073896.4	0.401767571	5.59E-16	postive
ATG16L2	AC005332.7	0.4243139	8.04E-18	postive
BCL2	AC005332.7	0.402764826	4.66E-16	postive
CXCR4	AC005332.7	0.465692374	1.39E-21	postive
MAP1LC3	PRDX6-AS1	0.48602852	1.26E-23	postive
BCL2	AC104653.1	0.454798244	1.53E-20	postive
CXCR4	AC104653.1	0.489678002	5.21E-24	postive
MAP1LC3	AC104653.1	0.409371312	1.39E-16	postive
RGS19	AC104653.1	0.526542957	3.92E-28	postive
CTSB	AC105001.1	0.505118962	1.12E-25	postive
MAPK8IP1	ATP6V0E2-AS1	0.415469518	4.41E-17	postive
ATG16L2	AC138150.1	0.400579992	6.93E-16	postive
BIRC5	TYMSOS	0.439817589	3.59E-19	postive
ATG16L2	CTBP1-AS	0.617564638	8.38E-41	postive
ATG2B	CTBP1-AS	0.411239398	9.78E-17	postive
IKBKB	CTBP1-AS	0.491726138	3.17E-24	postive
TSC1	CTBP1-AS	0.431976315	1.77E-18	postive
ATG16L2	NARF-IT1	0.528942455	2.03E-28	postive
TSC1	NARF-IT1	0.464100519	1.99E-21	postive
ATIC	AC099850.3	0.428081704	3.83E-18	postive
BIRC5	AC099850.3	0.608157836	2.66E-39	postive
EIF4G1	AC099850.3	0.464624434	1.77E-21	postive
PARP1	AC099850.3	0.447192633	7.74E-20	postive
USP10	AC099850.3	0.503343361	1.76E-25	postive
ATG16L2	AC138393.2	0.409172343	1.44E-16	postive
ULK3	UBL7-AS1	0.459707727	5.25E-21	postive
IFNG	MMP25-AS1	0.408123764	1.75E-16	postive
CTSD	AL592148.3	-0.428553426	3.49E-18	negative

MLST8	AL592148.3	-0.444258828	1.43E-19	negative
ATG9B	AP002761.4	0.40273463	4.69E-16	postive
CAPN1	AP002761.4	0.424814535	7.29E-18	postive
TP63	AP002761.4	0.585806647	6.32E-36	postive
ARSB	CHROMR	0.480791348	4.35E-23	postive
BCL2	CHROMR	0.419091472	2.21E-17	postive
DLC1	CHROMR	0.419644453	1.99E-17	postive
ITPR1	CHROMR	0.522393517	1.21E-27	postive
MAP1LC3	ST3GAL6-AS1	0.407189297	2.07E-16	postive
ATG16L2	MIR600HG	0.499400369	4.76E-25	postive
BCL2	MIR600HG	0.505035944	1.15E-25	postive
TSC1	MIR600HG	0.521520738	1.53E-27	postive
ATG16L2	AC008569.2	0.582298493	2.03E-35	postive
BCL2	AC008569.2	0.473486533	2.38E-22	postive
CFLAR	AC008569.2	0.42341727	9.57E-18	postive
GRID1	AL022157.1	0.442607978	2.02E-19	postive
WIPI2	ZFAND2A-DT	0.529325221	1.82E-28	postive
RAB24	AC005540.1	0.543107484	3.71E-30	postive
ATG16L2	LINC00216	0.490299788	4.48E-24	postive
DLC1	MEG3	0.482097304	3.20E-23	postive
ITPR1	MEG3	0.417297224	3.11E-17	postive
ATG16L2	AL450344.2	0.45458031	1.60E-20	postive
MAP1LC3	AL450344.2	0.411839669	8.74E-17	postive
ARSB	AC018752.1	0.459134627	5.95E-21	postive
ATG2B	AC018752.1	0.465647889	1.41E-21	postive
BCL2	AC018752.1	0.452663088	2.42E-20	postive
CAPNS1	AC018752.1	-0.41017194	1.19E-16	negative
DLC1	AC018752.1	0.525545004	5.14E-28	postive
HSPB8	AC018752.1	0.430034909	2.60E-18	postive
ITPR1	AC018752.1	0.595323272	2.49E-37	postive
ULK2	AC018752.1	0.471862517	3.45E-22	postive
WDFY3	AC018752.1	0.452678449	2.41E-20	postive
ARSB	MAP3K4-AS1	0.406443961	2.38E-16	postive
PEA15	MAP3K4-AS1	0.424517821	7.72E-18	postive
MAP1LC3	AC121247.1	0.421516956	1.38E-17	postive
TSC1	AC107068.1	0.428989054	3.20E-18	postive
ATG2B	LINC02035	0.400928788	6.50E-16	postive
BIRC6	LINC02035	0.424909386	7.15E-18	postive
ITPR1	LINC02035	0.405547375	2.81E-16	postive
KLHL24	LINC02035	0.589973355	1.55E-36	postive
NBR1	LINC02035	0.409360436	1.39E-16	postive
PIK3R4	LINC02035	0.400495685	7.03E-16	postive
TSC1	LINC02035	0.415257316	4.59E-17	postive
ULK2	LINC02035	0.428430299	3.58E-18	postive

WDFY3	LINC02035	0.467105843	1.01E-21	postive
ITPR1	SNHG15	-0.408369313	1.67E-16	negative
ZFYVE1	SNHG15	-0.410371722	1.15E-16	negative
ATG16L2	AC020978.3	0.430580089	2.33E-18	postive
ATG16L2	AL360181.2	0.599047966	6.81E-38	postive
ATG2B	AL360181.2	0.405747851	2.70E-16	postive
BIRC6	AL360181.2	0.42615384	5.60E-18	postive
IKBKB	AL360181.2	0.42639608	5.34E-18	postive
TSC1	AL360181.2	0.459976147	4.95E-21	postive
ARSB	AC087286.2	0.54779075	9.48E-31	postive
ATIC	AC087286.2	-0.400239249	7.37E-16	negative
BCL2	AC087286.2	0.417655495	2.91E-17	postive
BIRC5	AC087286.2	-0.464936071	1.65E-21	negative
CFLAR	AC087286.2	0.429292714	3.01E-18	postive
DLC1	AC087286.2	0.613938775	3.22E-40	postive
GABARAP	AC087286.2	0.405714799	2.72E-16	postive
ITPR1	AC087286.2	0.555992634	8.24E-32	postive
ULK2	AC087286.2	0.414816679	4.99E-17	postive
ZFYVE1	AC087286.2	0.406059682	2.55E-16	postive
MAP1LC3	AL356481.2	0.4313023	2.02E-18	postive
HSPA8	AC090559.2	-0.41259024	7.59E-17	negative
ATG16L2	AC034102.6	0.435402926	8.85E-19	postive
ATG16L2	LINC00926	0.55887192	3.44E-32	postive
BCL2	LINC00926	0.643412568	3.32E-45	postive
CXCR4	LINC00926	0.665174172	2.97E-49	postive
ITPR1	LINC00926	0.415139041	4.69E-17	postive
MAP1LC3	LINC00926	0.409662917	1.31E-16	postive
ATG2B	AC093110.1	0.480391811	4.78E-23	postive
BIRC6	AC093110.1	0.427474562	4.32E-18	postive
TSC1	AC093110.1	0.424944182	7.11E-18	postive
MAP1LC3	AC018462.1	0.507708456	5.79E-26	postive
ARSB	AC010478.1	0.470112524	5.14E-22	postive
BCL2	AC010478.1	0.480143664	5.06E-23	postive
DLC1	AC010478.1	0.632794023	2.40E-43	postive
GABARAP	AC010478.1	0.420251996	1.77E-17	postive
HDAC1	AC010478.1	-0.401967537	5.39E-16	negative
HSPA5	AC010478.1	-0.42030253	1.75E-17	negative
HSPB8	AC010478.1	0.712791352	2.00E-59	postive
ITPR1	AC010478.1	0.656549686	1.31E-47	postive
NRG2	AC010478.1	0.439327454	3.98E-19	postive
PEA15	AC010478.1	0.483516513	2.28E-23	postive
ULK2	AC010478.1	0.516984446	5.14E-27	postive
ZFYVE1	AC010478.1	0.405350705	2.91E-16	postive
BCL2	AC119396.1	0.445678566	1.06E-19	postive

CXCR4	AC119396.1	0.442529664	2.05E-19	postive
GAPDH	BACH1-IT1	-0.410920194	1.04E-16	negative
MLST8	BACH1-IT1	-0.418691393	2.39E-17	negative
MAP1LC3	AL391095.3	0.434373868	1.09E-18	postive
MAP2K7	AL137058.2	0.422638308	1.11E-17	postive
MAPK8IP1	AL137058.2	0.505764491	9.53E-26	postive
CAPN10	AL121906.2	0.402234941	5.13E-16	postive
ATG16L2	LINC01089	0.486787041	1.05E-23	postive
PARP1	LINC02542	0.66567759	2.37E-49	postive
RGS19	LINC02542	0.76972137	1.05E-74	postive
ARSB	AC090877.2	0.57593356	1.62E-34	postive
DLC1	AC090877.2	0.520023387	2.29E-27	postive
HSPB8	AC090877.2	0.40290208	4.55E-16	postive
ITPR1	AC090877.2	0.47884364	6.87E-23	postive
PEA15	AC090877.2	0.454824311	1.52E-20	postive
ULK1	ARHGAP31-AS1	0.459986092	4.94E-21	postive
WIPI2	AC092171.2	0.443734951	1.60E-19	postive
ATG16L2	ITGB2-AS1	0.424781203	7.34E-18	postive
BCL2	ITGB2-AS1	0.456908505	9.67E-21	postive
CXCR4	ITGB2-AS1	0.520715754	1.90E-27	postive
PARP1	ITGB2-AS1	0.418051161	2.70E-17	postive
RGS19	ITGB2-AS1	0.67974157	3.68E-52	postive
P4HB	AGBL5-IT1	-0.433147135	1.40E-18	negative
RHEB	LINC01003	0.412508111	7.71E-17	postive
ATG16L2	AC007390.1	0.501700679	2.67E-25	postive
ATG2B	AC007390.1	0.42448233	7.78E-18	postive
BIRC6	AC007390.1	0.438391982	4.82E-19	postive
TSC1	AC007390.1	0.458803589	6.40E-21	postive
ARSB	CNN3-DT	0.520575488	1.97E-27	postive
DLC1	CNN3-DT	0.519192337	2.86E-27	postive
HSPB8	CNN3-DT	0.643452108	3.27E-45	postive
ITPR1	CNN3-DT	0.510359985	2.92E-26	postive
PEA15	CNN3-DT	0.47197664	3.36E-22	postive
ULK2	CNN3-DT	0.437604193	5.66E-19	postive
IFNG	LINC02154	0.423361755	9.68E-18	postive
RGS19	AC131011.1	0.439764707	3.63E-19	postive
ATG16L2	AL135818.1	0.440910806	2.87E-19	postive
BCL2	AL135818.1	0.493284053	2.16E-24	postive
CCR2	AL135818.1	0.546207061	1.51E-30	postive
CFLAR	AL135818.1	0.535593935	3.17E-29	postive
CXCR4	AL135818.1	0.429348285	2.98E-18	postive
FAS	AL135818.1	0.474601919	1.84E-22	postive
NLRC4	AL135818.1	0.498778244	5.56E-25	postive
RGS19	AL135818.1	0.456860697	9.78E-21	postive

ARSB	AC106739.1	0.40905423	1.47E-16	postive
PINK1	AC106739.1	0.408927466	1.50E-16	postive
SPNS1	AC106739.1	0.411083176	1.01E-16	postive
ATG16L2	FAF1-AS1	0.403831392	3.84E-16	postive
ATG16L2	AL132989.1	0.630999957	4.87E-43	postive
ATG2B	AL132989.1	0.559138442	3.17E-32	postive
BCL2	AL132989.1	0.420634783	1.64E-17	postive
BIRC6	AL132989.1	0.428109468	3.81E-18	postive
CFLAR	AL132989.1	0.498353565	6.18E-25	postive
IKBKB	AL132989.1	0.443309628	1.75E-19	postive
MLST8	AL132989.1	-0.412902655	7.16E-17	negative
TSC1	AL132989.1	0.495027668	1.41E-24	postive
ATG16L2	AC104564.1	0.408975611	1.49E-16	postive
MAP1LC3	AC104564.1	0.400047917	7.62E-16	postive
MAP2K7	AC004854.2	0.424508794	7.74E-18	postive
WIPI2	AC004854.2	0.408215581	1.72E-16	postive
TSC1	AL359091.3	0.432032424	1.75E-18	postive
ATG5	PVT1	0.495359518	1.30E-24	postive
MYC	PVT1	0.506037636	8.88E-26	postive
ATG16L2	AC092375.2	0.402542442	4.86E-16	postive
BCL2	SENCR	0.513605617	1.25E-26	postive
CCL2	SENCR	0.477233768	1.00E-22	postive
CCR2	SENCR	0.497361332	7.91E-25	postive
CXCR4	SENCR	0.475335812	1.55E-22	postive
DLC1	SENCR	0.450858058	3.56E-20	postive
ITPR1	SENCR	0.531460705	1.01E-28	postive
MAP1LC3	SENCR	0.415442928	4.43E-17	postive
PEA15	SENCR	0.509261035	3.88E-26	postive
GRID1	AC007566.1	0.401766834	5.59E-16	postive
CASP4	LINC02195	0.472876901	2.73E-22	postive
CX3CL1	LINC02195	0.623028706	1.06E-41	postive
IFNG	LINC02195	0.657524176	8.59E-48	postive
TNFSF10	LINC02195	0.538573046	1.36E-29	postive
BAG3	AC021739.2	0.48281675	2.70E-23	postive
ATG16L2	AL031775.2	0.459654992	5.31E-21	postive
GRID1	AC087239.1	0.465060078	1.60E-21	postive
DLC1	LINC01096	0.434657779	1.03E-18	postive
HSPB8	LINC01096	0.430792073	2.24E-18	postive
GRID1	PRKAR1B-AS1	0.494069024	1.79E-24	postive
PARP1	PRKAR1B-AS1	0.45679197	9.92E-21	postive
RGS19	PRKAR1B-AS1	0.624717303	5.58E-42	postive
CAPN10	PANK2-AS1	0.487619481	8.57E-24	postive
CX3CL1	AC007991.2	0.537495221	1.85E-29	postive
BIRC5	AL133355.1	-0.403651741	3.97E-16	negative

ITPR1	AL133355.1	0.4081694	1.73E-16	postive
ATG16L2	AL023653.1	0.527011403	3.45E-28	postive
BCL2	AL023653.1	0.580020829	4.29E-35	postive
CFLAR	AL023653.1	0.410829202	1.06E-16	postive
CXCR4	AL023653.1	0.553716278	1.63E-31	postive
MAP1LC3	AL023653.1	0.471151524	4.06E-22	postive
ATG16L2	U62631.1	0.503767307	1.58E-25	postive
BCL2	U62631.1	0.562801976	1.03E-32	postive
CXCR4	U62631.1	0.53772522	1.73E-29	postive
DLC1	AC005180.1	0.473162116	2.56E-22	postive
HSPB8	AC005180.1	0.738414499	8.32E-66	postive
ITPR1	AC005180.1	0.561068878	1.76E-32	postive
NRG2	AC005180.1	0.45520735	1.40E-20	postive
ULK2	AC005180.1	0.408061865	1.77E-16	postive
DLC1	AC002398.2	0.618779928	5.31E-41	postive
GABARAP	AC002398.2	0.46845903	7.47E-22	postive
HDAC1	AC002398.2	-0.418980737	2.26E-17	negative
HSPB8	AC002398.2	0.841116196	1.35E-101	postive
ITPR1	AC002398.2	0.592146814	7.41E-37	postive
NRG2	AC002398.2	0.469938932	5.34E-22	postive
PEA15	AC002398.2	0.435412407	8.83E-19	postive
ULK2	AC002398.2	0.491765549	3.14E-24	postive
ATG16L2	AC137932.1	0.568353083	1.82E-33	postive
ATG2B	AC137932.1	0.469700419	5.64E-22	postive
TSC1	AC137932.1	0.442090856	2.25E-19	postive
GABARAP	NAPA-AS1	0.414945964	4.87E-17	postive
MAP1LC3	TMED2-DT	0.421770306	1.32E-17	postive
BCL2	AC090044.1	0.482662474	2.80E-23	postive
DLC1	AC090044.1	0.532815466	6.92E-29	postive
HSPB8	AC090044.1	0.649380552	2.78E-46	postive
ITPR1	AC090044.1	0.636224247	6.13E-44	postive
NRG2	AC090044.1	0.481725949	3.49E-23	postive
ULK2	AC090044.1	0.465345275	1.50E-21	postive
ATG16L2	AC090948.1	0.603115715	1.62E-38	postive
BCL2	AC090948.1	0.587742077	3.30E-36	postive
CFLAR	AC090948.1	0.505083864	1.13E-25	postive
CXCR4	AC090948.1	0.50651174	7.87E-26	postive
ITPR1	AC090948.1	0.457807957	7.95E-21	postive
PARP1	LINC02416	0.41345598	6.45E-17	postive
RGS19	LINC02416	0.526410931	4.06E-28	postive
ARSB	AL139220.2	0.450399599	3.93E-20	postive
DLC1	AL139220.2	0.551604791	3.07E-31	postive
GABARAP	AL139220.2	0.40606675	2.55E-16	postive
HSPB8	AL139220.2	0.555495318	9.57E-32	postive

ITGB1	AL139220.2	0.416076932	3.93E-17	postive
ITPR1	AL139220.2	0.517328735	4.69E-27	postive
ULK2	AL139220.2	0.419931417	1.88E-17	postive
HSPA8	AC134407.1	-0.412336503	7.96E-17	negative
ATG16L2	LINC00106	0.407729717	1.88E-16	postive
RAB24	LINC00106	0.431818589	1.82E-18	postive
DLC1	AC093702.1	0.552662413	2.24E-31	postive
HSPB8	AC093702.1	0.674480513	4.31E-51	postive
PEA15	AC093702.1	0.426542154	5.19E-18	postive
ULK2	AC093702.1	0.417081794	3.24E-17	postive
ATG16L2	DHDDS-AS1	0.571285739	7.20E-34	postive
BCL2	DHDDS-AS1	0.424337375	8.00E-18	postive
MAP1LC3	DHDDS-AS1	0.419033616	2.23E-17	postive
ULK1	AL161729.1	0.433094355	1.41E-18	postive
ATG12	AC008906.1	0.425114671	6.87E-18	postive
ATG16L2	AC008906.1	0.402878811	4.57E-16	postive
CFLAR	AC008906.1	0.424858442	7.23E-18	postive
ATG16L2	AL021707.8	0.582302479	2.03E-35	postive
CFLAR	AL021707.8	0.464798108	1.70E-21	postive
MAP1LC3	AC022182.2	0.540592932	7.65E-30	postive
ATG16L2	AC007533.1	0.453949725	1.84E-20	postive
ATG16L2	AC025917.1	0.679744272	3.67E-52	postive
ATG2B	AC025917.1	0.51558856	7.43E-27	postive
BCL2	AC025917.1	0.510139475	3.09E-26	postive
BIRC6	AC025917.1	0.483619701	2.23E-23	postive
CFLAR	AC025917.1	0.529924474	1.54E-28	postive
EDEM1	AC025917.1	0.417420611	3.04E-17	postive
IKBKB	AC025917.1	0.459893172	5.04E-21	postive
ITPR1	AC025917.1	0.4555871	1.29E-20	postive
TSC1	AC025917.1	0.430619219	2.32E-18	postive
ARSB	AC131097.3	0.418167673	2.64E-17	postive
GRID1	AC131097.3	0.432654242	1.54E-18	postive
ATG16L2	AC009690.2	0.438134926	5.08E-19	postive
ATG16L2	MIR155HG	0.437779792	5.46E-19	postive
BCL2	MIR155HG	0.410492299	1.12E-16	postive
CXCR4	MIR155HG	0.463849066	2.10E-21	postive
MAP1LC3	MIR155HG	0.442193783	2.20E-19	postive
ATG16L2	GHRLOS	0.439847674	3.57E-19	postive
MAP1LC3	MRPS9-AS1	0.406611536	2.31E-16	postive
CAPN10	AC084125.2	0.416705934	3.49E-17	postive
HSPB8	LOH12CR2	0.41550308	4.38E-17	postive
HIF1A	CFAP58-DT	0.436005655	7.83E-19	postive
TP63	CFAP58-DT	0.407974249	1.79E-16	postive
ATG16L2	AL078581.4	0.433424322	1.32E-18	postive

ATIC	OGFRP1	0.400641112	6.85E-16	postive
EIF4G1	OGFRP1	0.41445841	5.34E-17	postive
TSC1	MCM3AP-AS1	0.483375698	2.36E-23	postive
ATG16L2	LINC01772	0.491694439	3.19E-24	postive
CFLAR	LINC01772	0.421389464	1.42E-17	postive
GAPDH	LINC01772	-0.426110449	5.65E-18	negative
P4HB	LINC01772	-0.441701919	2.44E-19	negative
ATG4B	AC010973.2	0.457253566	8.97E-21	postive
CAPN10	AC010973.2	0.426055218	5.71E-18	postive
GRID1	AC092794.1	0.509631356	3.53E-26	postive
PINK1	AP000866.6	-0.402540225	4.86E-16	negative
MAP1LC3	LINC01251	0.41644255	3.67E-17	postive
ATG16L2	AC078778.1	0.43553451	8.62E-19	postive
ATG16L2	AC011462.4	0.411489454	9.33E-17	postive
TSC1	AC011462.4	0.411108121	1.00E-16	postive
ATG16L2	AL049840.4	0.476978682	1.06E-22	postive
ATG2B	AL049840.4	0.455514773	1.31E-20	postive
BIRC6	AL049840.4	0.443214537	1.78E-19	postive
TSC2	AL049840.4	0.428124799	3.80E-18	postive
HSP90AB1	LINC02441	0.41145711	9.39E-17	postive
MAP2K7	AC092720.1	0.452131941	2.71E-20	postive
MLST8	AC092720.1	0.436778364	6.69E-19	postive
SPNS1	AC092720.1	0.439988915	3.47E-19	postive
ATG16L2	AC007496.1	0.482055403	3.23E-23	postive
CFLAR	AC007496.1	0.410338626	1.16E-16	postive
ATG5	Z98200.1	0.441000035	2.82E-19	postive
FOXO3	Z98200.1	0.413874303	5.96E-17	postive
FADD	AP000487.1	0.599293688	6.25E-38	postive
MAPK8IP1	AP000487.1	0.430586678	2.33E-18	postive
ARSB	AC080038.1	0.435697667	8.34E-19	postive
DLC1	AC080038.1	0.51430013	1.04E-26	postive
GABARAP	AC080038.1	0.421816059	1.31E-17	postive
ITPR1	AC080038.1	0.466466513	1.17E-21	postive
PEA15	AC080038.1	0.421978748	1.27E-17	postive
ULK2	AC080038.1	0.402536125	4.86E-16	postive
ATG16L2	AC009087.1	0.426561591	5.17E-18	postive
BCL2	LINC00092	0.614453768	2.66E-40	postive
CXCR4	LINC00092	0.532545581	7.46E-29	postive
ITPR1	LINC00092	0.585364881	7.33E-36	postive
MAP1LC3	LINC00092	0.427103359	4.65E-18	postive
NRG2	LINC00092	0.419636865	1.99E-17	postive
ARSB	LINC02256	0.466028599	1.29E-21	postive
BCL2	LINC02256	0.544173454	2.72E-30	postive
BIRC5	LINC02256	-0.414061547	5.75E-17	negative

DLC1	LINC02256	0.523311178	9.44E-28	postive
HSPA5	LINC02256	-0.420184596	1.79E-17	negative
HSPB8	LINC02256	0.589962697	1.56E-36	postive
ITPR1	LINC02256	0.651767816	1.01E-46	postive
NRG2	LINC02256	0.416751118	3.46E-17	postive
ULK2	LINC02256	0.445593067	1.08E-19	postive
ARSB	AP003071.3	0.453655379	1.96E-20	postive
BCL2	AP003071.3	0.446379908	9.19E-20	postive
DLC1	AP003071.3	0.706441227	5.97E-58	postive
GABARAP	AP003071.3	0.450231796	4.07E-20	postive
HDAC1	AP003071.3	-0.437064796	6.31E-19	negative
HSPA5	AP003071.3	-0.410055197	1.22E-16	negative
HSPB8	AP003071.3	0.877094747	7.63E-121	postive
ITGB1	AP003071.3	0.458613542	6.67E-21	postive
ITPR1	AP003071.3	0.667043836	1.28E-49	postive
NRG2	AP003071.3	0.47843935	7.55E-23	postive
PEA15	AP003071.3	0.518302694	3.62E-27	postive
PINK1	AP003071.3	0.439768509	3.63E-19	postive
ULK2	AP003071.3	0.531388201	1.03E-28	postive
ZFYVE1	AP003071.3	0.413522585	6.37E-17	postive
ATG16L2	BET1-AS1	0.41967103	1.98E-17	postive
ATG16L2	AC114760.2	0.597715994	1.08E-37	postive
BCL2	AC114760.2	0.620837159	2.45E-41	postive
CFLAR	AC114760.2	0.497054863	8.54E-25	postive
CXCR4	AC114760.2	0.610422439	1.17E-39	postive
ITPR1	AC114760.2	0.416546041	3.59E-17	postive
ARSB	THBS4-AS1	0.455851287	1.22E-20	postive
BCL2	THBS4-AS1	0.47237755	3.06E-22	postive
DLC1	THBS4-AS1	0.529194435	1.89E-28	postive
HSPB8	THBS4-AS1	0.413484222	6.42E-17	postive
ITPR1	THBS4-AS1	0.578267435	7.61E-35	postive
MAP1LC3	THBS4-AS1	0.413505313	6.39E-17	postive
PEA15	THBS4-AS1	0.407657653	1.90E-16	postive
MAPK8IP1	DNAJC3-DT	0.474297097	1.97E-22	postive
ATG16L2	AC015871.3	0.430154568	2.54E-18	postive
GABARAP	AC015922.3	0.420666088	1.63E-17	postive
ATG16L2	HLA-DQB1-AS1	0.455753123	1.24E-20	postive
CXCR4	HLA-DQB1-AS1	0.511178703	2.36E-26	postive
ITGA3	SEPTIN9-DT	0.405927589	2.62E-16	postive
ATG4B	AC007383.1	0.401427584	5.94E-16	postive
CAPN10	AC007383.1	0.448534222	5.83E-20	postive
RAC1	AC004130.2	0.417198444	3.17E-17	postive
ATG16L2	AC004908.2	0.451729943	2.96E-20	postive
IKKBK	AC004908.2	0.456147176	1.14E-20	postive

TSC1	AC004908.2	0.402169684	5.20E-16	postive
KLHL24	MUC20-OT1	0.455508551	1.31E-20	postive
BCL2	AF001548.1	0.404866246	3.18E-16	postive
DLC1	AF001548.1	0.656076275	1.61E-47	postive
GABARAP	AF001548.1	0.400993393	6.43E-16	postive
HSPB8	AF001548.1	0.86559214	4.33E-114	postive
ITGB1	AF001548.1	0.444982712	1.23E-19	postive
ITPR1	AF001548.1	0.607836573	2.99E-39	postive
NRG2	AF001548.1	0.466990857	1.04E-21	postive
PEA15	AF001548.1	0.419062409	2.22E-17	postive
ULK2	AF001548.1	0.514184315	1.08E-26	postive
CCR2	LINC00582	0.462002076	3.16E-21	postive
PINK1	AL731577.2	0.481940223	3.32E-23	postive
GAPDH	AC107375.1	-0.408618158	1.59E-16	negative
DLC1	SAP30-DT	0.457450986	8.60E-21	postive
HSPB8	SAP30-DT	0.688968771	4.32E-54	postive
ITPR1	SAP30-DT	0.461172123	3.80E-21	postive
NRG2	SAP30-DT	0.415102205	4.73E-17	postive
CTSB	C8orf49	0.533563071	5.61E-29	postive
FOXO3	AL359711.2	0.425304535	6.62E-18	postive
DLC1	AC012085.2	0.408886714	1.52E-16	postive
HSPB8	AC012085.2	0.603293127	1.52E-38	postive
ITPR1	AC012085.2	0.42448124	7.78E-18	postive
ATG16L2	AC093788.1	0.445659548	1.07E-19	postive
PINK1	AC093788.1	-0.435699587	8.33E-19	negative
ATG16L2	NFYC-AS1	0.521985012	1.35E-27	postive
BIRC6	NFYC-AS1	0.408287736	1.69E-16	postive
TSC1	NFYC-AS1	0.420584769	1.66E-17	postive
BAK1	AC013403.2	-0.406233819	2.47E-16	negative
BCL2	AC013403.2	0.415946771	4.03E-17	postive
DLC1	AC013403.2	0.407286267	2.04E-16	postive
HSPB8	AC013403.2	0.551337374	3.32E-31	postive
ITPR1	AC013403.2	0.472525923	2.96E-22	postive
P4HB	AC013403.2	-0.475467316	1.51E-22	negative
ULK2	AC013403.2	0.406759037	2.25E-16	postive
ATG16L2	AC004466.3	0.43207823	1.73E-18	postive
PRKCQ	PRKCQ-AS1	0.748494315	1.58E-68	postive
ARSB	LINC01081	0.459434932	5.57E-21	postive
BCL2	LINC01081	0.436101158	7.68E-19	postive
DLC1	LINC01081	0.631268073	4.38E-43	postive
GABARAP	LINC01081	0.470594249	4.60E-22	postive
HDAC1	LINC01081	-0.407594447	1.93E-16	negative
HSPA5	LINC01081	-0.405729311	2.71E-16	negative
HSPB8	LINC01081	0.776937659	5.89E-77	postive

ITPR1	LINC01081	0.612497521	5.48E-40	postive
NRG2	LINC01081	0.435682275	8.36E-19	postive
PEA15	LINC01081	0.431667891	1.88E-18	postive
PINK1	LINC01081	0.402876362	4.57E-16	postive
ULK2	LINC01081	0.462621697	2.76E-21	postive
DLC1	AC004637.1	0.544376624	2.57E-30	postive
GABARAP	AC004637.1	0.40939157	1.38E-16	postive
HSPB8	AC004637.1	0.688839566	4.60E-54	postive
ITPR1	AC004637.1	0.522307779	1.24E-27	postive
NRG2	AC004637.1	0.451051835	3.42E-20	postive
ULK2	AC004637.1	0.503723382	1.60E-25	postive
ATG16L2	AC144548.1	0.401305363	6.08E-16	postive
TSC1	AC144548.1	0.451950514	2.82E-20	postive
CDKN2A	AC243964.3	0.414669282	5.13E-17	postive
IL24	AC005776.2	0.417098969	3.23E-17	postive
DLC1	AC005180.2	0.44284413	1.92E-19	postive
HSPB8	AC005180.2	0.746605693	5.24E-68	postive
ITPR1	AC005180.2	0.541708814	5.55E-30	postive
NRG2	AC005180.2	0.471932709	3.39E-22	postive
ATG16L2	FAM30A	0.576152346	1.51E-34	postive
BCL2	FAM30A	0.658074378	6.77E-48	postive
CCR2	FAM30A	0.440074693	3.41E-19	postive
CFLAR	FAM30A	0.407723044	1.88E-16	postive
CXCR4	FAM30A	0.677034182	1.31E-51	postive
ITPR1	FAM30A	0.453922178	1.85E-20	postive
MAP1LC3	FAM30A	0.410788942	1.06E-16	postive
ATG16L2	AC104564.3	0.463630063	2.21E-21	postive
ATG2B	AC234775.2	0.455070284	1.44E-20	postive
DLC1	AC234775.2	0.431010693	2.14E-18	postive
KLHL24	AC234775.2	0.418124793	2.66E-17	postive
ULK2	AC234775.2	0.440278896	3.27E-19	postive
WDFY3	AC234775.2	0.440168443	3.34E-19	postive
ATG16L2	C1orf220	0.457235944	9.01E-21	postive
GABARAP	PITPNA-AS1	0.428233986	3.72E-18	postive
ATG16L2	LINC01215	0.548760333	7.12E-31	postive
BCL2	LINC01215	0.663381843	6.59E-49	postive
CXCR4	LINC01215	0.67761695	1.00E-51	postive
ITPR1	LINC01215	0.435315687	9.01E-19	postive
ATG16L2	AL450263.1	0.459325605	5.71E-21	postive
ATG2B	AL450263.1	0.467172924	9.99E-22	postive
BIRC6	AL450263.1	0.510671653	2.69E-26	postive
KLHL24	AL450263.1	0.412197486	8.17E-17	postive
TSC1	AL450263.1	0.520350966	2.10E-27	postive
DIRAS3	GIHCG	0.459374931	5.64E-21	postive

GABARAP	GIHCG	0.456626226	1.03E-20	postive
GRID1	GIHCG	0.499480867	4.66E-25	postive
HSPB8	GIHCG	0.428269459	3.69E-18	postive
NRG2	GIHCG	0.490406742	4.37E-24	postive
PEA15	GIHCG	0.416053655	3.95E-17	postive
CX3CL1	AC007991.4	0.551714296	2.97E-31	postive
IFNG	AC007991.4	0.412138431	8.26E-17	postive
HSPA8	AC007036.2	-0.407468874	1.97E-16	negative
CCL2	AL583785.1	0.404876059	3.17E-16	postive
DLC1	AL583785.1	0.546140098	1.54E-30	postive
ITPR1	AL583785.1	0.436039261	7.78E-19	postive
PEA15	AL583785.1	0.407517456	1.95E-16	postive
SIRT1	AC026368.1	0.456816127	9.87E-21	postive
ATG16L2	AC006017.1	0.538157329	1.53E-29	postive
ATG2B	AC006017.1	0.407839274	1.84E-16	postive
DLC1	AC009549.1	0.507358561	6.33E-26	postive
GABARAP	AC009549.1	0.438476206	4.73E-19	postive
HSPB8	AC009549.1	0.732301597	3.23E-64	postive
ITGB1	AC009549.1	0.518879213	3.11E-27	postive
ITPR1	AC009549.1	0.472084371	3.28E-22	postive
PEA15	AC009549.1	0.49512417	1.38E-24	postive
PINK1	AC009549.1	0.403395151	4.16E-16	postive
ULK2	AC009549.1	0.408718958	1.56E-16	postive
ATG16L2	HCG25	0.41730851	3.11E-17	postive
ATG16L2	AL513327.1	0.438757222	4.47E-19	postive
ATG2B	AL513327.1	0.525618554	5.04E-28	postive
GOPC	AL513327.1	0.401487292	5.88E-16	postive
HIF1A	AL513327.1	0.411929637	8.59E-17	postive
IL24	AL513327.1	0.428750702	3.36E-18	postive
TSC1	AL513327.1	0.456735804	1.00E-20	postive
BAX	AC005256.1	0.41683344	3.40E-17	postive
TSC1	AC093752.2	0.448809448	5.50E-20	postive
DLC1	PCAT19	0.493329945	2.14E-24	postive
GABARAP	PCAT19	0.403089407	4.40E-16	postive
PINK1	SNHG12	-0.410128102	1.20E-16	negative
ATG16L2	SDCBP2-AS1	0.411721801	8.93E-17	postive
WIPI2	AC093627.5	0.477428229	9.55E-23	postive
BCL2	ZNF236-DT	0.425016089	7.01E-18	postive
MAPK8IP1	AC007128.2	0.509387795	3.75E-26	postive
PEX3	AC007128.2	0.402838939	4.60E-16	postive
WIPI2	AC007128.2	0.408312364	1.69E-16	postive
ATG16L2	AL158163.1	0.522282012	1.25E-27	postive
GAPDH	AL158163.1	-0.44419385	1.45E-19	negative
MLST8	AL158163.1	-0.401445131	5.92E-16	negative

P4HB	AL158163.1	-0.401547871	5.82E-16	negative
KLHL24	AC107027.3	0.431283446	2.03E-18	postive
PIK3R4	AC107027.3	0.445114283	1.20E-19	postive
ARNT	AC242426.2	0.478385582	7.64E-23	postive
CAPN10	ZNRD2-AS1	0.433729258	1.24E-18	postive
IKBKB	AC105206.2	0.417821341	2.82E-17	postive
CDKN2A	TDRKH-AS1	0.446448847	9.06E-20	postive
ATG16L2	AL031717.1	0.577679591	9.22E-35	postive
CFLAR	AL031717.1	0.459043904	6.07E-21	postive
TSC2	AL031717.1	0.458702865	6.54E-21	postive
CAPN10	AC116025.2	0.431149972	2.08E-18	postive
PINK1	AL354696.1	-0.410089093	1.21E-16	negative
MAP1LC3	DIP2A-IT1	0.471024476	4.17E-22	postive
ULK2	U91328.1	0.417456511	3.02E-17	postive
ARNT	AC108449.2	0.451131231	3.36E-20	postive
ATG2B	AC108449.2	0.510585931	2.75E-26	postive
BIRC6	AC108449.2	0.511068196	2.43E-26	postive
IKBKB	AC108449.2	0.53803418	1.59E-29	postive
MTOR	AC108449.2	0.432903582	1.47E-18	postive
PIK3C3	AC108449.2	0.435623535	8.46E-19	postive
RAF1	AC108449.2	0.4018562	5.50E-16	postive
TSC1	AC108449.2	0.460197418	4.71E-21	postive
WDFY3	AC108449.2	0.499395661	4.76E-25	postive
GRID1	SOCS2-AS1	0.503271058	1.80E-25	postive
FADD	AL096828.1	0.427481664	4.31E-18	postive
MAP2K7	AL096828.1	0.56486034	5.44E-33	postive
MAPK8IP1	AL096828.1	0.676952833	1.36E-51	postive
PEX3	AL096828.1	0.614607769	2.52E-40	postive
MAP1LC3	TTC39C-AS1	0.567223261	2.60E-33	postive
DLC1	AC022034.1	0.475915359	1.36E-22	postive
HSPB8	AC022034.1	0.552814027	2.14E-31	postive
ITPR1	AC022034.1	0.527541998	2.98E-28	postive
FOXO3	ARMC2-AS1	0.517236737	4.81E-27	postive
HSPB8	RGMB-AS1	0.463252041	2.40E-21	postive
ATG16L2	LINC02576	0.516849251	5.33E-27	postive
BCL2	LINC02576	0.53532177	3.42E-29	postive
CXCR4	LINC02576	0.548397571	7.93E-31	postive
MAP1LC3	LINC02576	0.531218805	1.08E-28	postive
MAP2K7	AC079807.1	0.418481784	2.48E-17	postive
RELA	AC079807.1	0.409165923	1.44E-16	postive
SPNS1	AC079807.1	0.423966094	8.60E-18	postive
ATG16L2	GARS1-DT	0.511268748	2.31E-26	postive
CFLAR	GARS1-DT	0.406010074	2.58E-16	postive
ATG16L2	CHRM3-AS2	0.553407328	1.79E-31	postive

BCL2	CHRM3-AS2	0.534821639	3.94E-29	postive
CFLAR	CHRM3-AS2	0.415186486	4.65E-17	postive
CXCR4	CHRM3-AS2	0.552634891	2.26E-31	postive
ARSB	AL136084.2	0.524169946	7.48E-28	postive
BCL2	AL136084.2	0.414369715	5.43E-17	postive
DLC1	AL136084.2	0.686750637	1.28E-53	postive
HSPB8	AL136084.2	0.742344322	7.49E-67	postive
ITGB1	AL136084.2	0.443568428	1.65E-19	postive
ITPR1	AL136084.2	0.596266967	1.79E-37	postive
PEA15	AL136084.2	0.551467545	3.20E-31	postive
PINK1	AL136084.2	0.486575579	1.10E-23	postive
ULK2	AL136084.2	0.416650659	3.52E-17	postive
ZFYVE1	AL136084.2	0.401762464	5.59E-16	postive
GRID1	AC136475.1	0.401896755	5.46E-16	postive
ATG16L2	AC010260.1	0.441940499	2.32E-19	postive
ATG16L2	AC138932.4	0.418945664	2.27E-17	postive
ATG16L2	AL606834.2	0.44644681	9.06E-20	postive
BCL2	AL606834.2	0.483626387	2.23E-23	postive
CXCR4	AL606834.2	0.423659688	9.13E-18	postive
HIF1A	AP001434.1	0.406946044	2.17E-16	postive
IL24	AP001434.1	0.694273403	3.11E-55	postive
SPHK1	AP001434.1	0.411085848	1.01E-16	postive
AMBRA1	AC073046.1	0.401202624	6.19E-16	postive
ATG2A	AC073046.1	0.457178295	9.12E-21	postive
EIF4G1	AC073046.1	0.497134001	8.37E-25	postive
HGS	AC073046.1	0.415412791	4.46E-17	postive
RPTOR	AC073046.1	0.422853658	1.07E-17	postive
SPNS1	AC073046.1	0.458412755	6.97E-21	postive
HIF1A	RHOQ-AS1	0.409579376	1.33E-16	postive
IL24	RHOQ-AS1	0.800535177	5.88E-85	postive
WIPI1	RHOQ-AS1	0.432743769	1.51E-18	postive
ATG16L2	AC243960.1	0.536503794	2.45E-29	postive
BCL2	AC243960.1	0.666500491	1.64E-49	postive
CCR2	AC243960.1	0.43029835	2.47E-18	postive
CFLAR	AC243960.1	0.433885875	1.20E-18	postive
CXCR4	AC243960.1	0.705338136	1.07E-57	postive
ITPR1	AC243960.1	0.435652036	8.41E-19	postive
MAP1LC3	AC243960.1	0.464874572	1.67E-21	postive
DLC1	LINC01778	0.532489233	7.57E-29	postive
HSPB8	LINC01778	0.795209898	4.64E-83	postive
ITPR1	LINC01778	0.446900685	8.24E-20	postive
NRG2	LINC01778	0.43343723	1.32E-18	postive
PEA15	LINC01778	0.443715937	1.60E-19	postive
ULK2	LINC01778	0.412139849	8.26E-17	postive

ATG16L2	AL359962.2	0.419320014	2.11E-17	postive
BCL2	AL359962.2	0.400589606	6.91E-16	postive
CXCR4	AL359962.2	0.41363	6.24E-17	postive
ATG16L2	LINC00861	0.592133716	7.45E-37	postive
BCL2	LINC00861	0.667776775	9.23E-50	postive
CCR2	LINC00861	0.407708291	1.89E-16	postive
CFLAR	LINC00861	0.433672857	1.26E-18	postive
CXCR4	LINC00861	0.667503923	1.04E-49	postive
ITPR1	LINC00861	0.441758954	2.41E-19	postive
MAP1LC3	LINC00861	0.416340133	3.74E-17	postive
ATG16L2	AP000763.3	0.4614457	3.58E-21	postive
BCL2	AC022706.1	0.421388861	1.42E-17	postive
CCR2	AC022706.1	0.453331322	2.10E-20	postive
CXCR4	AC022706.1	0.56203908	1.30E-32	postive
GABARAP	AC022706.1	0.403619776	3.99E-16	postive
ATG16L2	C3orf35	0.403278836	4.25E-16	postive
ARSB	AP001189.3	0.637162289	4.21E-44	postive
BCL2	AP001189.3	0.440683431	3.01E-19	postive
DLC1	AP001189.3	0.616833817	1.10E-40	postive
ITPR1	AP001189.3	0.558403053	3.97E-32	postive
PEA15	AP001189.3	0.46851031	7.39E-22	postive
PINK1	AP001189.3	0.42079232	1.59E-17	postive
ZFYVE1	AP001189.3	0.470718984	4.48E-22	postive
ATG16L2	TMEM161B-AS1	0.405546894	2.81E-16	postive
GRID1	CACNA1C-AS2	0.45054562	3.81E-20	postive
MAP2K7	AL391244.1	0.437570947	5.69E-19	postive
MAPK8IP1	AL391244.1	0.648373431	4.24E-46	postive
ATG16L2	AC027097.2	0.564711857	5.69E-33	postive
BCL2	AC027097.2	0.621374622	2.00E-41	postive
CXCR4	AC027097.2	0.529380316	1.80E-28	postive
ITPR1	AC027097.2	0.454007709	1.81E-20	postive
MAP1LC3	AC027097.2	0.458439194	6.93E-21	postive
DIRAS3	AC004803.1	0.426874501	4.86E-18	postive
HSPB8	AC004803.1	0.426507223	5.23E-18	postive
ARSB	IGFBP7-AS1	0.485671305	1.37E-23	postive
BCL2	IGFBP7-AS1	0.433751056	1.24E-18	postive
DLC1	IGFBP7-AS1	0.575353683	1.96E-34	postive
GABARAP	IGFBP7-AS1	0.429004227	3.19E-18	postive
HSPB8	IGFBP7-AS1	0.500384912	3.72E-25	postive
ITPR1	IGFBP7-AS1	0.531806736	9.16E-29	postive
PEA15	IGFBP7-AS1	0.570844287	8.29E-34	postive
PARP1	AP000593.3	0.462343532	2.93E-21	postive
RGS19	AP000593.3	0.427864187	4.00E-18	postive
BCL2	AC124312.2	0.408023191	1.78E-16	postive

DLC1	AC124312.2	0.412469095	7.77E-17	postive
HSPB8	AC124312.2	0.492363374	2.71E-24	postive
ITPR1	AC124312.2	0.528330975	2.40E-28	postive
ATG16L2	AC093726.2	0.444187212	1.45E-19	postive
HSPA8	AC002558.3	-0.43278667	1.50E-18	negative
DLC1	AC026355.2	0.479338092	6.12E-23	postive
HSPB8	AC026355.2	0.489026144	6.10E-24	postive
ITGB1	AC026355.2	0.451890496	2.86E-20	postive
ATG16L2	AP003170.3	0.417831131	2.81E-17	postive
ATG16L2	AL157786.1	0.406366664	2.41E-16	postive
BIRC6	AL157786.1	0.411502706	9.31E-17	postive
ARSB	AL353593.1	0.465452406	1.47E-21	postive
DLC1	AL353593.1	0.422653688	1.11E-17	postive
ITPR1	AL353593.1	0.46998219	5.29E-22	postive
ATG16L2	AC073517.1	0.408752076	1.55E-16	postive
BIRC5	AC012073.1	0.433449947	1.31E-18	postive
CAPN10	AC012073.1	0.409395147	1.38E-16	postive
PELP1	AC012073.1	0.423523255	9.38E-18	postive
PIK3C3	AC011815.1	0.413611285	6.26E-17	postive
CXCR4	AC243960.3	0.409152582	1.44E-16	postive
FAS	AC243960.3	0.452687335	2.41E-20	postive
IFNG	AC243960.3	0.487183482	9.51E-24	postive
NLR4	AC243960.3	0.460467657	4.44E-21	postive
ATG16L2	AC018926.3	0.425605729	6.24E-18	postive
MAP1LC3	AC008870.4	0.403544152	4.05E-16	postive
ATG16L2	AC018926.1	0.568633754	1.67E-33	postive
BCL2	AC018926.1	0.45423525	1.73E-20	postive
CFLAR	AC018926.1	0.480468384	4.69E-23	postive
ATG16L2	AP000873.3	0.482977646	2.60E-23	postive
ATG16L2	AL158207.2	0.468002052	8.28E-22	postive
BCL2	AL158207.2	0.509236549	3.90E-26	postive
CFLAR	AL158207.2	0.424003362	8.54E-18	postive
CXCR4	AL158207.2	0.453024665	2.24E-20	postive
ITPR1	AL158207.2	0.47654117	1.17E-22	postive
ATG16L2	RAD51-AS1	0.551863295	2.84E-31	postive
GAPDH	RAD51-AS1	-0.402627685	4.78E-16	negative
IKBKB	RAD51-AS1	0.403729469	3.91E-16	postive
MAP1LC3	LIX1L-AS1	0.544229829	2.68E-30	postive
BCL2	AC079921.2	0.501817331	2.59E-25	postive
CFLAR	AC079921.2	0.466554657	1.15E-21	postive
DLC1	AC079921.2	0.480596376	4.55E-23	postive
HSPB8	AC079921.2	0.495869297	1.15E-24	postive
ITPR1	AC079921.2	0.559023031	3.28E-32	postive
ATG16L2	AC092301.1	0.40648022	2.36E-16	postive

ATG16L2	AC026470.2	0.406651402	2.29E-16	postive
BIRC6	AC026470.2	0.438719546	4.50E-19	postive
BCL2	OSTN-AS1	0.441087075	2.77E-19	postive
CXCR4	OSTN-AS1	0.561456919	1.56E-32	postive
MAP1LC3	OSTN-AS1	0.6015129	2.86E-38	postive
BCL2	AC015819.1	0.543551229	3.26E-30	postive
CCR2	AC015819.1	0.45929455	5.75E-21	postive
CXCR4	AC015819.1	0.584870485	8.64E-36	postive
DLC1	LINC01579	0.46922115	6.29E-22	postive
GABARAP	LINC01579	0.481154633	3.99E-23	postive
HSPB8	LINC01579	0.622777593	1.17E-41	postive
TSC1	AL160006.1	0.424050076	8.46E-18	postive
IFNG	BANCR	0.411464364	9.38E-17	postive
ATG16L2	AL450344.3	0.402185788	5.18E-16	postive
ATG16L2	AL035448.1	0.406420519	2.39E-16	postive
ATG2B	AL035448.1	0.429552039	2.86E-18	postive
EIF4EBP1	AC087623.2	0.42251272	1.14E-17	postive
ATIC	VPS9D1-AS1	0.407847218	1.84E-16	postive
BIRC5	VPS9D1-AS1	0.424483615	7.77E-18	postive
USP10	VPS9D1-AS1	0.416347705	3.73E-17	postive
DLC1	LINC01638	0.457410296	8.67E-21	postive
MAP1LC3	LINC01638	0.445250492	1.16E-19	postive
PEA15	LINC01638	0.520395465	2.07E-27	postive
ATG16L2	SEC62-AS1	0.522419249	1.20E-27	postive
BCL2	SEC62-AS1	0.414269057	5.53E-17	postive
CFLAR	SEC62-AS1	0.414843927	4.96E-17	postive
ATG16L2	AC009120.2	0.5842862	1.05E-35	postive
CFLAR	AC009120.2	0.467533889	9.21E-22	postive
IKBKB	AC009120.2	0.411142972	9.96E-17	postive
P4HB	AC009120.2	-0.426075658	5.69E-18	negative
DLC1	SERTAD4-AS1	0.516865172	5.30E-27	postive
GABARAP	SERTAD4-AS1	0.554369547	1.34E-31	postive
HDAC1	SERTAD4-AS1	-0.411411856	9.47E-17	negative
HSPB8	SERTAD4-AS1	0.770662513	5.42E-75	postive
ITPR1	SERTAD4-AS1	0.440233364	3.30E-19	postive
NRG2	SERTAD4-AS1	0.463380154	2.33E-21	postive
PEA15	SERTAD4-AS1	0.468769554	6.97E-22	postive
ULK2	SERTAD4-AS1	0.4149826	4.84E-17	postive
DIRAS3	TP53TG1	0.410159813	1.20E-16	postive
GRID1	TP53TG1	0.546390627	1.43E-30	postive
DLC1	LINC00702	0.459840112	5.10E-21	postive
HSPB8	LINC00702	0.685802168	2.02E-53	postive
ITGB1	LINC00702	0.447139445	7.83E-20	postive
ITPR1	LINC00702	0.409327401	1.40E-16	postive

HSPA8	AC002558.2	-0.412566446	7.63E-17	negative
ATG16L2	AL928654.2	0.471171578	4.04E-22	postive
ATG2B	AL928654.2	0.439137978	4.13E-19	postive
TSC1	AL928654.2	0.462681089	2.72E-21	postive
DLC1	AC079313.1	0.518609162	3.34E-27	postive
HSPB8	AC079313.1	0.547652698	9.87E-31	postive
ITGB1	AC079313.1	0.427942776	3.94E-18	postive
ITPR1	AC079313.1	0.431425586	1.97E-18	postive
ATG16L2	WAKMAR2	0.426302856	5.44E-18	postive
BCL2	WAKMAR2	0.459974085	4.95E-21	postive
CFLAR	WAKMAR2	0.493881082	1.87E-24	postive
CXCR4	WAKMAR2	0.453925235	1.85E-20	postive
MAP1LC3	WAKMAR2	0.404833716	3.20E-16	postive
DLC1	AL513217.1	0.584871221	8.64E-36	postive
GABARAP	AL513217.1	0.421064831	1.51E-17	postive
HSPB8	AL513217.1	0.873453528	1.24E-118	postive
ITPR1	AL513217.1	0.572300593	5.21E-34	postive
NRG2	AL513217.1	0.509822816	3.35E-26	postive
ULK2	AL513217.1	0.512252731	1.78E-26	postive
NLRC4	AC112721.2	0.422195423	1.21E-17	postive
HDAC6	RNF157-AS1	0.405795935	2.68E-16	postive
ATG16L2	AC005070.3	0.403973965	3.74E-16	postive
BCL2	BNC2-AS1	0.406223867	2.48E-16	postive
DLC1	BNC2-AS1	0.597872481	1.03E-37	postive
GABARAP	BNC2-AS1	0.504083262	1.46E-25	postive
HDAC1	BNC2-AS1	-0.413559464	6.33E-17	negative
HSPB8	BNC2-AS1	0.606481524	4.87E-39	postive
ITPR1	BNC2-AS1	0.531926982	8.86E-29	postive
PEA15	BNC2-AS1	0.50986431	3.32E-26	postive
PRKCD	BNC2-AS1	-0.407129201	2.10E-16	negative
ULK2	BNC2-AS1	0.431970421	1.77E-18	postive
ATG16L2	AC092338.1	0.480436111	4.73E-23	postive
FAS	AL157394.1	0.829148183	3.09E-96	postive
ATG16L2	AC048341.1	0.433023181	1.43E-18	postive
RB1CC1	AF117829.1	0.426233054	5.52E-18	postive
NPC1	AC090912.3	0.466754198	1.10E-21	postive
ATG16L2	AL355916.2	0.600459229	4.15E-38	postive
ATG2B	AL355916.2	0.405566149	2.80E-16	postive
BCL2	AL355916.2	0.545661672	1.77E-30	postive
BIRC6	AL355916.2	0.411162167	9.92E-17	postive
CCR2	AL355916.2	0.433801066	1.22E-18	postive
CFLAR	AL355916.2	0.544416664	2.54E-30	postive
CXCR4	AL355916.2	0.4791025	6.46E-23	postive
IKKBK	AL355916.2	0.401171698	6.23E-16	postive

ITPR1	AL355916.2	0.542409655	4.54E-30	postive
BIRC5	LINC02575	0.426849562	4.89E-18	postive
P4HB	AL356481.1	-0.453051855	2.23E-20	negative
ATG2B	AL121772.3	0.421811471	1.31E-17	postive
ATG16L2	AL606534.1	0.474925026	1.71E-22	postive
CASP4	LINC02446	0.427242865	4.52E-18	postive
CX3CL1	LINC02446	0.569524079	1.26E-33	postive
FAS	LINC02446	0.441980635	2.30E-19	postive
IFNG	LINC02446	0.834690738	1.15E-98	postive
TNFSF10	LINC02446	0.493274506	2.17E-24	postive
ATG16L2	LINC01781	0.48485529	1.66E-23	postive
BCL2	LINC01781	0.656564941	1.30E-47	postive
CXCR4	LINC01781	0.636010705	6.68E-44	postive
ITPR1	LINC01781	0.446159865	9.62E-20	postive
FADD	AL354766.2	0.44172753	2.42E-19	postive
MAP2K7	AL354766.2	0.576281425	1.45E-34	postive
MAPK8IP1	AL354766.2	0.670342377	2.88E-50	postive
PEX3	AL354766.2	0.60942436	1.68E-39	postive
TP73	AL354766.2	0.409203969	1.43E-16	postive
ATG4B	CAPN10-DT	0.576710036	1.26E-34	postive
CAPN10	CAPN10-DT	0.606567354	4.73E-39	postive
CTSB	AC069185.1	0.789198508	5.51E-81	postive
ATG16L2	AC015971.1	0.488719455	6.57E-24	postive
ATG2B	AC015971.1	0.496044767	1.10E-24	postive
BIRC6	AC015971.1	0.569733357	1.18E-33	postive
CFLAR	AC015971.1	0.421958665	1.27E-17	postive
TSC1	AC015971.1	0.413390518	6.53E-17	postive
ATG16L2	AC009120.3	0.581065907	3.05E-35	postive
CFLAR	AC009120.3	0.485351392	1.48E-23	postive
GAPDH	AC009120.3	-0.406952357	2.17E-16	negative
IKBKB	AC009120.3	0.433612225	1.27E-18	postive
TSC2	AC009120.3	0.422190768	1.21E-17	postive
TP63	AC010735.2	0.403321744	4.21E-16	postive
EEF2	SNHG29	0.510278032	2.98E-26	postive
ATG16L2	AC004067.1	0.498164808	6.48E-25	postive
ATG16L2	AL137779.1	0.493151648	2.24E-24	postive
BCL2	AL137779.1	0.487991437	7.83E-24	postive
CFLAR	AL137779.1	0.416325618	3.75E-17	postive
CXCR4	AL137779.1	0.553795639	1.60E-31	postive
MAP1LC3	AL137779.1	0.472958064	2.68E-22	postive
TSC1	AP000442.1	0.45079754	3.61E-20	postive
ATG16L2	AC055855.1	0.525083559	5.83E-28	postive
MAP1LC3	HID1-AS1	0.476631324	1.15E-22	postive
BCL2	AC009126.1	0.427117248	4.64E-18	postive

HSPB8	AC009126.1	0.463238772	2.41E-21	postive
NRG2	AC009126.1	0.420793707	1.59E-17	postive
ATG16L2	AC005785.1	0.482774054	2.72E-23	postive
ATG16L2	AL450998.2	0.613198059	4.23E-40	postive
ATG2B	AL450998.2	0.448134497	6.35E-20	postive
CFLAR	AL450998.2	0.421064118	1.51E-17	postive
IKBKB	AL450998.2	0.4431239	1.81E-19	postive
TSC1	AL450998.2	0.484152449	1.96E-23	postive
EIF4G1	AC135507.1	-0.472784877	2.79E-22	negative
DDIT3	LINCR-0001	0.481373401	3.79E-23	postive
MLST8	NRAV	0.416188772	3.85E-17	postive
HSPB8	GACAT2	0.412769169	7.34E-17	postive
MAPK8IP1	AC013652.1	0.403979419	3.74E-16	postive
MAP1LC3	AC135050.3	0.437959465	5.26E-19	postive
HSPA8	AC006141.1	-0.417199856	3.17E-17	negative
ATG16L2	AP001107.4	0.45587319	1.21E-20	postive
PEA15	AC093484.4	-0.42054526	1.67E-17	negative
ATG16L2	AL513190.1	0.445106747	1.20E-19	postive
HSPB8	AP001065.3	0.537778216	1.71E-29	postive
ATF6	AL162595.1	0.402072127	5.29E-16	postive
ATG16L2	RNF213-AS1	0.486783548	1.05E-23	postive
CFLAR	RNF213-AS1	0.437722696	5.52E-19	postive
IKBKB	RNF213-AS1	0.400908358	6.53E-16	postive
BCL2	AL596244.1	0.408662832	1.58E-16	postive
DLC1	AL596244.1	0.565907236	3.92E-33	postive
HSPB8	AL596244.1	0.712996181	1.79E-59	postive
ITPR1	AL596244.1	0.557093606	5.90E-32	postive
NRG2	AL596244.1	0.414291085	5.51E-17	postive
ULK2	AL596244.1	0.485846489	1.31E-23	postive
RB1CC1	AC090186.1	0.426522353	5.21E-18	postive
ATG16L2	AC068790.4	0.436798466	6.67E-19	postive
ITGA3	AC245041.2	0.467738084	8.79E-22	postive
PINK1	AL390728.5	-0.45680707	9.89E-21	negative
WIPI2	AC092171.5	0.451065831	3.41E-20	postive
ATG16L2	LINC00894	0.462493743	2.84E-21	postive
BAK1	GNG12-AS1	-0.423208193	9.97E-18	negative
BIRC5	GNG12-AS1	-0.403951325	3.76E-16	negative
DLC1	GNG12-AS1	0.585705063	6.54E-36	postive
HSPB8	GNG12-AS1	0.638464207	2.49E-44	postive
ITPR1	GNG12-AS1	0.541064186	6.68E-30	postive
P4HB	GNG12-AS1	-0.401105833	6.30E-16	negative
ULK2	GNG12-AS1	0.510970005	2.49E-26	postive
MAP1LC3	AC027575.2	0.414321968	5.48E-17	postive
RAC1	AC015912.3	0.434965931	9.67E-19	postive

CX3CL1	AL139352.1	0.467524599	9.23E-22	postive
IFNG	AL139352.1	0.420518595	1.68E-17	postive
MAP1LC3	AC005332.1	0.440932022	2.86E-19	postive
BAX	AC027307.2	0.424480127	7.78E-18	postive
RAB24	FOXO6-AS1	0.468645356	7.16E-22	postive
BCL2	ZNF582-AS1	0.466210883	1.24E-21	postive
CXCR4	ZNF582-AS1	0.441507816	2.54E-19	postive
DLC1	ZNF582-AS1	0.488506759	6.92E-24	postive
GABARAP	ZNF582-AS1	0.463732389	2.16E-21	postive
HSPB8	ZNF582-AS1	0.588678346	2.41E-36	postive
ITPR1	ZNF582-AS1	0.574077409	2.95E-34	postive
MAP1LC3	ZNF582-AS1	0.41004549	1.22E-16	postive
NRG2	ZNF582-AS1	0.45027709	4.03E-20	postive
PEA15	ZNF582-AS1	0.452854147	2.32E-20	postive
ATG16L2	AL512791.1	0.451639064	3.01E-20	postive
ATG2B	AL512791.1	0.443687066	1.61E-19	postive
MLST8	AL512791.1	-0.405647124	2.76E-16	negative
ATG16L2	YEATS2-AS1	0.514598875	9.65E-27	postive
ATG2B	YEATS2-AS1	0.424927196	7.13E-18	postive
IKBKB	YEATS2-AS1	0.444901057	1.25E-19	postive
KLHL24	YEATS2-AS1	0.444353183	1.40E-19	postive
RPS6KB1	YEATS2-AS1	0.427756223	4.09E-18	postive
TSC1	YEATS2-AS1	0.47608433	1.31E-22	postive
ATG16L2	AC008770.3	0.476389651	1.22E-22	postive
BCL2	AC008770.3	0.423891354	8.73E-18	postive
CFLAR	AC008770.3	0.449832411	4.43E-20	postive
GABARAP	AC008669.1	0.408395052	1.66E-16	postive
NRG2	AC008669.1	0.439743137	3.65E-19	postive
BCL2	AC104971.3	0.52518134	5.68E-28	postive
CXCR4	AC104971.3	0.651118821	1.34E-46	postive
MAP1LC3	AC104971.3	0.512347829	1.74E-26	postive
ATG16L2	AC114730.3	0.484818638	1.68E-23	postive
ATG4B	AC114730.3	0.448512558	5.86E-20	postive
IKBKB	AC114730.3	0.440034677	3.44E-19	postive
TSC1	AC114730.3	0.415970799	4.01E-17	postive
GOPC	AL161891.1	0.435864323	8.06E-19	postive
MAPK8IP1	AL161891.1	0.41537806	4.49E-17	postive
PEX3	AL161891.1	0.411100758	1.00E-16	postive
ATG16L2	LINC01126	0.449161122	5.11E-20	postive
BIRC6	LINC01126	0.416208597	3.83E-17	postive
ATG16L2	AL355488.1	0.425637128	6.20E-18	postive
GOPC	AL355488.1	0.405728247	2.71E-16	postive
CDKN2A	AL606970.1	0.421762457	1.32E-17	postive
MAPK8IP1	AL606970.1	0.448676726	5.66E-20	postive

ATG16L2	LIMS1-AS1	0.489887671	4.95E-24	postive
ATG2B	LIMS1-AS1	0.414089288	5.72E-17	postive
CFLAR	LIMS1-AS1	0.414835656	4.97E-17	postive
MAP1LC3	LIMS1-AS1	0.451276003	3.26E-20	postive
NLRC4	LIMS1-AS1	0.421610761	1.36E-17	postive
PARP1	SERPINB9P1	0.490743288	4.02E-24	postive
RGS19	SERPINB9P1	0.726480398	9.61E-63	postive
RAB24	UICLM	0.444697586	1.31E-19	postive
ATG16L2	AC127024.6	0.428876989	3.27E-18	postive
ATG16L2	AL133243.3	0.442585257	2.03E-19	postive
GAPDH	AL133243.3	-0.410360944	1.15E-16	negative
P4HB	AL133243.3	-0.41869774	2.38E-17	negative
ATG16L2	AP005131.4	0.531416099	1.02E-28	postive
BCL2	AP005131.4	0.556406902	7.27E-32	postive
ITPR1	AP005131.4	0.507395968	6.27E-26	postive
TSC2	AP005131.4	0.436367406	7.28E-19	postive
ATG16L2	AP001893.1	0.501191331	3.04E-25	postive
TSC1	AP001893.1	0.436405958	7.22E-19	postive
ATG16L2	AL138787.2	0.487228616	9.41E-24	postive
BIRC5	UBAC2-AS1	0.416389285	3.70E-17	postive
ATG16L2	CCDC18-AS1	0.617964098	7.21E-41	postive
ATG16L2	AL049840.5	0.510302663	2.96E-26	postive
ATG2B	AL049840.5	0.502063805	2.44E-25	postive
IKBKB	AL049840.5	0.407101006	2.11E-16	postive
TSC1	AL049840.5	0.447150911	7.81E-20	postive
BCL2	AC007569.1	0.417251074	3.14E-17	postive
CCR2	AC007569.1	0.568395499	1.80E-33	postive
CFLAR	AC007569.1	0.451995025	2.79E-20	postive
CXCR4	AC007569.1	0.564333333	6.40E-33	postive
NLRC4	AC007569.1	0.410072113	1.22E-16	postive
BIRC5	AC004943.2	0.429665193	2.80E-18	postive
USP10	AC004943.2	0.42824702	3.71E-18	postive
RAB24	KCNQ1OT1	0.415145487	4.69E-17	postive
MAPK8IP1	AC004034.1	0.423160791	1.01E-17	postive
GAPDH	AC019205.1	-0.41354525	6.34E-17	negative
UVRAG	AC019205.1	0.437261134	6.07E-19	postive
ATG16L2	AL162586.1	0.438166624	5.04E-19	postive
GAPDH	AL162586.1	-0.41640721	3.69E-17	negative
TSC1	AL162586.1	0.457992007	7.64E-21	postive
SPNS1	AP001527.2	0.412166549	8.22E-17	postive
ARSB	MAGI2-AS3	0.589876318	1.61E-36	postive
ATG4D	MAGI2-AS3	-0.406492381	2.36E-16	negative
ATIC	MAGI2-AS3	-0.492862711	2.40E-24	negative
BAK1	MAGI2-AS3	-0.402390431	4.99E-16	negative

BCL2	MAGI2-AS3	0.524162064	7.49E-28	postive
BIRC5	MAGI2-AS3	-0.514375098	1.02E-26	negative
DLC1	MAGI2-AS3	0.818732969	6.69E-92	postive
GABARAP	MAGI2-AS3	0.573564903	3.48E-34	postive
HDAC1	MAGI2-AS3	-0.495069901	1.40E-24	negative
HSPA5	MAGI2-AS3	-0.412154846	8.24E-17	negative
HSPB8	MAGI2-AS3	0.669156944	4.94E-50	postive
ITGB1	MAGI2-AS3	0.498463418	6.01E-25	postive
ITPR1	MAGI2-AS3	0.753378145	6.83E-70	postive
NRG2	MAGI2-AS3	0.416570027	3.58E-17	postive
P4HB	MAGI2-AS3	-0.406528708	2.34E-16	negative
PEA15	MAGI2-AS3	0.524485095	6.87E-28	postive
ULK2	MAGI2-AS3	0.577532522	9.67E-35	postive
ZFYVE1	MAGI2-AS3	0.464409442	1.85E-21	postive
GRID1	AC100803.3	0.418586664	2.43E-17	postive
TSC1	AL513327.2	0.451096572	3.38E-20	postive
BCL2	AL158212.3	0.423227241	9.93E-18	postive
ITPR1	AL158212.3	0.474572505	1.85E-22	postive
TSC1	AL158212.3	0.41427822	5.52E-17	postive
ATG16L2	AC084018.1	0.582210054	2.09E-35	postive
BCL2	AC084018.1	0.425740163	6.08E-18	postive
CFLAR	AC084018.1	0.424417072	7.88E-18	postive
IKBKB	AC084018.1	0.407188293	2.08E-16	postive
TSC1	AC084018.1	0.468714766	7.05E-22	postive
CDKN2A	AC080129.2	0.429268874	3.03E-18	postive
ATG16L2	ECE1-AS1	0.553199069	1.91E-31	postive
BCL2	ECE1-AS1	0.598068422	9.59E-38	postive
CFLAR	ECE1-AS1	0.403494517	4.08E-16	postive
CXCR4	ECE1-AS1	0.50569475	9.70E-26	postive
ITPR1	ECE1-AS1	0.467833293	8.61E-22	postive
MAP1LC3	ECE1-AS1	0.43566259	8.40E-19	postive
ATG16L2	AC007216.4	0.406497365	2.36E-16	postive
ATG16L2	AL359921.1	0.429323252	3.00E-18	postive
MAP1LC3	AC136469.1	0.491412125	3.42E-24	postive
ATG16L2	AP000692.1	0.456236066	1.12E-20	postive
ATG16L2	AC138028.4	0.440985389	2.83E-19	postive
TSC1	AC138028.4	0.429263362	3.03E-18	postive
ATG16L2	IGBP1-AS1	0.438815304	4.42E-19	postive
PEX14	AC096536.2	0.405747264	2.71E-16	postive
ATG16L2	RERE-AS1	0.480725918	4.42E-23	postive
ATG7	FGD5-AS1	0.440326187	3.24E-19	postive
NCKAP1	FGD5-AS1	0.498360228	6.17E-25	postive
PIK3C3	FGD5-AS1	0.411136916	9.97E-17	postive
RAF1	FGD5-AS1	0.637257851	4.05E-44	postive

MAPK8IP1	AC002401.3	0.413789255	6.06E-17	postive
ATG16L2	AC007686.3	0.455933652	1.20E-20	postive
BCL2	AC007686.3	0.501702029	2.67E-25	postive
ITPR1	AC007686.3	0.443976886	1.52E-19	postive
MAP1LC3	AC007686.3	0.409730291	1.30E-16	postive
ATG16L2	AL590609.2	0.426292494	5.45E-18	postive
BCL2	AL590609.2	0.529477476	1.75E-28	postive
CXCR4	AL590609.2	0.494951753	1.44E-24	postive
SPHK1	C10orf55	0.482497539	2.91E-23	postive
ATG16L2	LINC00426	0.503953932	1.51E-25	postive
BCL2	LINC00426	0.680996208	2.03E-52	postive
CCR2	LINC00426	0.464649869	1.76E-21	postive
CFLAR	LINC00426	0.486945678	1.01E-23	postive
CXCR4	LINC00426	0.60309429	1.63E-38	postive
ITPR1	LINC00426	0.462405244	2.89E-21	postive
MAP1LC3	LINC00426	0.535607163	3.16E-29	postive
NLRC4	LINC00426	0.404464319	3.42E-16	postive
RGS19	LINC00426	0.435686483	8.36E-19	postive
BECN1	AC103769.1	-0.400522717	7.00E-16	negative
MAPK3	AC020663.2	0.507228985	6.55E-26	postive
TP63	AL031058.1	0.411508046	9.30E-17	postive
TP63	LINC02560	0.56353275	8.21E-33	postive
BCL2	AC008537.2	0.400945335	6.48E-16	postive
CFLAR	AC008537.2	0.41204059	8.42E-17	postive
ITPR1	AC008537.2	0.460843647	4.09E-21	postive
BIRC6	DNMBP-AS1	0.429283917	3.02E-18	postive
ARSB	FENDRR	0.471870338	3.44E-22	postive
ATIC	FENDRR	-0.43094562	2.17E-18	negative
BCL2	FENDRR	0.419338482	2.11E-17	postive
BIRC5	FENDRR	-0.411824841	8.76E-17	negative
DLC1	FENDRR	0.755421487	1.79E-70	postive
GABARAP	FENDRR	0.504215611	1.41E-25	postive
HDAC1	FENDRR	-0.443601731	1.64E-19	negative
HSPB8	FENDRR	0.829674048	1.83E-96	postive
ITGB1	FENDRR	0.449674849	4.58E-20	postive
ITPR1	FENDRR	0.708340277	2.18E-58	postive
NRG2	FENDRR	0.454671451	1.57E-20	postive
PEA15	FENDRR	0.43561023	8.49E-19	postive
TP53INP2	FENDRR	0.432906261	1.46E-18	postive
ULK2	FENDRR	0.52344612	9.10E-28	postive
ZFYVE1	FENDRR	0.426136535	5.62E-18	postive
ULK2	TMEM9B-AS1	0.429532928	2.87E-18	postive
BCL2	TPM1-AS	0.403326595	4.21E-16	postive
DLC1	TPM1-AS	0.504983693	1.16E-25	postive

HSPB8	TPM1-AS	0.573555832	3.49E-34	postive
ITPR1	TPM1-AS	0.496194284	1.06E-24	postive
ATG16L2	AC066613.1	0.475223283	1.59E-22	postive
ATG2B	AC066613.1	0.421248972	1.46E-17	postive
SERPINA1	LINC01767	0.435359616	8.93E-19	postive
TSC1	SPAG5-AS1	0.424537829	7.69E-18	postive
MAP1LC3	AL138895.1	0.427559283	4.25E-18	postive
ATG16L2	ALOX12-AS1	0.413786458	6.06E-17	postive
CCR2	AC083862.1	0.433790643	1.23E-18	postive
CFLAR	AC083862.1	0.50824379	5.04E-26	postive
CX3CL1	AC083862.1	0.444517969	1.36E-19	postive
TNFSF10	AC083862.1	0.4723221	3.10E-22	postive
RHEB	AC005229.3	0.404299427	3.53E-16	postive
CAPN10	AC074117.1	0.439712023	3.67E-19	postive
HDAC6	AC074117.1	0.418722463	2.37E-17	postive
BAG1	B4GALT1-AS1	0.486749399	1.06E-23	postive
ARSB	A1BG-AS1	0.402685038	4.73E-16	postive
BCL2	A1BG-AS1	0.446647835	8.68E-20	postive
CXCR4	A1BG-AS1	0.452694404	2.40E-20	postive
ITPR1	A1BG-AS1	0.412879171	7.19E-17	postive
RGS19	A1BG-AS1	0.466569306	1.14E-21	postive
GRID1	H1-10-AS1	0.433880338	1.20E-18	postive
MAPK8IP1	H1-10-AS1	0.630818574	5.22E-43	postive
ATG3	AC083799.1	0.400272315	7.32E-16	postive
RAB7A	AC083799.1	0.43163863	1.89E-18	postive
ARSB	ADAMTS9-AS2	0.414505633	5.29E-17	postive
ATIC	ADAMTS9-AS2	-0.410076982	1.21E-16	negative
BCL2	ADAMTS9-AS2	0.495895986	1.14E-24	postive
BIRC5	ADAMTS9-AS2	-0.430916459	2.18E-18	negative
DLC1	ADAMTS9-AS2	0.67144442	1.74E-50	postive
GABARAP	ADAMTS9-AS2	0.464746499	1.72E-21	postive
HDAC1	ADAMTS9-AS2	-0.422684216	1.10E-17	negative
HSPA5	ADAMTS9-AS2	-0.445826502	1.03E-19	negative
HSPB8	ADAMTS9-AS2	0.811802679	3.62E-89	postive
ITPR1	ADAMTS9-AS2	0.696888089	8.33E-56	postive
NRG2	ADAMTS9-AS2	0.50932445	3.82E-26	postive
P4HB	ADAMTS9-AS2	-0.405407594	2.88E-16	negative
PEA15	ADAMTS9-AS2	0.431766348	1.84E-18	postive
ULK2	ADAMTS9-AS2	0.539195303	1.14E-29	postive
EIF4G1	AC114980.1	-0.441899855	2.34E-19	negative
P4HB	AC114980.1	-0.447367435	7.46E-20	negative
ATG16L2	AC008737.1	0.43903563	4.22E-19	postive
ATG16L2	AL133406.2	0.4452436	1.17E-19	postive
ATG2B	AL133406.2	0.432260206	1.67E-18	postive

FOXO3	AL133406.2	0.419763553	1.94E-17	postive
DLC1	AC053503.3	0.631188519	4.52E-43	postive
GABARAP	AC053503.3	0.417140883	3.21E-17	postive
HSPB8	AC053503.3	0.782288531	1.11E-78	postive
ITGB1	AC053503.3	0.458477871	6.87E-21	postive
ITPR1	AC053503.3	0.55921511	3.10E-32	postive
NRG2	AC053503.3	0.400156422	7.48E-16	postive
ULK2	AC053503.3	0.498712596	5.65E-25	postive
PARP1	AC008074.2	0.458331641	7.09E-21	postive
RGS19	AC008074.2	0.592857803	5.81E-37	postive
CAPN10	ADNP-AS1	0.414114027	5.70E-17	postive
BAK1	AL122035.2	-0.448252498	6.19E-20	negative
BCL2	AL122035.2	0.461799563	3.31E-21	postive
DLC1	AL122035.2	0.506725998	7.45E-26	postive
GAPDH	AL122035.2	-0.401679749	5.68E-16	negative
HSPB8	AL122035.2	0.501091554	3.11E-25	postive
ITPR1	AL122035.2	0.57499064	2.20E-34	postive
P4HB	AL122035.2	-0.497499041	7.65E-25	negative
ULK2	AL122035.2	0.443451534	1.69E-19	postive
MAP1LC3	AC002094.4	0.402363833	5.02E-16	postive
DLC1	AC083964.1	0.40653934	2.34E-16	postive
GABARAP	AC083964.1	0.518671861	3.28E-27	postive
HSPB8	AC083964.1	0.44049002	3.13E-19	postive
TBK1	AC025165.4	0.462712313	2.70E-21	postive
BCL2	AC093278.2	0.44293048	1.89E-19	postive
CCR2	AC093278.2	0.464111588	1.98E-21	postive
CFLAR	AC093278.2	0.472812832	2.77E-22	postive
DLC1	AC093278.2	0.494977662	1.43E-24	postive
ITPR1	AC093278.2	0.593291148	5.01E-37	postive
ATG2B	AC098484.1	0.402824228	4.61E-16	postive
BCL2	AC098484.1	0.532355926	7.86E-29	postive
ITPR1	AC098484.1	0.55562747	9.20E-32	postive
TSC2	AC098484.1	0.406692668	2.27E-16	postive
RGS19	AP000345.2	0.408838382	1.53E-16	postive
GRID1	AC007541.1	0.405679564	2.74E-16	postive
MAPK8IP1	AC007541.1	0.464163825	1.96E-21	postive
PARP1	AL133467.1	0.62195214	1.60E-41	postive
RGS19	AL133467.1	0.797503324	7.18E-84	postive
BAX	LINC02381	0.40357559	4.02E-16	postive
ATG16L2	LRRC8C-DT	0.415915122	4.05E-17	postive
BCL2	LRRC8C-DT	0.685399035	2.46E-53	postive
CCR2	LRRC8C-DT	0.402956572	4.50E-16	postive
CFLAR	LRRC8C-DT	0.41884101	2.32E-17	postive
CXCR4	LRRC8C-DT	0.55364879	1.67E-31	postive

ITPR1	LRRC8C-DT	0.626171328	3.19E-42	postive
MAP1LC3	LRRC8C-DT	0.411370611	9.54E-17	postive
ATG16L2	FAM13A-AS1	0.639488537	1.65E-44	postive
CFLAR	FAM13A-AS1	0.45650947	1.06E-20	postive
IKBKB	FAM13A-AS1	0.465648042	1.41E-21	postive
DDIT3	AC025165.5	0.425354018	6.56E-18	postive
RAB5A	AC112220.2	0.418494958	2.48E-17	postive
FADD	AL606489.1	0.420274812	1.76E-17	postive
SPNS1	AL606489.1	0.418976512	2.26E-17	postive
ATG16L2	AC084824.3	0.578643834	6.73E-35	postive
BCL2	AC084824.3	0.445440491	1.12E-19	postive
CFLAR	AC084824.3	0.400650748	6.84E-16	postive
HSP90AB1	C6orf223	0.535942566	2.87E-29	postive
VEGFA	C6orf223	0.53463584	4.15E-29	postive
ATG16L2	ZBTB40-IT1	0.513376211	1.33E-26	postive
ATG2B	ZBTB40-IT1	0.442933388	1.89E-19	postive
TSC1	ZBTB40-IT1	0.4720073	3.34E-22	postive
ATG16L2	AC016957.2	0.431111191	2.10E-18	postive
BCL2	AC016957.2	0.407614431	1.92E-16	postive
GRID1	LINC01376	0.438188106	5.02E-19	postive
ATG16L2	SEMA6A-AS1	0.414796609	5.01E-17	postive
ATG2B	SEMA6A-AS1	0.429204593	3.07E-18	postive
GOPC	SEMA6A-AS1	0.415063471	4.76E-17	postive
PIK3C3	SEMA6A-AS1	0.412206308	8.16E-17	postive
GRID1	AC104072.1	0.497586237	7.48E-25	postive

Table S3: The difference of Stromal Score, Immune Score, microenvironment score and relative infiltration abundance of immune cells of the two risk groups were estimated based on the 7 algorithms such as TIMER, CIBERSORT, CIBERSORE-ABS, QUANTISEQ, MCPCOUNTER, XCELL and EPIC.

immune	pvalue
B cell_TIMER	0.002399
T cell CD4+_TIMER	9.62E-08
T cell CD8+_TIMER	2.39E-05
Neutrophil_TIMER	7.99E-11
Macrophage_TIMER	1.58E-13
Myeloid dendritic cell_TIMER	5.36E-10
B cell memory_CIBERSORT	0.008762
T cell follicular helper_CIBERSORT	0.03245
Monocyte_CIBERSORT	0.023569
Macrophage M0_CIBERSORT	0.011514
Macrophage M2_CIBERSORT	0.013284
Myeloid dendritic cell resting_CIBERSORT	0.008971
Mast cell activated_CIBERSORT	0.001606
Mast cell resting_CIBERSORT	0.004879
B cell memory_CIBERSORT-ABS	0.002154
T cell CD8+_CIBERSORT-ABS	1.31E-05
T cell CD4+ memory resting_CIBERSORT-ABS	1.46E-07
T cell regulatory (Tregs)_CIBERSORT-ABS	0.001729
NK cell activated_CIBERSORT-ABS	0.006716
Monocyte_CIBERSORT-ABS	2.20E-05
Macrophage M1_CIBERSORT-ABS	0.000112
Macrophage M2_CIBERSORT-ABS	5.48E-12
Myeloid dendritic cell resting_CIBERSORT-ABS	0.002463
Mast cell activated_CIBERSORT-ABS	6.74E-05
B cell_QUANTISEQ	6.89E-05
Macrophage M2_QUANTISEQ	1.17E-08
NK cell_QUANTISEQ	0.047347
T cell CD4+ (non-regulatory)_QUANTISEQ	0.008517
T cell CD8+_QUANTISEQ	0.00096
T cell regulatory (Tregs)_QUANTISEQ	0.000108
uncharacterized cell_QUANTISEQ	1.49E-09
T cell_MCPCOUNTER	9.53E-05
T cell CD8+_MCPCOUNTER	0.000996
cytotoxicity score_MCPCOUNTER	0.002516
NK cell_MCPCOUNTER	0.005022

B cell_MCPCOUNTER	2.14E-05
Monocyte_MCPCOUNTER	7.25E-11
Macrophage/Monocyte_MCPCOUNTER	7.25E-11
Myeloid dendritic cell_MCPCOUNTER	1.21E-13
Neutrophil_MCPCOUNTER	0.001903
Endothelial cell_MCPCOUNTER	8.39E-08
Cancer associated fibroblast_MCPCOUNTER	4.32E-08
Myeloid dendritic cell activated_XCELL	2.51E-07
B cell_XCELL	0.007491
T cell CD4+ naive_XCELL	0.000101
T cell CD8+_XCELL	0.005663
T cell CD8+ central memory_XCELL	0.002383
Class-switched memory B cell_XCELL	0.038072
Common lymphoid progenitor_XCELL	0.029648
Common myeloid progenitor_XCELL	0.037732
Myeloid dendritic cell_XCELL	3.27E-05
Endothelial cell_XCELL	9.19E-05
Cancer associated fibroblast_XCELL	3.24E-08
Granulocyte-monocyte progenitor_XCELL	0.000464
Hematopoietic stem cell_XCELL	1.38E-08
Macrophage_XCELL	0.000169
Macrophage M1_XCELL	1.52E-05
Macrophage M2_XCELL	0.002678
Monocyte_XCELL	8.51E-06
B cell naive_XCELL	0.000561
T cell CD4+ Th1_XCELL	3.63E-07
immune score_XCELL	2.50E-05
stroma score_XCELL	1.00E-07
microenvironment score_XCELL	1.02E-08
B cell_EPIC	0.001139
Cancer associated fibroblast_EPIC	2.21E-06
T cell CD4+_EPIC	0.004301
Endothelial cell_EPIC	3.20E-07
Macrophage_EPIC	2.26E-08
uncharacterized cell_EPIC	2.62E-12