Figure S1. The silencing efficiency of (A) shRNAs and (B) siRNAs in 786-O and Caki-1 cells was detected by reverse transcription-quantitative polymerase chain reaction. (A) Relative PLEKHO1 expression in shRNA-transfected 786-O and Caki-1 cells. **P<0.01 vs. sh-Ctrl. (B) Relative PLEKHO1 expression in siRNA-transfected 786-O and Caki-1 cells. **P<0.001 vs. si-Ctrl. One-way analysis of variance followed by Dunnett's multiple comparisons tests to compare differences among multiple groups. PLEKHO1, pleckstrin homology domain containing O1; sh, short hairpin; si, small interfering.

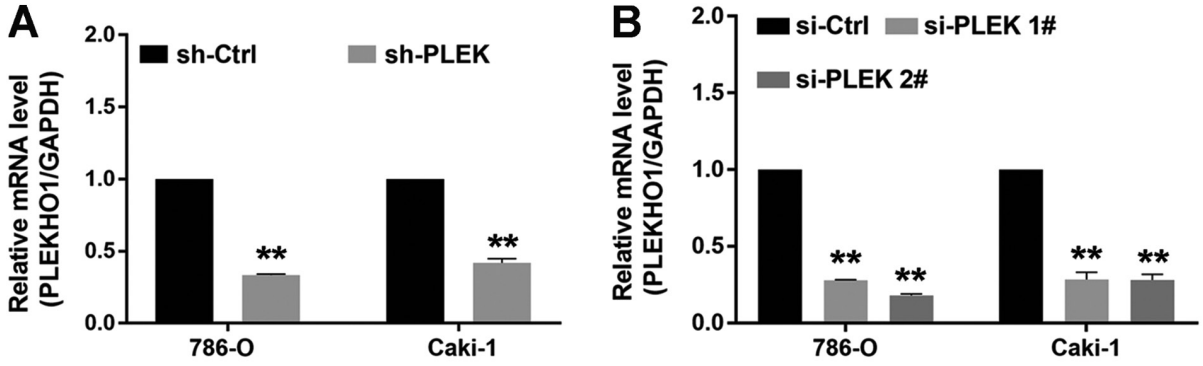

Table SI. The file names to access for HTSeq - Counts data of the 527 RCC patients.

id	File name	md5	Size	State
001ae925-102c-4818-8eb0-c8d2e5726e7c	d3f73c0f-d518-4e91-b038-a4360495ee27.htseq.counts.gz	a20fd7085b4d1b35e228d65ae2cee800	255968	live
0085c623-bcdd-4b71-960c-a42acd0e53e4	801c2c60-5dc2-43f7-949f-18b5a35a4ca3.htseq.counts.gz	4bfe0e3c85512a673c822fa01763cb21	255034	live
00f072a6-6db0-4dcd-b819-e664f7e827df	9fa215ae-e9ce-4f87-9c8e-b3d9574925c8.htseq.counts.gz	ec2d4e7a4d744f6698708daa4366c0a0	250343	live
02b2aa68-61fe-45af-8c2b-0e767df36cda	2fcd467f-4ea2-4712-ad16-217e05b135b1.htseq.counts.gz	959def0ef3c637316b50cb7928226bd0	251930	live
03d18e3c-0a38-482a-8ae0-5fa6906cb6f5	0048d446-301b-4d04-97d2-1348b6889692.htseq.counts.gz	158bbac7dc2235e4b0e784c72c5e8b27	258646	live
03fa41cb-b8b9-47ab-88d6-25852567da7b	476de4e4-7dfd-41a8-a3c5-3ae05987093e.htseq.counts.gz	4ee85f358d8f53b40e3cb48d922e9a99	249920	live
040b0c23-c706-41f1-8fa8-195509486588	2e5095b6-5f89-4b79-abfa-0afe326801ef.htseq.counts.gz	631d3adacc2d9fdc8f54f6baf9237d32	250936	live
051d3b55-a9f1-4f26-bcff-0dd28044d282	a85824a2-de8d-4c52-942f-d8af5fe92ea9.htseq.counts.gz	0bd28c24a7323c73a8433291b97cf712	249147	live
05360eb2-3e42-49a8-80cc-312b84e6dae5	a6d0f911-5137-4a56-a772-51da9d23f253.htseq.counts.gz	f583d1f4a382afb61a740992d0fa9c03	260038	live
063230bc-0d50-41c1-ae7b-649acdada086	c5c166cc-9a61-4340-901b-d198cb522289.htseq.counts.gz	bf6c828551df4a070ed85cd1e164c6f6	257009	live
0650d0c1-0580-45db-9793-0080df1e44d8	135ce95c-79ae-43d0-83d9-a435c2974267.htseq.counts.gz	59fb23f0048a4ced3944241c5895fef8	248341	live
06645f1d-a5e7-4d15-9dbb-e44db1d58f3c	e26db93d-c41d-4048-9cab-196ec70c5676.htseq.counts.gz	cff3413bad471f2ce7356c4f5e137dca	250006	live
06b98f02-9853-4c2f-87fa-1e0a454ef4bc	b42d8f67-8e05-4302-ae87-783dfb38a58a.htseq.counts.gz	c1db9547274a79d545d4db7e25bde969	255323	live
06be8fbd-a447-49fc-b2a4-148a8ccd4438	345d3200-a399-4eca-b48f-2beeb1689a8a.htseq.counts.gz	cd05710fbe700bdffae57f3d4aa3dcd0	259311	live
06c39d53-76c5-4264-b227-52204d903d72	8accded2-8915-4eda-9ee4-c6730c2474de.htseq.counts.gz	3594a36c038f420b219ee1eb3eb2daec	261599	live
07298ec2-13ba-46de-9972-b9f420a31eea	62be7dc8-d879-4626-8168-25ccccf341f5.htseq.counts.gz	659740305cfce0abf1aaa6aba7730b43	253536	live
0800fbe8-bc48-4b61-bb23-f67aad42851c	9cb91836-3ed3-47e9-8f86-eb15937fd537.htseq.counts.gz	0301bbdcc00f80ae356c7e23122d593c	243978	live
091a36c4-00bd-48ac-a964-d26c1cb22dbd	6f899334-8741-4d1d-a8e2-3bf17a25c968.htseq.counts.gz	7d2e6b1a1504adddde8bd77487f1dc1f	253172	live
0acaea3b-3157-4e69-ae01-7d7c59047128	5aebac9e-80ba-48bb-aedf-752196a1861a.htseq.counts.gz	6c691ef4f5490e72d2fe50d8a562a49e	256422	live
0af2d5f2-00c8-4ee2-8a79-790ddd1272f1	7a790ece-2c1a-4895-a475-9fabbc0622a3.htseq.counts.gz	bda8e8e0bbd3b2442bb1f1d7cb47a8c6	259519	live
0b358532-e510-49b7-a61b-f0b699e7f05e	ffcebcae-607d-4a4c-bb0e-6eda3ec5ac25.htseq.counts.gz	66e5a9011d6716d1d13754f794d7c6e7	253987	live
0be2e699-7dc3-4991-a4e1-8d56a54ae6c7	e68b0db1-da01-475f-aa4e-6f7f87bbc135.htseq.counts.gz	be3bf3419e56edf1705e62aea2366673	255392	live
0c0c7ac6-aa7e-4d5c-bc25-eea6e09cb83e	22ec8ef1-957b-468e-b101-a9e088f86338.htseq.counts.gz	e57859c969833787cec317bfbf9efe9f	254919	live
0d189924-862a-4fc1-ae1c-85f13d5bf8ad	1e69236e-5526-4bf1-8de5-35d50a71f227.htseq.counts.gz	391b4394a48b856fd9b435f82b8f78af	253595	live
0d59438e-2bcd-4847-9c8b-be41a8980ae3	24eae743-7c15-40f5-82ef-8284c704a6f3.htseq.counts.gz	ee275742aa79c4b2ee2c3ac785f0914a	256989	live
0de11495-6f10-4326-857e-269ec6dac376	9792f7ee-3295-43d7-b2f9-46cfa2dd2167.htseq.counts.gz	4a566eb38c4b862db64f038f3aa3d8db	254548	live
0e636519-c09c-4ca2-87ad-4492712f0b88	151836ff-610c-49ac-a8c5-868e0bbf4eaa.htseq.counts.gz	00cdd6daf656417f53508a44dfb09fd7	259260	live
0ed3a4f4-c9c5-49b2-9c69-5d807f4d469c	6a0f01a5-152a-494e-aef3-45e58c875a64.htseq.counts.gz	80bf7f1e76aaed7d76195962eda9cf89	258281	live
0f030a91-641a-4703-aa8e-d7df5bf9efa0	996fa724-fa06-4f69-abd7-910a1a74e276.htseq.counts.gz	2d83d33ac199e2cd82ae5debc6f1f325	252210	live
0f5f8c38-2ad0-4acc-9f4e-c1d5ffddc059	d3b586fc-3d45-40f1-bbfa-53e85e005e4c.htseq.counts.gz	25540ab4d1bcce877c3d1c7f085efa54	252523	live
1180f440-44fd-4e90-94a3-c5624662fe0f	6641ecad-6707-4f4d-ba99-d28b3817bd98.htseq.counts.gz	dc177e4236bf488efc3487bc50137963	259926	live
1232fa43-bfbe-4852-bcc7-584b1d007da6	71a24f55-17a7-4396-91fa-e6c7e03df518.htseq.counts.gz	c0b7706229f3000b1c707704a5fa52f9	253223	live
123a78ba-f2e8-4f8a-8d5c-96fd01e2d81c	4245d642-56a7-4b27-b74d-ba3e3535b4d8.htseq.counts.gz	cb921354dd81f3584e7bc19cd42db1db	253478	live
123e89e4-a93d-46cb-980e-d1acb1297e54	1d5e00c4-5c82-4035-8304-841ba81c61fd.htseq.counts.gz	c0fa87a7f91868bdc2938d40980abbad	258019	live
129bf087-37a5-4ae7-847b-9e8ed29c489c	015b7fde-e571-4f7d-9574-eacfa8107a4c.htseq.counts.gz	01fad72f0f964011f0af220c3aaeafa8	256064	live
12b86bf2-36cd-4351-afbd-55547cc90fe8	be68c6d8-3f37-4080-8ac7-4032756d071d.htseq.counts.gz	874d2e0aca89683bbb79cac906ed2f42	250244	live
12e6deea-2ad5-46f2-a3f9-b7d16a03f5b2	be5d2862-2042-43f3-9469-9c8c599e21fc.htseq.counts.gz	8e41badb303b8b3548e9362c0c198913	256863	live
13850ee5-7407-4f9b-9a0b-6a30d94028f4	286f0725-a1d9-4745-aa33-c7a0d35e0481.htseq.counts.gz	d196df741e3bb1c0d10675e84149d204	253217	live
13ebf468-8820-4784-9e9f-6150ca56656a	d56f943d-74a6-4a8a-85df-85fd737b0eab.htseq.counts.gz	20d10343bbe0fe146422a05dd683225f	255927	live
1408a0b4-5812-4191-a87b-f4cb32849cc4	a8d90f96-19e8-4b2c-a9c8-904a4063d235.htseq.counts.gz	701dc1844679ab21c6dfaf332deb32c2	252287	live
1433bdf9-1de5-4879-a4c2-2ee43800c1ba	f426d6b8-5010-471c-aa9c-253269f6bc03.htseq.counts.gz	b99153e18cca196290ddc6109f4a5217	255893	live
14f53cea-e25d-45b0-b313-b5fe731ece9d	e9d0a954-7b2d-42c1-a2e1-799a289cc5af.htseq.counts.gz	cfa6d4efc4c0822ed1096016e739c84f	254003	live
15f3f82b-e39e-4cb7-b170-e2bbff61c609	956b383e-6fd2-492c-b907-cf7c09b06863.htseq.counts.gz	41536ad8ee9f13b38ac20265ebfbc19e	258005	live
160f9a11-65b0-44d0-bb02-5bb49a5b95d9	3ff465f0-6c58-41eb-bad1-15bd5cd80531.htseq.counts.gz	eb02ceb27dfecacfa93dc1796d533b14	255076	live
16a6a641-52a3-4569-8ea1-ea090ad7027c	200f078d-025a-4d6a-9e45-7093133577760.htseq.counts.gz	0bdf69d2936dfcc40c5f98dd0d069dc1	255524	live
16b5a58b-480c-4561-b311-550398e74c3c	9a7c9e75-314d-49ab-9e31-5cb1fb1ebb38.htseq.counts.gz	44f0d14345537faad567d8a0ebd95af0	252423	live

173720c8-fbce-4c3e-86e4-b84191ed67da	a3f0e2f2-fca0-4562-812e-31921c9f482f.htseq.counts.gz	d99d48d23785b6633a0df90562f01c82	249643	live
17452245-bdfb-4cf0-b112-8c1254e681d4	4e368418-06a0-4795-a216-59f16353b590.htseq.counts.gz	af7dac5b1ea77036f13207563c5bb014	253739	live
177f3a3d-4869-432e-bde2-eaed91187629	bf6ab33e-d822-470a-8c4d-9f7a8781eb90.htseq.counts.gz	6c1465bbbf37b30efdfe1ed57ee68b86	253221	live
18816416-edda-401c-b1a9-618cb4ea7986	355f9f19-ed5e-4bf6-a8b5-d50f67d5d43c.htseq.counts.gz	6c87d0ce46832bd76ac8b59fa3baa4bb	255581	live
1885c1ce-104c-4b61-a444-cd10b47c3665	57e55f20-f2a6-4d40-88cd-8aab747791b7.htseq.counts.gz	d888db2dc868cd54b1d3710f3f21c5be	254429	live
19c998c3-e83a-42dc-889b-bd16393b6adc	576dfeab-3d42-4c3d-be8f-10279e800cfb.htseq.counts.gz	cf34a86a1b8c6edec7fe96348bd3b885	252896	live
1a90a144-6641-44d8-a4f6-efa32e2eaff9	68ef4372-517a-443f-91fe-668feb24beee.htseq.counts.gz	2a06170ab62c7f8ccca5f57be674c6e1	248589	live
1a978e0c-c25e-41c9-a0a1-96025baad2dc	de3d2ca0-d59f-46b3-9b15-fad972cfa86e.htseq.counts.gz	0f4bb12309773906ef2f42437d74e68b	260589	live
1aa1e468-dedd-4023-ad34-627b34bc00ba	e3f9e542-aeb1-48f7-ad1d-929262441454.htseq.counts.gz	2df9a30bbf06d58495d3f4b21d418cb1	251273	live
1af298c0-84b1-4e32-81d0-e627c8dbd8b0	476bae8b-1fb6-4c6c-98ae-2a779a718e6f.htseq.counts.gz	178abeb6f65dbccda0650aa879eacd30	254039	live
1b0bc64a-1fad-450c-9826-901733d1fb0e	80b47148-4783-43bb-9f61-570cb5f0202a.htseq.counts.gz	122557089f488736f42a05b498476092	253782	live
1b2eb786-d430-416f-a3e2-20088874d53a	21ec2ebe-dd2e-45bc-9702-cfc75f27dbbe.htseq.counts.gz	b2c7866ff0d99c6428133f6a470f05e4	259016	live
1b7013e1-8acb-4c8a-9012-1b4a8c29fe75	e4b1ed66-ee93-4b3f-922f-f386412247ec.htseq.counts.gz	fd5c36846ec26470d0bd1025f218f901	251633	live
1b9179b2-ebcc-4a18-932f-09cae1bf8b90	8397b99f-3ab3-4e85-a6d2-4377689aface.htseq.counts.gz	15d57fc251d98b0e84338ba8a2b9bb77	251383	live
1bb3155f-233c-4391-b0ff-f55077cd5084	a7ba8570-638d-4ec3-a02e-e861114ce097.htseq.counts.gz	af2a11e718a8e8e526fa3d93845246ec	258980	live
1bd99108-25d9-4a68-8ba5-6df0c193b31b	bf10b66f-f192-44fe-9580-16599fb7904b.htseq.counts.gz	6e9f7ea0094c11f247c27f9db984a62a	255015	live
1c19e674-4bc9-443b-ae31-228a74eb4836	c50805c9-71f7-41bb-97f9-5ef389cbfb62.htseq.counts.gz	954a620d759a22f98b84494f726a3e8f	252687	live
1d0b3f02-4703-468b-91f3-8d00d2998c09	f2d9774f-f42b-4c02-9dc2-0d91a577d0f4.htseq.counts.gz	0bf4de952f948af134ea91fe72a25d60	253075	live
1e16138f-654c-427c-9ffb-b16b5d8d3fff	b5bfeece-9757-4bfc-8067-1a342175298d.htseq.counts.gz	059d45ebf26b6fd61c340f8685853dda	252518	live
1ed5778a-7929-4645-b6fd-753268a79b37	48eebb82-b27e-4e1a-b916-6d471d5869ee.htseq.counts.gz	30d526c9f155224fb05b6eba28b6cab3	253165	live
1f5152a5-04aa-4389-8c09-aee3b02d8ff3	e50711df-fe6b-480f-97c0-e150cb5d3a5b.htseq.counts.gz	ddd66dfbb17ceb234d1002ae9730d0e9	254654	live
1fbe7f8c-bd58-4462-bd14-107268c693b4	666b1386-0778-4b3c-a736-dccdc041c80f.htseq.counts.gz	77ee4721519cd4b006c85a86a8c266fb	257748	live
20d82764-4c1b-436e-8ec3-18e2f41baf5a	ee688178-c5d2-445d-a4ce-69a17640e43d.htseq.counts.gz	539ea943ebd6cf02b50a67eb67bda980	250904	live
20f2ddd9-f4be-4515-9f1c-8bbf79882dc8	521cf209-e415-4352-96d7-aef7c1d564c0.htseq.counts.gz	f8fec45dd8c9e4ced27dc7e161b1ac1a	256097	live
219fa29f-3da2-4ee1-991f-18dcca25184a	7db35b39-8d3e-4f93-8450-7e494ba9e0f8.htseq.counts.gz	d9142b512ca71c49a087567cadf22a18	259629	live
2208f420-20a2-46a1-801a-ff7eb8a42590	b1f1481f-9572-4460-bc2e-7646b454f488.htseq.counts.gz	591fd7f7aa0bd4b3342214c213dae3ec	254457	live
22245d1e-8376-46e1-8d3c-b5c3961c772e	608afa9d-7bfd-44d3-9d73-1b027c185518.htseq.counts.gz	48a9406eb12229c43945035651a787c4	258941	live
23572751-2161-4b78-8b67-08cdcfc597c4	65393588-3484-4942-80d5-fb3a43cbc543.htseq.counts.gz	f8b7cda19bdeff2b53379a3a33680988	259303	live
23b1679f-ae8a-48fb-b5ca-f7772edf046f	4760aebd-9599-4cfa-9b56-50bd7ffb87cd.htseq.counts.gz	077ca308d860d181a2b460bd82ab0f79	254452	live
23b7e501-5a69-42f8-b1be-f4cc960c8b49	00a9180b-4707-411f-9732-61fc49bfeb48.htseq.counts.gz	0b1532d3b8b5f7ce058fb816ac277b9a	250628	live
24200a94-07cc-4639-a9c0-5d3a309439a2	53bbcddc-bbee-4a5c-ae1b-f68a5e7ef01c.htseq.counts.gz	028ad064326f0cd91a4b12cb213a3756	258553	live
256908f6-e3c5-4cea-80f1-da17581e58c0	776104e1-6a5b-4fda-8943-23edd5bcb462.htseq.counts.gz	00d02164701c9eaaddd3b112f80fc0ef	253647	live
2576a7cb-4188-4951-add9-8ff19fee8962	6528258a-b7eb-4919-8056-225229e1efa5.htseq.counts.gz	c9ac1a63cee57206c896c219644a79d9	254471	live
258f12c4-7ebb-4704-bde0-c00a6794410e	f25e85e5-e84e-4b42-bcf0-d493d8bffba4.htseq.counts.gz	d44bb7cc0c98a2e6b9002fb42bdd068c	255013	live
259728af-0e54-4e90-ab0e-2d298c46d432	bf688e5b-c62b-424c-b974-5c8b24e46764.htseq.counts.gz	f24560d73a183c1c51c24203f67113b9	257731	live
25d9f4c5-a040-49bc-839a-671a3ef1d89c	61162647-173a-458b-a387-967a2fd77630.htseq.counts.gz	c2d495974f3e59cbf884af0d40ecfef4	262007	live
25e26eb5-ef83-458e-8de5-afdb8dfdb3d4	e1c82878-ac01-45bd-83b0-4bc606039670.htseq.counts.gz	b6627ed40033dfc9c3811a33d6194747	250609	live
261fac60-1fc6-4b63-8504-50661012817d	5ed6a576-0353-4e3e-9df8-a1a177e4672f.htseq.counts.gz	c4f46c5fae5700c7d1bf5cc1fe5e7aba	253045	live
26280006-d638-4f1e-b679-ea511b9a849f	5e34aa02-ef95-47e8-8dc1-7fdbbb9c883c.htseq.counts.gz	27f2751ccc40e1a1c2337fcac9067682	253727	live
26315240-b1bd-4a15-8e07-43b6aab822bd	dcc0b93e-257f-48ce-b052-4de18db8d3ff.htseq.counts.gz	9b56620d5fee13365ce051bfd70975f3	251504	live
265ef764-0299-4452-9995-e50b965edfcf	495fe6cb-7649-4434-98cd-214f1b842907.htseq.counts.gz	93331d3fde8983bd431b0ca992cc23f4	258252	live
2662d132-5eea-4f13-8f92-2820e71536b6	1d443e1f-794b-45bb-ae6f-91f57d5fca33.htseq.counts.gz	5fd1172cb41356f06287d2b79e7a566a	253442	live
2671dda7-926b-4b95-9b0c-5ebe9a40f0c2	9af07569-4904-4354-8554-a53951d991d5.htseq.counts.gz	5d5523ee1c7aa65b5feb6f57c7bb7aed	257062	live
267c4c14-6c85-4ea1-b946-431363971381	2950c137-45e0-458f-987f-31de7f7befc4.htseq.counts.gz	b9f546cce9ca2489d5fbf04307968558	250727	live
26ad3537-317f-4297-98ab-5854fb33e766	426b94fe-fcff-49f2-9d0b-c7cb49bb5559.htseq.counts.gz	1a1c97d8842ef68ae2c3560da9d5262f	257572	live
2707fd6a-c885-48b6-a44c-7c9644d08025	b25e8317-280f-4d1d-a65f-67bb2a20268d.htseq.counts.gz	ff44aa0ff912eaae0d7a2ea616617805	262837	live
27470e9b-a827-494f-901f-d3c5a54aafa2	0ca1e770-a584-4090-95fa-9c0a3ad4bc16.htseq.counts.gz	25db343ddd5cc348fe4e63e1b952cbc0	241164	live
27510e15-2bea-49d3-9580-17bad477970e	ea52b9de-451a-480f-8e1a-ac520dcfdeff.htseq.counts.gz	d9b8ef24770cfea6600ae2c2b2097ac8	254851	live
27cba210-ac94-4bec-a5c8-8ad890497e6c	87750eaf-0823-4f5c-9bf7-577471f4ca68.htseq.counts.gz	fdf00c42dabfb348ed147b42b63eaa93	253439	live

27d3095b-0b1a-4524-8509-5cce95f1f941	3645a77a-a0da-4385-b02d-4e52fbe33df0.htseq.counts.gz	5c2b90c48fcb836c5c8f3b308ab1324d	252287	live
27fa4c19-9ac2-4ed6-a013-f6cea9d6ccd7	55cca3e8-899a-4fba-941a-8789f5d1d206.htseq.counts.gz	dcb2545f46169615ba257e1c617005a6	256303	live
2874581e-c7b6-459a-b153-bbbe7bcdd198	3582b129-85dc-49f5-bcfb-bc409ab90080.htseq.counts.gz	4ec5d8b30d991aa58a70689d78e7279e	255981	live
2875cd96-831a-4860-8293-0035eac51af6	14a46052-6b89-4fb0-bc9c-08d232219ab7.htseq.counts.gz	80896ccee0d3aa07adbca1305b7944b7	250127	live
28ac8ad7-98d4-4430-a310-c351e5b1c455	58f96018-2cf5-4e6b-bec0-b8c79da62bce.htseq.counts.gz	755d899546fbc783456b5ebc64a2e727	261058	live
28b4e6d0-e3c4-4160-8e3b-ebbc2ff21ba5	fde994b4-f247-4bc9-81f2-dd9d39008c31.htseq.counts.gz	d096a1f89eac581ecd5a0b3d7d31ae50	255598	live
29598799-b3a6-47c4-b6d0-597348bf6166	38712765-2ae2-438a-92e0-ca9e326a875d.htseq.counts.gz	eae5a39a4d70ab91a4451c40313a4498	251043	live
2a3861af-a692-4051-b814-5c6bf810b3ce	44c147cc-537b-41f4-bff7-9ccef7d5d7a9.htseq.counts.gz	bb4332b85a6ca6d4d2d6b8f9b67ea0cf	254894	live
2a4378da-85ae-4dba-9246-104ab18d1be2	8e2e6b91-b5d6-4d21-a2c9-4ce9d48307ed.htseq.counts.gz	dcd9c7c4f89ad8216758dcd97ecf5486	248971	live
2a7eef40-f7c9-4864-94d8-2c65cec448c4	0ae0a2cb-0845-459e-b673-98ee0dea3968.htseq.counts.gz	4917518074af25c96e9c0ba5fc7772b9	254233	live
2acf0bea-d02b-4649-a6ee-763a9639b966	1f443134-5a5e-492f-9f82-843280eeaa7f.htseq.counts.gz	bf43242e75a944f0b95913626fadfc0b	253436	live
2b92d5f1-3264-4fe6-8c9d-f6c878f17af6	2b316653-ead7-4cf4-8b6c-e637d86f054c.htseq.counts.gz	452c474fec9208ebc223864a969e825b	252196	live
2bc1b30a-eb4a-495b-9c82-30e016edfd31	f6178fdc-41f7-458b-a905-4ea298e6b098.htseq.counts.gz	11cbff809bafc3c56ee2fc162b031ab2	259017	live
2cdde47d-4d0f-47ab-8ad1-6bf86e775586	6bfb01db-5e92-4fad-9b21-39e1e911716b.htseq.counts.gz	4ec64b5fd075b9ff8e5d50c50ce3b328	250026	live
2da146cc-b79d-49a8-b721-b69d9d44f9c0	c02e42b9-e4c1-4119-b287-97f74517aab5.htseq.counts.gz	d4980ad92b4349b9090481a5308caef2	252425	live
2e71d4d7-bede-49b2-9ed4-4e4d184fa688	8dec6cce-17fe-4d01-8ad3-f8baa1156356.htseq.counts.gz	584904b83e2ea4e078a96e9187c883ac	251900	live
2ec78c8e-5734-4591-bd93-b4fd8a11a518	3add0a93-4d4a-44e6-a85a-f2f0915e03c0.htseq.counts.gz	728b24d58cc105c061e09a45011adcca	254815	live
2f2d5c8b-d289-46a1-8522-12949be17ae4	bd77428f-6994-415d-ad14-a6e7676b343a.htseq.counts.gz	10076d615a94ee979da7f73abee731d3	251554	live
2ff3f415-bd55-4481-84b2-8ae67dbce5b5	f3876e31-2267-458d-826f-769bcfb34e56.htseq.counts.gz	5bbd4c820cabac46236e6920305bb116	254270	live
302eede7-3d7c-4718-ac97-9546aef0d2fe	61164db7-6b71-4a35-a799-8abcfb5ce4b0.htseq.counts.gz	72fb8d1156e09d015fb12e501c431ee5	249718	live
313bb1d1-01dc-4d2a-ac0a-50d6d247d27d	5e879f5e-3253-48fb-906f-0c36c3abe5f0.htseq.counts.gz	66a0c85919263e9c299619b3b50c481a	252931	live
319524d3-e354-4407-98e8-f9b41e06df84	a7f415b8-fd54-40fd-a143-785dca873d3c.htseq.counts.gz	fc5f9ed00218596b9a3dcc587ce29eac	252949	live
31afdd90-b09f-429d-9371-16c92c3fa4dd	3ee5534e-db4b-46b4-8d4d-111685eab0c9.htseq.counts.gz	d7c054d8fc556a5ed1b03006d21f898a	251482	live
32333805-0b11-4c0c-9a75-471bfab0bee8	0e88c1e6-6c1a-40e4-865e-b601621d33d1.htseq.counts.gz	a43f43fc1bd0c64b5ef08ac4cb146f44	253389	live
325cff86-b9c2-4bbe-bb8a-4005fe90bdff	432bfb40-6587-4393-89b8-456e639152e8.htseq.counts.gz	011df1fd0bddae26f84d1e8cb7e74867	254541	live
326e195e-bfb3-4abc-8084-d55a9f5d5a8c	00c12b3c-61c9-4d02-bd7e-2067f9a5f5c0.htseq.counts.gz	0d956684d2d2af63492a1a521392d3cd	260804	live
32a1ca78-025b-4900-b541-39970cfc1aa7	d03e50bd-6a01-4df5-835d-443bc87b8520.htseq.counts.gz	acba8e56278d2c30915c658f74e99c41	253798	live
32fab842-d885-49f8-a7c2-9e52d53b6f2e	98d62da5-20c1-412a-a75b-9e004574b7ee.htseq.counts.gz	1d4f7bcd8f0a24958253bfa329645f6a	244750	live
332c12ca-b218-49e2-84bb-1f413a613686	5a8f462d-a749-4542-bf02-f1350fb73599.htseq.counts.gz	954f7ef969d944066907d270edf42f3d	250923	live
336fea13-819e-4383-83db-1df064c2605b	c2e72857-11fb-4663-bf9a-bd2089d070fe.htseq.counts.gz	1d06820ec15ee0f08ccb437a114e0c60	264843	live
33d8a71c-7cb4-4968-89c2-4d3b2c1ae97c	1d683af7-3492-4250-8347-8e285676c83d.htseq.counts.gz	ca5fe235cc59fe6f2e860a35814b3ac9	249859	live
33e2fa7e-623f-4912-bdb1-af1828565cc5	31dd0805-728c-4e1e-8ef9-eaf304f91852.htseq.counts.gz	f57a477d69d35498230fd41cb1ae0f66	253000	live
345af743-aad6-45de-a738-e6def7755b71	020a0264-e1d5-4957-9abf-df6983845b8a.htseq.counts.gz	d11111b8988cf667fe4a2db7b7ac29b0	253178	live
35a9c3ab-dc10-4d93-a550-2186dbaa1502	f0dd3f84-52af-4d84-b911-c12ce87070a5.htseq.counts.gz	0b99aecb2fd28ae342e524dcf25e4d51	252272	live
36238e70-5b2f-4882-81b7-1ac88e592ad2	a094f020-375a-4f15-8f64-7d2272304acd.htseq.counts.gz	c8d702073200a44112c75d561405583a	258529	live
369eec9a-1311-468a-b233-4c5f8ce3e12f	a4bf31ea-aae7-45d1-9728-cf40d4c4b7da.htseq.counts.gz	d4dc62de6518fe911cb32bc87efd07b1	246789	live
36f16512-fd32-478d-a9cd-d78569a5a953	10ebec51-fa4a-4d65-9c5f-07eb6e399e8f.htseq.counts.gz	cb23d6c68d5882898eeaeabee189da6c	256012	live
36fc0da6-62e9-49de-b403-162df695ef8d	3a1ef3a4-f090-47dd-81ee-48469bc3f6ef.htseq.counts.gz	cfadc05c7466b6463710f05691839334	244108	live
373c6e2a-e463-4e59-a21e-37530f537259	dba87d20-a3ed-4ca3-93f7-0fe979f7923a.htseq.counts.gz	5a67dc7350cd8510d71d7b4f5fd12b02	255950	live
376f6843-ad87-4a3f-b76a-78eae76efdec	27348a04-4203-4990-ba27-4bde0422932b.htseq.counts.gz	d10c25e0609f6c6a30b24a0a21b50206	253616	live
37c88e74-0dab-4736-ac20-3b3025d16873	aafeade1-c999-487f-9a76-582f33545eee.htseq.counts.gz	e0b1b84508dc12d5b5a65bf83d71b8f3	252336	live
38126a07-6469-40e2-8833-41d90d3067b1	a6786f3b-caf0-4e1f-9711-1479b1ae0fdf.htseq.counts.gz	0405e52032ebfe412ad229f05df8a1a1	249729	live
38162fb9-f917-4c5e-8cac-09041a12fa42	e23540e1-f329-4908-a42e-269dd9a87947.htseq.counts.gz	59cfe87c5fc854539fbc146998e8fd17	258458	live
39311f9a-b39a-4ffc-aeea-660faebbd7f9	97ae61b2-1b02-4084-a949-8c7dc1073139.htseq.counts.gz	e662d206bc2f139aa6c00156ff7db21a	253495	live
398c3a67-8783-4539-a7de-532ab30c4fcb	679e7bab-b24d-415e-a341-da3955e8d47a.htseq.counts.gz	84d2b873c8db0c263b8bddeef2cc348f	255413	live
399bccfe-9797-49fc-a492-10596206c68b	d72fd13a-564a-4a11-9ced-8c891c91bfb8.htseq.counts.gz	b773e2e9b69ca6bd8f2b8f996728e3c5	262827	live
399e071a-a64b-49ce-abad-1b7421261471	2a3c3b16-84bb-4193-b637-c9e140c720b5.htseq.counts.gz	384500b9499aae6b477574a236f7147d	251347	live
39b55de6-d4be-451b-9e7d-31da539e67fb	f1af54f4-3006-4136-b0db-aec16e2075ec.htseq.counts.gz	39abdc172d593883c879e281c10bde4c	259733	live
39ec7ba4-3a83-41b1-80b4-af4f50b21401	9d5c2ed8-443b-4c71-b5b2-d9fc98b322c0.htseq.counts.gz	161d0431b6e600021a1dade22708d1c9	255928	live

3a4f930e-fe81-40e1-b976-3c60fe74293f	ecc2be0d-e700-4598-9e83-44e0b1a12e01.htseq.counts.gz	9c09acd2d1d48f1a4f97776ddd3f6de6	257984	live
3b97e2c7-5c28-45ae-91c2-902dfd3a7c9a	e69a2070-7766-4e4a-89f5-5728e2c9590f.htseq.counts.gz	c9286240a967b4794ec025324ee00c54	260220	live
3bea8989-71eb-4654-9dee-bf1679a40e8b	884aa7fa-58c7-4ec1-bb3a-5fd7141dff0a.htseq.counts.gz	d2447801f6c9674520e68e3ad0d771e6	259452	live
3c9f74c8-4364-41a7-b7d1-9d0f8b9c4a84	810d7c7d-1e04-4eae-8ae1-049dc111e255.htseq.counts.gz	5246d5d851d56a27abbda6ff09adafa3	259707	live
3cec76c6-1124-4494-8d57-426a32ec908a	6134c694-922d-4559-8f55-e03cc58d66dc.htseq.counts.gz	e2509fb619f02eb9be120b21ad0e6bb9	253711	live
3fb04b43-2076-418a-9994-8ddc21ada10d	978e6eae-88e0-4886-8523-baabc7b0764d.htseq.counts.gz	a39885c07484c287280d927d529c12df	256715	live
3fd3d1ba-67f4-4380-800b-af1d8f39b40c	2f3f4579-6282-43a1-9f75-bac712f1f0d6.htseq.counts.gz	1f062c9881f35d6ea433af7a389d3796	259090	live
3fe4c90d-4144-4fe0-8aee-5f2de724b468	fe3596cb-7fed-41b9-ae30-caebcf717e6e.htseq.counts.gz	392ecaa764129690fa29fb3903db6ae4	255899	live
4032d925-8658-4f80-be27-7211b1b5854d	a7d05ea6-aa28-457f-a20b-57e812b614e1.htseq.counts.gz	72fc15e5b54b9f57f4c9958dba7344b2	258313	live
410e543d-81c9-494a-9d84-60af7b00c2ac	b7567499-0820-49d6-9c72-7148d6628172.htseq.counts.gz	9d3cca8486eeb988847e9420b10bd51e	253717	live
41197e55-30cc-40f4-94d0-930064ac3259	6fe662c3-c2c3-4c70-9f77-5061cea46203.htseq.counts.gz	a1b0e7ed345f5de6413ef89661de1ca5	254208	live
41c2e1d8-7fd4-425d-b2e1-d2b659d769a2	bf4b7a95-244c-44c1-b5bb-49bc3b6fba68.htseq.counts.gz	2a7dd77e30fcaa1fcb046d30530cd204	250268	live
42c14f01-2589-428e-b3ee-0ac4cbb2cbe6	fc5bd55f-cdb1-4c96-a91a-513b43e6a99a.htseq.counts.gz	7dbdf8377c6424d92c89c01cdb327548	256338	live
441b87bc-1c08-4a25-8c3b-a13c6ca80777	a44076d3-e44f-4668-b088-80a55f1d5ec8.htseq.counts.gz	c42331099a55a79ac39217540479fc62	253163	live
44354b17-a9cf-485b-be8c-08717e8911ed	777d1602-66be-4673-b69d-d651abf7bb35.htseq.counts.gz	d9d58a0c92c5285e41e3591e26909b0a	256214	live
449a2d10-07de-4e5f-a0d7-e7f59bc5c435	890031a1-4dae-4f7a-ad43-beacc11f4d90.htseq.counts.gz	40e96bd492c3b1238d684e9d72e8700e	252715	live
44d2cbcc-4084-4de2-b2bd-fc43a5e2495c	1d5e8f90-0bfc-4a01-b988-925f3c0ec1cf.htseq.counts.gz	7b545d687ba75e52d27b8ffe5a78676e	260984	live
44e6e2f3-284c-4450-b95b-8783fbbee2d5	5a715f75-afcd-4255-bbdb-9eaf756a5944.htseq.counts.gz	208476a05b8cdfddd776252b9c04a34c	259449	live
4635a89c-1635-4406-b196-2fd0610a76bd	38096336-4257-481c-b653-91804af5b2a1.htseq.counts.gz	afeaf7f8ce49d079ad0ac9b6fdab11e1	255558	live
473e7d1e-1433-4db1-90b6-05456d2dde48	ff975b13-1717-4c41-a653-3a57d702cb2f.htseq.counts.gz	bdef5378d241a5dd16c17d42099ee7db	255151	live
479e7d6e-d148-4650-9e62-a23762e534a5	6ede5224-9a84-4ec5-9db2-99fbaf3419b1.htseq.counts.gz	6bddc3ff5ec06495284d1c161debdd39	253814	live
481383ce-b91b-4051-be71-0742f26cb178	d9c7a1f7-f303-4617-b46c-2003e871095b.htseq.counts.gz	2f1f18db7fc09d86c9f61b714a824d76	247647	live
4922ffa3-33c1-4bd2-bf59-42b7d2694315	45b50712-c8b3-4f01-9802-a4f30d233d19.htseq.counts.gz	163b72b1e12f0323a03bd7e8a2441ee9	252715	live
4a78a7c7-3cb3-4965-ad00-15c700cc5c5c	faeef296-5731-4095-b617-18a19e419b3f.htseq.counts.gz	b4ac73a0503067e0a9130e4fb4da23f0	262450	live
4ac1eb42-7b57-4da2-a49a-15d7da12a9bc	c54adb79-67e1-4dc2-bf30-a947b688460f.htseq.counts.gz	8c0b6828f196ac77324c732b0e607a32	257230	live
4b04c049-ddb8-40e0-9dc1-40398ad73945	f9e98164-b7e5-4d58-a4ba-d6947d832088.htseq.counts.gz	34adc7c8fce4a7c5dca251545c063d9d	248295	live
4b074df7-38c0-4092-89bf-0aecd5f9b15b	d88996bb-af00-4040-b251-29807506ac1f.htseq.counts.gz	29d2f1b804a0f6f575a02a5ebfa64ffb	253035	live
4b708912-2f27-4ce4-b378-b7cd1497b169	8789d75c-8207-44bf-a34e-985440406b34.htseq.counts.gz	18a0911e08cf9afc38671f05586878e7	255321	live
4bef5c4a-8016-4840-a8dc-25f5e294c9d7	f771854c-24cb-499a-b13c-b2fee71bcb39.htseq.counts.gz	515cb28f629764c42acf108589cae673	256336	live
4c93f570-d3e6-403d-9062-64c9962c6a2e	38a90283-962c-482d-99f1-bcb8cfb568bc.htseq.counts.gz	535c17bc6884d77ed583eb390e79f538	253428	live
4cbde4be-5de1-4fda-9192-66c2508365e6	8236e9a3-ea00-4a0f-923e-40d55c300a83.htseq.counts.gz	057010f19cf2acf73058f89ffa7684e7	252772	live
4d811789-29f4-4498-b4b2-2cd5456562b2	a60560b3-962b-4155-8aa5-46c8a5aaf9fa.htseq.counts.gz	2d537d09944302e219a2dea720c3ed09	254884	live
4ed00a32-79e3-440c-9550-36954379bee7	21df2113-117e-429d-bf2f-5812800add68.htseq.counts.gz	02df08502a2bb0ddcb9862982974a9ea	259241	live
4edbdb5b-ed0e-4ddc-8e43-16dd94f09bb6	6aa7ae56-0370-41a9-9286-d4795e06cf5a.htseq.counts.gz	7c3b3d07ded3b7700f37992aec9f7724	254387	live
4eefbccf-876e-4e1f-bec6-6cb67a68bfbe	df573c90-44cf-4409-b92f-f6c8aaf01737.htseq.counts.gz	edae296370a8e38c2a9683ed3910d633	252082	live
4ef14236-2afa-48b0-a570-66f77a7657d8	2692d2ae-3785-49ac-9431-37d36bd5dd21.htseq.counts.gz	484cee72cdebbb57f2b136a1fdeaffb5	252198	live
4f78d095-8d26-4602-b425-956a6b8bc6c6	66777578-091c-48f6-a0af-81353b58304e.htseq.counts.gz	e9f2b509a258b624596aa9c6a202c125	252470	live
505ae1cb-2b1d-4d78-89eb-33a115befa9b	ca8a081c-43f9-4f6b-8736-64eb61cd72aa.htseq.counts.gz	781ce166535d67500d5a6eb07cd1c20b	261198	live
50b48a7e-8dba-4316-94b2-42f0b1b16e1e	bcc63e30-8c08-4767-85a0-69433319bd21.htseq.counts.gz	f9ddefd63b8e36cdcebc7b65ab2de988	255409	live
50babe1c-7f49-46ba-81a8-4ed21b22cbde	03bab812-d67c-4dae-93e0-55346525fc99.htseq.counts.gz	9d571bf21dfc567a00a638a8cbce2f08	252353	live
5100188d-198e-41e8-bc31-15e3c77f3e0a	f577a186-ffc6-402d-9525-0aca8eee4de4.htseq.counts.gz	a842e6dafd55e673ab586172d5af30d3	239893	live
513c1968-7f30-48f7-b6eb-6fb6c4897760	42fb1a46-4a61-4d2c-a89b-0492e4846d1b.htseq.counts.gz	33de053598c09f46783884794b76acd5	248183	live
5156a5dd-7a31-4a66-a8c0-49c9b4ad38ba	2087ef7f-0932-4a43-b402-d401de95f0d6.htseq.counts.gz	db3edfd79056b4f70ab42f566dcf81a0	247631	live
51cf6da0-aa2e-43cd-b72e-5b5901a93348	543d90e4-9064-47c2-a68d-fb123f627977.htseq.counts.gz	988aadb3d2ab5717a0c947eb96a8f72c	259435	live
523519fb-d348-44cf-8238-3f52556b176f	3b832dcb-860c-4137-8406-d338bd421bcd.htseq.counts.gz	b8708566338caece51fe0996fcfaa1fd	256068	live
529a8d34-ddc4-4ce2-8ca7-fe12c708801e	ab6f6f5b-f5b2-4da2-ab37-6b9bf6ea0b77.htseq.counts.gz	88320ebfcf70da56082221bde0e8bf1b	252068	live
52a0e767-d4db-4695-af3b-ec4a16d9fbca	a8165949-f924-4c32-8ccf-4109d2899e66.htseq.counts.gz	10aaba6c3115c77e8c73f0c850bc4891	253907	live
52beee18-183c-455c-b4f1-56da25c6fc9f	14ce8586-4131-4f56-b516-f640986ba95d.htseq.counts.gz	991c811588a793a64d0d284ceac64c16	260237	live
53091e59-6615-451d-94d8-0ebc8db24f97	63404d01-9685-4a55-9319-202e5f5abf79.htseq.counts.gz	5ec7357e9ca5005ad66bb9fb8e340fc0	252510	live

530c6fb3-1763-4dd2-97e2-1f3ea2347db5	567d381b-f753-4975-bbc6-c8daa4ff4530.htseq.counts.gz	9ea164680e3830d70a4fffad0bc68c16	252753	live
530f71d4-66cb-4db5-a9fd-66eddedd9c40	37759f54-5e74-48fd-87fe-630270219430.htseq.counts.gz	384341992dbb29b1e3cb96556cd28a3b	259140	live
5447f2aa-8e21-439c-9d9e-671a751a6f25	1595b26f-d684-4962-b7ee-1f64addc4390.htseq.counts.gz	ee70a1eb91b513b06398c0281fc83409	247286	live
54c52b1e-aace-4b0e-806b-f603c98f436a	382f821a-dcac-4f3f-a180-0af6468e9ebc.htseq.counts.gz	b39f450bd427a775f257cc5e78d99cc1	256210	live
54c70964-804e-4850-a055-5d986a1d2270	302a0272-01f3-41de-9107-554800d6a0c7.htseq.counts.gz	9c50418103316813ede658f790fcadfe	250714	live
5507ba87-b9be-48c2-b9f6-41e6edd4dbb7	7ac46b6d-5042-4aa9-946d-b75a13d3747f.htseq.counts.gz	04727bc2a95e2ec8bb876cdd32466ab7	257497	live
5546d647-b1bb-413c-9de2-728d7fc37f66	1958cf80-bec7-4b92-9338-7a2da94dfb68.htseq.counts.gz	9875c55d58ab98368a862a7281c4a36e	250518	live
5566f355-e795-492e-ae03-fdbf87646d89	b8fb3d69-dcf2-4f8a-8960-8a1da00ed95b.htseq.counts.gz	1a04d343b59e392dc070022a7dec64db	257387	live
55787552-ce71-433e-ba9b-2bfd387891b6	cc53db99-d81a-490d-b6f2-748a286c9567.htseq.counts.gz	7382e2b7d8e976dd70f869a163a1b74f	252193	live
55e0c52f-8c8e-4200-8f40-f287c07d318e	b1fc4b98-8e85-442e-9204-d4e5dd4e6bc5.htseq.counts.gz	7c6655bd833465f59cc945e152e2de7b	258731	live
564b4d8b-226e-4acd-801a-4247e4f12302	34e77fac-9e4b-481c-9a6c-a1b5f0916f06.htseq.counts.gz	f2ed3f963ad58271fdb4b7c719a1cd52	253286	live
567a7134-365f-41e4-8e17-5e63c03220c4	2879c545-184a-4e1e-b476-b824e2121389.htseq.counts.gz	52504326c871a1bbec137f44a36621b0	260319	live
5802775f-b9e4-4b54-a437-b5c112f04ce8	84d835ed-9e38-4fb0-8596-df882698107d.htseq.counts.gz	697a9fd2b5e9a5f267ed887e3deb0cbf	257900	live
58083a19-bee0-4fac-84b9-807b9e1f8a34	2147de22-3a52-490d-a4f6-32f6637ca24f.htseq.counts.gz	93a3604ff4010a76bfb4f3b71a1d726d	253921	live
583bb6c5-1cca-45aa-9ba2-cc8bc61c9a4a	543ed507-fee0-40b6-9a99-e59310620d63.htseq.counts.gz	7b6966004351677f120df93cb67b0e08	261429	live
58eefdc7-1bcc-4348-972a-b71fed6f6554	d20be26f-6289-4b94-8724-e63e3f0bca1f.htseq.counts.gz	9026654686d3c19cec0788d8c33ad414	255249	live
5944024f-7687-4b2c-a9e2-ca42e6612f97	a87961f7-7a05-4248-a683-7047af4ea194.htseq.counts.gz	3ccfecf2ec017e247611651da1742e47	249215	live
59c0b8f1-749f-4204-95ff-fb93bd9a641f	b05e09d9-71f6-4f2d-a7de-83bc7f5131a4.htseq.counts.gz	1e3cc6238032f8556445a3a89ec18d1a	257851	live
59c18f1a-9a73-444e-b8db-d4b1ff00f486	01ae4201-f15c-4790-a7ea-41290808c5fa.htseq.counts.gz	6b9ff5834c9419480444b1a9cfc1c9a2	252320	live
5ab8d619-fd3f-4470-83d7-d18674e1dab5	6f141f5b-bf1e-4b4b-8a9e-b4edb0d5cbd9.htseq.counts.gz	f12cd0aa8be797d678479f7bfa6d5488	253252	live
5b3de248-af0e-4989-82d8-62b39c3ad03f	73516997-7254-47d2-84b5-6d81bc84c077.htseq.counts.gz	15738ca109718fc7903e9a24f08487c1	257599	live
5b8fe43c-525f-4606-8e0d-05c9a77e6155	ecbab673-6313-4396-86aa-b06c67513c3b.htseq.counts.gz	4d9f58ca3bcf43c10ab0b840ee7274ce	253196	live
5b9aec7f-1288-4ce8-a64c-f691f7e70971	17f1e25d-0177-4bf8-93c1-8d80a41b3164.htseq.counts.gz	1dd8bccc6bb4f3c3cd67402f6d2b7c4d	258677	live
5b9f2d61-9ff8-41c8-b944-e52a21137409	baec18f7-38ab-469f-bdb9-8ff04883679f.htseq.counts.gz	a4866dbd3593439f0a34ba05839e914b	252377	live
5be42516-6169-4d3e-9b23-eae43b6ea61e	991273f3-2fd9-4c40-b6b3-2d8676b210de.htseq.counts.gz	60cae7945163caf88d50c2292340538e	255070	live
5e4711a7-9e19-40c8-81bf-9b41e1bc56ad	ef6b65f8-e67d-4584-9042-8ae5dbdc845a.htseq.counts.gz	98c11d27b742a1769279c8f6afeadda4	256832	live
5eee6364-e788-4109-bc9c-569d43bd096b	677fb228-6830-4402-9eda-c4a0e975c189.htseq.counts.gz	674cf617d2e1fc930564b31b4c056526	257655	live
5fd3546f-a615-455b-b267-1795ad2a6283	22b2ac9e-b6d4-415e-b7ab-7c3c85c8d215.htseq.counts.gz	2fdf822e29128489704622624d050551	254567	live
607df120-06ba-4e47-89bb-fb472451d77d	188c9f08-978b-4e15-bc70-b0c6e9563e3d.htseq.counts.gz	5d8c7bf26bd2bd2d776ac2c8b023af5f	254085	live
60c016f7-e8de-41aa-9e77-4f10f94c3ae4	f00b69a3-c3d2-4499-b337-abbce3e48f9b.htseq.counts.gz	371da56293fbcda0b6a7a05c359b424e	252255	live
60d1dfdb-b77a-4b68-baf3-02055ba74154	a842f65f-8e47-4ddb-81aa-a4acff6b4963.htseq.counts.gz	c4860fecc2c9741b094d0a1aacdbd8b6	255271	live
6174bf32-7dd1-4860-b220-793756346901	aa0e4550-bfd3-4258-b5cb-9abe2de4a3e7.htseq.counts.gz	90f90103a9656fa105e76a55d7a28635	253581	live
61b41e2a-a030-48a4-9f5a-53c41d9a8907	ce8ba3ad-630f-4bc7-b8a1-cf8cc5f45839.htseq.counts.gz	73c647ed986107342f8d89181e21c121	256964	live
62c0def0-68e3-4c86-a26e-f9e442620da3	45128466-9a14-4348-97f1-d08af79acbba.htseq.counts.gz	f59cbf9390fcb47548610b59ab05e8d2	257076	live
62cb41b1-8960-4fa2-8f74-38dd174af004	1ef78255-1b5c-42af-aa81-128c1b009114.htseq.counts.gz	4e139effd7c17a3b6f8c8a2dcf1ba2f5	254786	live
634bb31d-2277-4e91-a1e9-cb5824dea2b1	6e2447ba-25fb-4c53-bf2f-4ee1e3642da2.htseq.counts.gz	366128808a96436db4746cc3cf6ec5da	262470	live
635296ad-56b8-4178-bf09-3399e14e3b94	0cbf5cd6-30b6-4121-9f51-e85229b54fe5.htseq.counts.gz	d9b99ad7a9511c20d88d4310a1493eb1	255209	live
6369de09-0480-4c50-9e46-beeb10de1473	7dd92b6c-ed0f-4f93-8a03-0fb8eb318d83.htseq.counts.gz	a611c066752c2b0a0e3b51b90736d0fa	256766	live
63c52fe8-c669-4ed1-9db1-35dc46efe279	dcfbb975-9b59-4afb-8735-84206200af7a.htseq.counts.gz	7c1b46e1bce5082b62c9bdc8f334fb98	254227	live
63d9dd0a-3c39-4aa4-a0c8-acee27a08bd3	5dddcbc8-e340-4c24-96eb-6fa7ff9d757a.htseq.counts.gz	4242af8eaa549694caf1f34266183435	257725	live
63e76713-2d34-4a11-bc5d-8473dd04db93	bbd8991a-fb0b-48c2-868c-7efc4872dcfb.htseq.counts.gz	50d1d276bf760659f7f2d4c86547845d	256679	live
64278ccf-9068-40bc-8599-a165efe64dfc	b36ee0d0-f9d9-41fa-a260-15c1e6d7a1c1.htseq.counts.gz	be1e8aa6d286b6201d2e6265ffc2e36c	255342	live
651d7063-0803-459e-b03a-b2c81ddf87a5	f0ce3674-e566-474f-8b8e-96c467e3d7f5.htseq.counts.gz	e670743976100e303c597f1054f95f78	251355	live
65473986-e4c6-4a43-a788-8c59bfbf166b	405e401d-d3fc-468c-8c63-c8dddf9b3ee3.htseq.counts.gz	a777d2e4fcce5fb923c32f8ddca03c00	247594	live
65bb4c18-acb3-4caa-835d-075d2d6a20bf	cf503a9b-6af6-461a-8833-a6d26c99bdb7.htseq.counts.gz	d81a855704148aa79e10594e86a9036b	255624	live
65c657f3-fa35-4f87-8514-caeb341c9293	b125b3b0-aa59-4e92-9a19-47d5049f7737.htseq.counts.gz	3f42dcb1bfe4f0380485bf0f967852b6	247726	live
67315696-e123-49da-a378-12a5544ae703	8f16590f-2437-4c68-a2bd-8406b08198ef.htseq.counts.gz	388df725e433706045f8ca3eaa4254a6	252314	live
678cb666-4cc1-451f-a1b7-c213e23ce3a3	677bb05d-81de-4202-a17b-bc39fb1bfb5d.htseq.counts.gz	d7b0382a297447050295e91181a278ec	256698	live
6885307e-d340-4974-b0a9-ec1dd4acea02	d1c88616-a6ba-4865-9cf7-deebbafa4924.htseq.counts.gz	ab4319f9368126eee6dd27d5fecf32ce	255344	live

691f2b1d-4ca2-453a-a473-a5e65c441b9c	8f6d3839-330b-45c7-86e5-1b9051a2c9f0.htseq.counts.gz	5992c0cf1287f6f7aad91c14c8103343	243302	live
69444918-fd2d-46d7-9f41-ab01f1fc5920	61c7c0b0-d730-4d67-b1b7-c267124d4e1b.htseq.counts.gz	91bde0818c8a45e2aa3c933787dfab12	250857	live
698bf6d5-b61c-4e8c-bf78-839b3a1f8fce	bc2898e8-56c4-4e12-96ee-720ab9d4e958.htseq.counts.gz	88821899 1204179464e74b5685e5c0e1	257422	live
69acb9c5-b27c-4de0-bb0f-8f65075f3dcd	c2efa14b-f441-4249-87b0-56d88d760a82.htseq.counts.gz	7fdb414cef60d52b9c99ee3bfbf6cfc2	253286	live
69e77596-c3af-4288-b12a-87bd0f2cc88e	89528cea-b21b-4ea8-a271-3d3f3ff142c9.htseq.counts.gz	add84146402a3664ae3558390b8e9cd5	255504	live
6a0a533b-d334-4ee6-be75-974f946047f9	149c3888-04c2-4701-9217-746e05c7b346.htseq.counts.gz	e72464df0ca9b7cfb50ecb1a348aa9d4	258666	live
6a951a59-6f84-4696-bd66-e401c67f2e2b	ca5b59a6-b523-4f32-a542-8a467b591f67.htseq.counts.gz	97e7e2eea20a63ecbe2fe9a059757103	258545	live
6bbac5ba-305e-4df4-bba5-30460f7f766e	d9c6f1ad-5c45-4831-b152-ad05648104eb.htseq.counts.gz	cf03aa95f7c52b3516776532c84a3877	257530	live
6c2e6502-5c9c-470b-9f6e-a60191933085	bd557612-d93b-4524-9a53-f637c6f4c34c.htseq.counts.gz	bbf54461c938d3d2c3eec9d40886e50b	250789	live
6c48fb01-a98d-4dd4-b53d-61518187a5a2	59fec480-f2bd-48d6-9c0e-a84ff19f916e.htseq.counts.gz	4cadb2bda2e7363f738e6285d0fc3088	260941	live
6c69d811-6b68-4c52-b8ac-d917c3bc6e72	692302e6-386a-43ff-8792-cb84a07896ce.htseq.counts.gz	1a8a63907b506fbcb46fb8516d3ec913	260216	live
6cc52332-6b4e-45d4-bdd5-75e836df8ec8	156b326a-3fa5-4394-af29-7db1c2f3463b.htseq.counts.gz	e39c215e271108cb05fe01963712dd93	259800	live
6cd66413-0b10-491e-b996-9be29499aefc	eff473b1-657a-4004-bbf8-c48f948e4e7d.htseq.counts.gz	bd32974e96aceeef4ab2093b1f7f32f2	255961	live
6d465b7a-a873-47ba-9436-bacb9d965144	3704029d-0bb1-40b5-b666-610174d521c2.htseq.counts.gz	1899144df2b3f048ca091397d6133287	258211	live
6d689ae3-779b-4396-ba54-dfee715b9ea9	6b8fbd86-ffe4-463b-bd1e-5fe3249f9dc9.htseq.counts.gz	7b8b982a98a65bfe1208ba35ee1723a3	256325	live
6d9015d6-2470-4ebb-8e07-360cde9ab13f	030a2cdd-9b0c-486f-935d-6049f41a85e6.htseq.counts.gz	6272b34a2d3a7f3bf25240eec0a5811d	252296	live
6dd83c4d-fe7a-47b1-b2de-92af75291c78	ae2e66c6-a69c-45c6-8584-82b4da9899e0.htseq.counts.gz	0e728a70022839ec963737b03e21f76d	256713	live
6e0004a3-b733-49db-a98d-3963275eee8b	fddf0083-59bd-4352-8e3d-7e5715f6d5b0.htseq.counts.gz	dc76c6f5ccd81f4f269a4f597c78686b	248531	live
6eed7a27-587c-4251-8693-da0958266511	66827b45-d9f9-419e-b4d7-15504dd24b61.htseq.counts.gz	6b182bc37e92a58fb440857e67cadcd6	248781	live
70760e66-a67b-4c8b-9d50-87d9ad3932a3	13b5e39d-2163-4d59-9013-a1813c6a548e.htseq.counts.gz	2c3e962dfe998dc49270abafb58556ba	251784	live
708293c2-ccae-493a-93e6-a2426b7c5fb2	26dcc91b-b7d5-47c1-8135-e5ab4f4e4be5.htseq.counts.gz	606d9e16927f077cf876ac618f77675c	255371	live
70aeba23-29d9-4d55-bd66-353a7a497124	bb216d3b-cacc-46df-89d6-455a5831a8f0.htseq.counts.gz	5ec450c860dd0a74c4f0285f5209f384	255346	live
70b9245f-9f32-47dc-89bb-ea1d66834284	590db39a-029c-4f4b-9bcd-aec5d18580db.htseq.counts.gz	3872b9261c1eecfa43f98a60fadb3a80	254391	live
70f8f9c5-b827-45d2-ba9a-5398c7a132f4	1f578919-3fbb-4491-8381-46b097f5339c.htseq.counts.gz	f532af1d790a0af0c32ade23148a459b	254582	live
71399d03-de4e-4926-9342-27db6f1a2040	20cdc1be-7412-4457-ab53-90dcfdf26f93.htseq.counts.gz	bdd8e8ceda68db3422f583da4a031ee4	255274	live
71668b57-2750-4f49-9ab7-098d66aa9c85	26a6f9a8-7fb5-4a18-bebb-bdb9ad451116.htseq.counts.gz	da5dc60ea7f2106f3c0d7139e3d6986e	255048	live
71b0dc9f-2cf3-45b3-a276-2c80661aeece	76b4e454-8b75-449b-98cc-3c41c5e063a3.htseq.counts.gz	3f577a820f3b7c6cd7a8b641054b5a49	256232	live
723cc65d-b933-4eb0-aee2-f0f09a7a7fa7	c649047a-3991-4eb0-847d-07cee766fcc2.htseq.counts.gz	bb60e9acafd34b49cfe74f778c39bdcc	254600	live
734e8153-e7eb-4cc5-b865-e8333c0bfe72	8d39e856-f93f-4eab-90ef-1e924b059fee.htseq.counts.gz	8b79695db074e69a4cc03f0eecd980bd	254362	live
749e672e-efc6-4031-9030-da67da09fe25	06ef2a8d-3ab3-4e88-b72c-a4317d5e8a52.htseq.counts.gz	af40b9a258f2c361e9e8c182ab814b17	257856	live
7522df25-ca43-4c55-b374-e417b59917d6	d493f215-ef46-4631-8687-95bf16692e3c.htseq.counts.gz	e32e8342b44b4f2aace1b38461d343cb	255804	live
75f20f0f-6df4-410f-bfcc-26157c7294a9	f83b0459-e485-4988-bdce-5a217b454d8b.htseq.counts.gz	3792d7d3a2f281b267a919e3dc67c7c9	254906	live
7626f8a4-b30e-4049-986e-189bd285ca00	3d118af2-5f3e-4b03-90bc-ec9df6792742.htseq.counts.gz	1370fe2350ffe3c467debdc0a548dbf5	257976	live
763f26ec-76dd-45e5-bae3-366d63700538	c0585219-4f92-423a-94bc-249d4f8c3b35.htseq.counts.gz	4a9930dcbd04fbb2e58747eaef19f7e2	254712	live
76e96a4f-84c3-4ab4-af5d-96f6880a39d2	60547e35-d42f-44bd-a9e8-21d57da93ee8.htseq.counts.gz	2728cb60b245ca28b0315a67597d7247	260510	live
77de8bb2-383b-4b27-8ee6-00dade87b4f4	bed7e30b-bf94-41d1-80f6-0595ff21bd3e.htseq.counts.gz	2d9a5a4b3cf08e6060b2b4fe1347d794	253259	live
78247fed-8c1d-4db3-9dd0-c245585de8de	73461d68-f3c8-4a5f-86e1-44f6f4218ba2.htseq.counts.gz	d30ec66affe0665c9fc582d84b924813	253019	live
79105c1c-9ffb-497c-a160-cb84ae5bd34d	536f6749-4430-4c7e-93e3-c60e629c502c.htseq.counts.gz	f70e74c9a0a83cfc6808800b7615851b	252477	live
793e01d0-1963-426d-8ad1-7b35396b919b	8e8191bf-78b4-4d5d-ac02-153528aee2f5.htseq.counts.gz	3895420aac59b048d1b8d93ce49f2cf4	258084	live
79b1a50c-048c-4985-9671-279c9ed6f069	bed41d1f-443b-4abe-917c-e79f03bf2ae3.htseq.counts.gz	ab873c21564f70b2caee872234c92dc0	253231	live
79bee50f-6854-48b4-89c7-a9c1976812bb	3a8bb200-5964-4ae2-a656-c1dc40c29d71.htseq.counts.gz	fad40ff34b096b419adf1419ab683977	254493	live
7a09718c-10ed-4c2d-b861-122e963f3768	16a68a25-25ca-4382-aa32-14f1428ac05c.htseq.counts.gz	f3ccc12d5f1a7115742d06284d06edf6	257262	live
7a2a54fa-d140-40c5-9f18-83c25d84007a	2723b8fe-33ae-477f-ab0d-f5685f26b17f.htseq.counts.gz	ba981f6155834c2c2c7ac1bdaedd635e	256212	live
7a9c854c-96b7-4f2f-b79d-14faed6decac	cf8cc0b6-be04-4f59-9baa-7270aa0fba53.htseq.counts.gz	207b0c37259ecbde84703f457294a98c	261115	live
7ad690c5-2ae1-4433-be5d-755b3d97c330	fe1e1f62-8e18-4400-9b25-2c439fa25b6f.htseq.counts.gz	39f919407e931871f676e0f9f00c38dc	261204	live
7ad72144-0360-4b38-9987-a560b14d679c	6993764a-2359-4e76-a325-b040e97648d3.htseq.counts.gz	e402924643542ca15d7c91cfdee11592	257813	live
7afe54c7-6137-4831-8c4c-8642346f84dc	8a5ed889-bb3d-47a2-bd2a-0a1d139a3809.htseq.counts.gz	4dfdb3fa14c3f7cc6d0d078ef1c954de	256413	live
7b3770b4-f586-43f6-b31d-c735074566c4	9e4f3e3a-842f-4ece-b70b-9e5e9bb12af0.htseq.counts.gz	469c7d1e1f49b1458d0866408b9dd89d	252715	live
7b71cfe6-4fdd-4c2b-9b46-d7589c896174	0ade05fe-5f98-477d-b7fa-c56ea93247cf.htseq.counts.gz	4ce06bec84d7d0ed8485f202e7d52ce9	250633	live

7b8aa852-9c34-4c42-ba2e-69983d97a253	c111fbd6-cfcb-4372-b630-f3688e26427f.htseq.counts.gz	9e0f7825031ec87a00e532555f69a463	251047	live
7bb08cb8-7a9b-4071-9b8a-49767f251c6c	7c9774cf-1a6b-4c25-a280-8b632afdf8c5.htseq.counts.gz	4863f54a530bc8affdfae91be903f30f	250190	live
7c33102a-cbaf-4884-b54f-3eebff36861a	d8f882f6-d25a-42dc-9444-02e1d8cb7608.htseq.counts.gz	314eeb6b13201bd185dcb21f3815b95b	248166	live
7dacb76a-2082-4023-9a4f-c3d7a6e0c576	531bdb39-8e5d-4817-b5fa-a60ba31296a0.htseq.counts.gz	3f4d8a7d1d263dcd31547f6eb1664064	260050	live
7e0e4dd2-7337-4ea5-a0bc-5abb6465202e	baed5b2d-e928-4f5f-be13-4c592b027c29.htseq.counts.gz	fcd78eb48b17c2ff9b49483ed4cbbfbd	252968	live
7e52e9d5-4dd7-472b-a603-4fd9cc3f5f84	6c2a30ae-9435-4d9c-99dd-59d8d77f3920.htseq.counts.gz	a3708cc2024f4778f373a2b9fa2ba0ca	262474	live
7edca572-422a-4476-b411-551d04fbfa2b	7a43da66-e219-4bc3-bddb-ef014247039f.htseq.counts.gz	c3d7bcd25f777027a78fd5ec841e66b3	252071	live
7f760e65-1afc-4448-baeb-1c086e5d5c94	eb70ccf2-f854-4d99-92a3-f02ba2b3c770.htseq.counts.gz	97c1bca7d4c45f0dc2213ff6c29adecb	253653	live
7ff9762d-ce07-48d5-bbfb-3e9a2b0f2645	21afb538-3284-4897-ae1b-ea53a3209920.htseq.counts.gz	45d07b85ba31521ecb98ca3f92f80e4e	253694	live
80d396ea-a445-4dc9-9555-812208a31019	c08817f0-fc05-44ea-8a92-8b7538ac49d8.htseq.counts.gz	c0c9d5474b4652e84471c3f08f287546	257046	live
816fa6bd-9e0d-456c-8aba-2c922e1f5665	4d813387-15db-4d2f-bf85-1c79874aa179.htseq.counts.gz	1a4ea8306a3c5c44cac7b63f53d68f0c	257028	live
81791559-9f71-4f97-97b0-fef5e92278fd	5c389a62-c076-421d-9b55-03a6a44a7f32.htseq.counts.gz	37ebf01583881e917c7775c005465bce	258684	live
81a1152a-153b-4e12-be1f-1796108d1888	7ebd35ca-8fd1-4f22-a38d-122537b65bc2.htseq.counts.gz	771cb05dfc57f6ffb0a8ecc002272f00	263478	live
820c84ab-872e-4c38-950b-30c0c7773e25	8c063b2e-61f1-40ef-9ec1-5146d1c1855c.htseq.counts.gz	323c64050dc3e92ebed0a5a666df5507	250404	live
82395c09-9c92-4257-b30a-a87fd95aebbd	a8ecb5d8-ece5-43cc-843c-da81dc031ced.htseq.counts.gz	0bf545f22286a8cba2c05bb6d85ce118	248673	live
82646973-df05-4938-95a0-f6c6ab3745fc	32a5a64b-7150-461d-859c-c40c6e92ba4b.htseq.counts.gz	12b419404eab73ab74df69110788caf8	250306	live
828c47b6-f99c-40de-82fa-784c50c62554	28d619c4-0511-4db1-bc3a-7a1c9ceec662.htseq.counts.gz	db14123b7319b225413bd77d27a5518e	256477	live
8339fba7-029b-411c-931b-c77b9f17d398	7951757a-ae69-49be-a6d4-fd0b123c7665.htseq.counts.gz	f481be9986b859ad700c49afd0df2c0c	254487	live
837705e7-ac01-496c-bf82-4ce52b1b03d0	372456ca-f3d1-4134-8a9b-78cae87897fc.htseq.counts.gz	01f763c45ee4455dc29234efcc481f75	249765	live
838edb09-aee3-4364-8f0d-00e3ab3009aa	b1dc114e-a2f2-4da7-8fda-ef83339eaaea.htseq.counts.gz	5f1ce1d660930ad7a2fa2f47a76b74c8	254671	live
8439d23c-d1ec-4871-8bcf-1f6064dbd3bc	6a058f09-eac6-40d3-a24f-da1cb0371a2b.htseq.counts.gz	1381832f752869ead9c953cb6e8df27f	261665	live
84adce22-fd45-4422-85ec-b2636ddaac82	8bc4505b-bcb8-470a-bc52-2b8f6a4cb4ae.htseq.counts.gz	e2d6909300b250fa77eb663c87122a24	256740	live
84cbc6a0-8a23-47e4-b96b-678d0da7f096	b0f16882-207d-4334-8d7e-a338e03ad30b.htseq.counts.gz	0bb01b8cdebb5c50aef4917a68cad550	262325	live
84fdf46e-bfff-4ec2-a9fa-e05c816a7a80	a2225f76-3b17-494d-81b6-5c68b73150ff.htseq.counts.gz	ab29ef6fe982f6cd2612ad5e0c4e04f1	254104	live
854b59c4-4ea8-43af-8f77-3375361adcfb	df6c9ff4-db5f-42c9-a98e-91d2f4f14ee6.htseq.counts.gz	2011ac5da736afeff74672e4a3a87720	255191	live
859a2d4e-5349-4fd0-a77a-23c3a3dbdfeb	d7984046-2ea2-4b2e-ba78-2909ed46f649.htseq.counts.gz	737e98e902dc52723a6467aa8ceb4f0a	253069	live
85cf33d2-ac70-48d0-9753-7019e4be5a7b	58ff1a2a-76d0-4727-a749-7c9cf1bae05a.htseq.counts.gz	5d5ab736b353942b8b841b3cf00d8230	253859	live
864ceb91-1043-4dca-8e02-d2cb9d96ce52	789c658e-b98a-4e1f-b808-5579dee94abe.htseq.counts.gz	3a21a3384c6cb4784a619407b68c6807	254590	live
86bc0e79-dc44-4bce-b9e5-c812690abb94	5a32f784-3eb3-4b15-9ce6-1cba8164e812.htseq.counts.gz	9c828b0c73b221a7e0ec6ee29fd9a869	253958	live
86c8062c-ae80-45c6-a35b-591043a9649d	ae08d16e-0df4-46d5-a837-1c22d41ec11e.htseq.counts.gz	3d9a38ff744574247c2c033d1db19227	254169	live
87675b82-6805-4808-a747-f68d376de41b	862ee0a5-794a-4bad-974e-84b341fa7d50.htseq.counts.gz	3d19db8f92741c4e33218536deea056f	262048	live
87cd130b-fdd0-4b61-8df9-fe953e74b842	cde6e107-8870-48c2-85b9-c0f1d71bfc0e.htseq.counts.gz	2a145fea5a49131f9ed1567fce6c4073	254688	live
8810c8ec-bdbb-4b02-a641-5e8a95b43000	1006434c-1c1b-47a3-bbf0-8d331d8e1722.htseq.counts.gz	29f629ec2d144bb603aebdff6c1dbc18	256983	live
89dd8990-3c51-4e02-99ee-226f0a2f4534	10d26b59-35d5-4925-9f28-6d54125ad67a.htseq.counts.gz	176c0d70e47ca76716ac9d4455a6e034	253292	live
89ebad20-184d-4f5d-818f-b815f35c6121	6d221ee7-2444-464e-9782-e83df2e203fa.htseq.counts.gz	14c39ca303e88cf75e416b5d1b8f6fcd	260402	live
89f03f02-d560-4610-a704-517119e89e72	68e11add-9274-45d8-a789-1f475e781cd2.htseq.counts.gz	09acc17afb8e92ed7825c11d2ed74a1c	256409	live
8a601a1d-fffe-45d4-a3ff-21cc09679129	de01576d-54fd-453b-8e13-735d8936b171.htseq.counts.gz	2f5d46cf679178ac035f40bc3ab5b8b1	254355	live
8b8b03f9-bc81-4a19-abeb-66ed6f81800b	9f7c8176-5349-4bbc-bf0b-96b2e01e09fc.htseq.counts.gz	dfbd83e84a020e6f74be79f7002a1416	250982	live
8b910d98-2f69-4633-8841-03cfe006aa31	b197f3a7-4bb6-4e88-b1cf-9ad513873739.htseq.counts.gz	0c574ee5645901c9fa3a26ca5da42d0d	250801	live
8cb95e28-b994-4b8c-aa15-9a97691a96f1	f59733cc-e2d4-497c-84a0-5ab4fdc47a4e.htseq.counts.gz	f0784b47e40a694299ae60fbac1d4b28	261226	live
8cd648ba-62aa-43c8-8ff9-5fe920602f70	725c494c-5cc8-4825-a992-b98d61f57046.htseq.counts.gz	bdddd0f760f981094a3bff8db5574921	255520	live
8d24d093-8dae-4f84-b611-d27d2869475c	d07bfce9-a69c-4124-9264-95582e2d7cb6.htseq.counts.gz	fb36805e5cd2ec2cc9687b9a2354eff3	256917	live
8dc02c13-e3fc-4f11-80b0-13321530cd34	a86ebddd-ebf1-4e14-89ec-de8b0dac02ff.htseq.counts.gz	e9814f689c0198d548a12323965d1974	253946	live
8e6b3ef2-fe39-41ee-9826-eba3e772efcb	309c2415-06e2-405d-801f-1d8ddb89c0ba.htseq.counts.gz	543d660802d180460f077e90eb900b75	254313	live
8f0e750c-2b34-409b-9b9e-78d01ab0d797	0062bf7b-fcfd-4448-be8b-8c6b1bc643a6.htseq.counts.gz	dbd24a1d4ba4605d1145e422a1f6b3aa	259769	live
8f157541-034e-41e4-9f61-1dd49fe9a4ea	374fe62c-139c-472d-8fa3-b34d22173a6e.htseq.counts.gz	a801b6c7260d38ac9bda0a6123851b68	249334	live
8f565575-c559-4c41-af20-76741f4c9ecc	f8089187-0d81-4e94-92ae-3f0178ce1790.htseq.counts.gz	a9e1c55df29d3881cc7bb67f8856d524	252134	live
8f874398-5238-4892-8c91-5579de369029	6073b31e-7ce7-423e-a9b2-a85e3e9bc62e.htseq.counts.gz	4e79df5e2ecb6ca1e73cc6a2a0ac4aa2	257113	live
8fa69e0b-289f-4ae6-b8ce-3a0cd72df619	345cff8d-f361-4f8e-8221-9e310ffb1956.htseq.counts.gz	7d99f1c00a0823f0d40dfd2254fd795b	263970	live

8fabdd97-7f45-43ed-8379-4dcb7b743c07	0fb0526a-42ca-48b8-bf58-f9b39cda341a.htseq.counts.gz	9c65aea4003a7988dec0c9de54122696	257705	live
9013f98f-c521-4721-ab44-55c07a5b4d12	2c16cd9b-3898-4808-b88f-d22a1bea6e8e.htseq.counts.gz	7beff0185bb65717039952038cf65cd8	250815	live
90845af5-9685-4ec5-ab05-4dafc85d1649	db4c135e-dae9-4c6d-b765-4a212cc3e13e.htseq.counts.gz	5f8a5023a660f26bb888396a22d45377	256941	live
909861d9-1811-43c0-9a69-082dae07bb07	10f64bfb-e4ca-4426-b936-36e4c1c2cc2a.htseq.counts.gz	a9e6c57d242745fd7eb490ea06dff177	255407	live
90c1150b-96d4-4d4f-a5b1-650bb7862f96	fabbefc8-53b5-42e4-9a54-39280d18f419.htseq.counts.gz	8972a25a1f0ebf2c712296c8dde493e2	264391	live
91371b7d-ae4d-4e9e-9324-84af7792b52f	b2842754-010e-4f64-905d-89ef3eab3dc9.htseq.counts.gz	e694344450bd833a32175c07a6393e83	261405	live
913db21c-8ea3-4375-a224-1f698d2be67c	7563ddfe-268f-4df2-a502-dc2284d8a02b.htseq.counts.gz	213a164868caadabe73f0c97054312e3	251498	live
914939b1-a85c-4e7d-b312-164f1adc9d9f	590ef909-d0a1-4e19-a728-d6a8b34c9837.htseq.counts.gz	e868c56b372f052223770cf0d70cc287	256796	live
91d89a81-a36d-40e2-bf4d-0229ec68bfea	ed167176-8e4c-464e-b18e-ce6f1af4428a.htseq.counts.gz	9e1b899dca79bd3a188a83b0cca42411	253319	live
93289a76-23cd-42b1-9ad4-464a8f8ec5f4	3f525b6f-e66f-455f-90ad-8adc27da7045.htseq.counts.gz	4b3d0397bbb44b9a0650f545429b0b6d	246497	live
93962102-b84e-4357-ad87-6450cdd2fd55	9cb330c1-982f-42e8-9779-ac4377259162.htseq.counts.gz	b33f9525b2b9658baa5b5b736b04518c	255502	live
93c35d14-607c-4337-b1a0-cf01d836fe57	74820fcd-2e21-4de7-aabf-bdea4842046a.htseq.counts.gz	bc940bc3c6fd5882f508618393b56d38	258733	live
94484812-f621-4cec-93fc-253e89b46cfe	677529b6-20ca-4cf9-8c71-fb7bebedbd2f.htseq.counts.gz	ceef5666d5b352bb84d03b8cf8119210	253483	live
94613cde-bc85-451a-9f01-4d0a74af6443	275f4377-31b7-436f-bded-1928c2b4f8e1.htseq.counts.gz	74ec4d4a16c7be4f0db7809d398c89a3	261472	live
948d9f14-908e-4706-89a7-d5d472c737d6	3c5c3b14-62d4-431a-ba60-cf2eb96d7e8a.htseq.counts.gz	f62603f0aa9e9af4afcb7f8a4e9c9667	252842	live
94be8a3a-0b7b-4827-997d-8d965e675a5e	7939e5e9-8920-4db9-9ab1-a34432830f52.htseq.counts.gz	dd35d8a76e8da10bd4f17baa9097cd5c	257638	live
94ff9179-8ec8-491e-80f4-f79cfe132db2	5a1115b6-f0b9-4912-a493-7b239e3f674b.htseq.counts.gz	c4feb48d2e08d0f3b93f674262bf1da1	252030	live
952834cf-4d1e-485f-93cb-6f3a92056611	6fd0c5f2-a086-4fa6-900a-909cf67ef8be.htseq.counts.gz	fcc9b79c5bdbd509701c7e18aa982327	255577	live
9534c460-7ba0-490a-80f9-d8f23ee1c1e1	78fd362c-5ca6-4190-bdc2-8c695b2ed304.htseq.counts.gz	63f7653858d09cd10674c299d28f32c4	253422	live
95b3873e-d052-4248-aefb-026a74a1a386	e9aa9cb2-b87f-4d1f-8627-11a1c1d900c7.htseq.counts.gz	7927920eb1dad213858ed9d6f5b0719d	255576	live
96124930-9504-4947-b81f-5ff241691f6f	984ea13e-adc6-48f7-830d-66ce450a2ea0.htseq.counts.gz	c4370df6e6da89350ad33d7805bc29a4	254570	live
967a12d0-1014-4d18-a74e-ec7f448f7d45	2113ee53-ea3a-47a9-bc6f-0844158f6b72.htseq.counts.gz	4830febccecb3367acf268873bc9e964	256775	live
96f8b25c-5aae-4319-a099-a581bed7cd16	137d53ea-eb81-427d-ba2a-c346b904bf4d.htseq.counts.gz	95678d5c37f38031b9338ae3ac8c7b4b	255548	live
97241ffc-4360-42a2-8b7f-2155ef1f45fc	130e22b9-5b91-437a-88be-aefaced5bb5e.htseq.counts.gz	1b67a3ba9ab4b2ab46d02555a895968b	254185	live
97664a6b-60cc-4b18-89b7-ec757445d3b9	3cd45be6-69d7-41c2-897a-44f8a70a451f.htseq.counts.gz	60cedaedc4f2b0c65cf3b010310bf2c9	253201	live
97c6baa3-a7fa-4a3f-b2fe-369eef87088c	9c38ed5a-076d-4ef9-ab1f-39814bf665b3.htseq.counts.gz	ca7ce34310e3d034bceb39f4813bafb3	254375	live
97e33e94-c86f-4e53-aa13-6cb1bc443ece	39edcb3c-c9f4-4b00-8b16-17f1909fef15.htseq.counts.gz	762549c0c97f924d87a682d64a1aa8ea	258513	live
9826cbe3-3fb6-4a6d-828d-bacceadc51ed	e7f07f98-8dbf-4884-8d45-318671c15c98.htseq.counts.gz	af334cdb810987804914f9601a836990	252535	live
989c8dcd-2d4b-4591-bf9b-1494168bb1d8	6fd37782-98d7-4704-b046-b18574b65be4.htseq.counts.gz	b8db5bd77a9bd07ca1d8ac795a50628d	253346	live
98f46209-ddae-4916-9fb6-75a45a7ce62d	3ac10a9b-801d-4e87-8b8d-33f1c7eed2bd.htseq.counts.gz	27112ba87d7bf7f396b1de1655d9c5e2	251783	live
99423c1b-2147-446e-914f-084d76f19a3a	92803010-f63c-4b2a-aa02-9914e66dd0c0.htseq.counts.gz	0750dffa5a12a4585d8c1e389228103b	259399	live
996088ca-5481-4bea-903c-99706b97e6ad	b60bae63-d05c-44f5-9551-bb6cc40c1011.htseq.counts.gz	5f978b4d4d327f38e01ffac27bb3ee9f	259900	live
996c98c2-4908-48e9-aaec-1932e2e1ba43	8c4af45c-5747-4cf1-942d-0a7352b369f3.htseq.counts.gz	a698f38abef41acaa84e9f18249decc1	251503	live
99cc5eaf-69d4-4e6c-abc0-7b0b31a823d4	c9c0f778-3b0c-44a2-b182-1959a79972c2.htseq.counts.gz	0a396fcb8d21115533cffe1dd33ee44c	263049	live
9a09d0bd-768a-4ce7-9955-35803ad9c925	78e7d9ea-de99-488a-a87e-c7ff3e3bd8cf.htseq.counts.gz	9628c0cdb96035451ee1438d4c9b3ba8	250382	live
9a4ca3c3-1e7e-41c8-bd28-1589a1c67f65	6e264598-c25a-4d37-aa61-e3042c2265be.htseq.counts.gz	b51d93f6009b7e9928fbbfd51c955d50	255806	live
9aac5023-dfd3-4b10-9a50-3746cc18414d	08e381b6-7100-4628-8ae7-ecdf42827902.htseq.counts.gz	25f8e26bf47e3670d6efbe8e92dba596	255489	live
9b19087b-f89a-43d0-b5b1-42dc01b5e735	42509e89-b487-4ab3-b70a-d3d2fa5f07d1.htseq.counts.gz	51b73e4870497cb7f0c4e65a7cba0eee	253965	live
9b520665-84fa-48d6-b9ff-5c605511fb7c	e8bb4231-35af-462f-accf-a07a1aa9d5a6.htseq.counts.gz	268a89c7745a5039309b326b42c4a7fc	259557	live
9b784df6-9796-4eb2-a954-8c0788f804f9	8a4021d0-bdee-4287-9266-d33e8d0a7407.htseq.counts.gz	103ec7a5d80c693026d36de9c706e496	250658	live
9c546435-1d9a-4557-b296-df0800dfa995	3f4c303e-97a4-4171-b389-0d8dfce24aa7.htseq.counts.gz	8ce298309df5fbb71e01914d8ebb94e9	256478	live
9d41deda-6457-49b3-8ce9-187aea380e13	596e3dbd-9928-4800-8026-6d1cfb9f5a57.htseq.counts.gz	6c08a35e6ba74413604f5b2dbb3f75d8	250461	live
9db8a838-229f-4792-ac18-3d831b6d4d71	0a8119d4-31b0-4c02-8fc8-3180077456790.htseq.counts.gz	f85f5b1c3c103ad14296ae8bb320c691	255903	live
9e109fbe-8a9c-4f4e-8c7f-4d207f4bb71a	ace931f9-743c-4699-9198-2a93bf20b6aa.htseq.counts.gz	46a95bd50e702d37e27e1f90914f5646	257644	live
9e56db88-bdc8-4074-b799-82ad821cc038	ee63ce5d-eeb2-4249-b1d5-2d0b677f77e6.htseq.counts.gz	6e3436f6e5577d746ef25488fb01fdd9	254404	live
9f967f48-39de-49d9-943a-5c77afc2b4ff	2f636668-f8a7-4aaa-a089-b65cd8f5809e.htseq.counts.gz	950705060698b7e0c6ef87a0c300d4b9	257169	live
9fc0b1ed-f3f9-4cb1-be32-e10c3c9ccfd9	4020fb48-41a6-40be-bf52-0e45fa2c1799.htseq.counts.gz	6e78f0114b247c7adf8693d1c1e87141	256438	live
9fedf3c0-6fe1-49c0-80d2-2613bc1c7759	29e88863-d1b0-4da0-be95-d0a82eb1d08b.htseq.counts.gz	43e9ea1bc6b2f7e2b891e3d2b6fe4cc6	250995	live
a0b881b4-d558-4b8c-88e8-9ee8c41ab9ed	c2bbbb93-eb63-4e5e-bea6-202311071937.htseq.counts.gz	211e203ef869982a1fe1da29d76dca31	256408	live

a0bc299c-2df2-4d79-a72a-0c92eec4ab10	5012c1cb-2153-4013-99d7-c8678f6db126.htseq.counts.gz	00ff57d70fc25b1cb3b8ce8330933f6c	259471	live
a0f3eccb-74c3-4009-8f7f-feb637ab2930	99a601eb-cbb0-4460-b9dc-6e151f4ff225.htseq.counts.gz	94ee58b6f4c5004a9175ba7686d653c5	260211	live
a13a1bde-63a3-4eac-be76-49e91f76cc49	063e88ae-7e21-4504-9c1e-45d7d371b276.htseq.counts.gz	c1fadf986114b726adf3f9faa05a60e9	260204	live
a158fa86-1463-45c0-95eb-bf845ce6b6a6	591271df-af96-4915-9e17-e3362bb7f57d.htseq.counts.gz	5b13b29dd058135e519d446afa52c23f	252020	live
a16bfcba-c1b8-4354-96e2-982d51a8d1a1	37a2db43-317f-475b-8379-960202fba684.htseq.counts.gz	15afbd95585deb3086400531cdd38d92	252596	live
a1d698c7-53ae-4915-ad77-6193845b8f33	675bba8c-4d4e-4e8c-b9bb-bcdc13b606e4.htseq.counts.gz	5a9e498cbda2906b9876f9c38c90a65b	256459	live
a1e2d67f-78a0-4263-831c-46144e604d1d	04ebd1b2-5cc6-448d-a351-58cc73a8d094.htseq.counts.gz	fd7b60cd47590e605e4e1064534f46da	260670	live
a2815e89-b3d1-41e3-915a-8719c2275662	d1e05707-3af4-469b-88ee-b37a7b91173f.htseq.counts.gz	6a82a655c3ba114e91830fe20cc65072	256425	live
a2b37f47-4f1a-4380-ae74-54fc6dd86c5f	6ed3d60c-b0d5-4122-a8fb-712c6d2cf80a.htseq.counts.gz	fb5dbf4331c705a96be01dd4e97283da	257212	live
a3022191-6bbb-47b9-aaca-834a736ef9e5	1d619122-94f2-4ced-81a3-475b6a510c3c.htseq.counts.gz	c6e2e006d5fb7e9acd11e28c617d1ebe	253413	live
a44bf22f-622f-4fa4-bbf8-2e228c19acc0	13fe6d54-192b-4e93-92a8-02ab20e589ed.htseq.counts.gz	a02154829b39d717a0ca64202e2e85ad	252402	live
a45b876c-222c-4a29-9aa9-c927f582d344	58536ca4-2793-4c2c-845c-cfd2bbdd470b.htseq.counts.gz	072e871d6fa579358ed40d389ae2d18e	258179	live
a51c2f46-711a-47de-8e9b-2a8531a112f1	cfe84822-f9a6-4fe0-bed5-ee2f44fdecf7.htseq.counts.gz	ee72cbaf3a4c1735fc5a8289815c35a5	255467	live
a5c447f1-4f97-482c-83e0-3f0ed63c9a78	45ca61f5-eb78-4bd3-af3a-9847ac6e1a14.htseq.counts.gz	5d489a6317e7081575c4f7398e8066d4	253232	live
a6d14582-1726-4a1b-89c0-7f2176f682fc	cca451f8-573f-4f4d-b551-32493218d16c.htseq.counts.gz	4d93c9e96579dc4d8a0d968b5bfa65e4	242011	live
a7f99759-8bef-4963-a903-51b0e751c22d	a348da5e-e399-41da-bf2d-79369769246f.htseq.counts.gz	99d205fc8e1381022558ba18380c27b5	255899	live
a80a42c9-09da-4016-97e7-5eae4ff06315	4d83267c-3fe7-4cfb-8d3b-c63370e725c8.htseq.counts.gz	1b471184c62b21ddf840e0e48fa14d5d	257117	live
a865a1ca-dec0-4769-ac1b-1532444843cd	aa90b957-b11b-473e-9280-1fbd2dbe5937.htseq.counts.gz	161e77b99d2442f08d3a0a44eff8e36d	258553	live
a955f9ba-26ae-43e9-af58-edabdd1b645c	454d2d51-19c4-4509-96ad-c400035a49f4.htseq.counts.gz	82e557363bcf2737a8fbe2b3b3088454	259427	live
a96f2add-957a-449a-bb0c-f2a86b91767a	011ee3e1-37bd-47c1-9092-a24dffd3d5f5.htseq.counts.gz	cdf3a12f44c45b23d462614e421983a7	259641	live
ab594e53-9849-474b-99d0-d486f5d8ca4d	13352bd8-ba40-4ea5-a23e-9aa538291ba8.htseq.counts.gz	c78342c7f28a79ab996770b65f2b9432	256014	live
abb25603-286c-4faa-a82c-39113f278a86	c6dbc122-4220-4c6c-bf36-69ff371c5549.htseq.counts.gz	e74e596bebab7e39bc12c96e33278af5	256704	live
ac2a076b-8f33-4526-a43e-5b47606e2d4a	46649617-64ad-4fdb-9266-150e2fc6a54d.htseq.counts.gz	2d92cfd2303a639aa30a4920a35069d4	253943	live
ac9d8c30-c13c-4bae-b3d0-cca39203b39e	c0e81984-36e8-4b4d-8ee9-3cef760ae6c2.htseq.counts.gz	be3a9cdb874f854c091b55c151e6196a	254933	live
ad16fac0-71bb-4a55-89f4-8d25625fc82b	ef700f61-d8b0-43d0-92d1-feec949adc72.htseq.counts.gz	e53f435a045401f2f6b8835fc615804a	255166	live
ad2f7eb3-740b-4446-a22a-5bec94f2f373	29becab5-d444-4165-a8a0-35791c09a162.htseq.counts.gz	72588dec5a8f940a195b548b722777f0	258735	live
ad98cc3a-5434-4e28-a206-99daf9c8c1bc	22d2db8e-f923-4006-baa6-249bccebd08e.htseq.counts.gz	b24781c1f50727522058fa98c7452894	260406	live
ae59d8c1-ffbe-438d-9592-de01b9839411	f78e0f6e-6a64-4725-bab0-9b13ad036332.htseq.counts.gz	d8be937116a33170763d173f29ef90f9	257045	live
af5bd153-c882-4f44-946b-41afbf05072d	3b57505d-cea2-4f9c-8c85-862fefaa5c63.htseq.counts.gz	e3557c4bf707e7a3115a7afa11c702e6	253474	live
afeb783b-193c-4928-9a5c-bd605a224f4f	b242bb76-202f-415b-8710-14ffcaf61a4c.htseq.counts.gz	e522e6af44c498d1626b8e0c693d651b	259366	live
b010591f-7c68-46e3-a659-e621aa696858	a4b9a319-8f66-494e-8ada-530a1e8145d7.htseq.counts.gz	034e5e5c1629fb4d03054ec0658ee381	249079	live
b089c72f-4bee-46a0-8909-cd7b42fe6e19	6e2123ba-f414-492b-b3ea-76cdb8b49da7.htseq.counts.gz	fb7eacc8185bdb6742a205f3f690ced2	261540	live
b156aa6b-b7dc-4e1d-8cac-94e0e57d9793	a51644b5-14b7-4764-b1c6-946613cd0215.htseq.counts.gz	1f7cf716d1ed8abbc0c13eedf67c443a	249961	live
b15ef305-d2be-4503-9953-a116f8aa5b9b	d7e7ad52-ecde-4744-b4e7-28dea4d186da.htseq.counts.gz	fe4293dfe9c804b49434aa210fa2ce3b	256298	live
b1b14371-3b25-4450-8895-ee6e27fe36ec	bbc8e3e4-ff61-49ea-8624-e0b5b078562e.htseq.counts.gz	d855a1d9137ebfa26c08c61a4198cbad	253865	live
b22d0ed5-e496-4b38-8dbc-34dcaac8f291	9f374133-fe7d-4fe3-8c34-c8048125562f.htseq.counts.gz	1646aa44ff5b45d8d70b028b663fb315	257270	live
b25abeeb-c147-4608-933d-bb2b0cf1aeed	47c200a9-4a86-452c-a6f8-12aa45d322a1.htseq.counts.gz	778e5473edaa10d4896f525baabc4557	258924	live
b2e99aa1-81fb-43bf-baaf-ca2fd848f556	402c906c-8229-4169-b324-b990caf0d8c0.htseq.counts.gz	9e3a46b07080db64b0eccbfbcaf6ccb8	263073	live
b35121c7-34b1-4fc6-8b6c-c403e4ce467c	e28dfd98-3524-4910-8a3d-76cdd57987cf.htseq.counts.gz	9df498654da2e7b6bf1b6d3355d1eb48	261303	live
b40d0d08-5ab3-4cc3-bacb-929f74251be6	906d9c60-fdb6-469d-a42e-6bcab0a696f0.htseq.counts.gz	d9664e14f38da791b809190e66c83254	253393	live
b43e6672-ba33-4bdd-9615-bffa2288f3a6	74c84a22-7165-41f7-a38f-ed2db790ca2f.htseq.counts.gz	f71cf0c97ba94ff2a99520a141b2d09b	251718	live
b44c5f83-e55c-4078-bf99-70967626f8df	bdc00e8a-cff2-4281-8762-12c4470fc23d.htseq.counts.gz	5bb87115828d03c1a333241232ce0c89	258362	live
b4d67c8f-0c94-495e-8c34-4895cdb8950b	08c5dec2-1521-4c5b-90fc-1d17306a6da0.htseq.counts.gz	902305987d0fc77ff0857de9dbc2a105e	256027	live
b51484e5-c763-4fed-8048-995b17142d64	d1c52e51-385b-44d4-b119-6ee3883017f8.htseq.counts.gz	8aec61831b4aeda32ac8f659da4c706d	249713	live
b5c80bf6-59c9-4844-84fe-736531511 84f	f29a555a-3fb8-47a0-ac54-01811b6ad192.htseq.counts.gz	67fceb9c05d8ce464ff0bd2a91eeb0c3	257322	live
b6488311-0f50-4c39-a896-fe14f78186ab	93e77514-c77b-4346-ae63-3e0d10512cff.htseq.counts.gz	68ac7a2477f9d4c857f9b8af9e889f0f	253355	live
b6771970-3fb2-46bb-8bc7-4cfa8b06bdfe	3fdbd440-98a0-4ea0-ad84-d38667e176d0.htseq.counts.gz	1b5db09ec4494104fb7921bc232c9610	253711	live
b7de3e99-305c-4d2c-8e79-fd00cf2e53a8	5623b263-9d28-40bd-a177-024fc8c0e605.htseq.counts.gz	eeb22eac8e08898ad7125ef0a7955db3	251932	live
b7fb1af9-c943-4075-82a3-0e75b3b9cfcd	02b3ab24-8d8e-40b4-b0a5-d69aa69e0a6f.htseq.counts.gz	b52cc79433c633782301d5a7a605522d	258650	live

b814535c-42a9-4789-a893-f95fcdbf5f8a	ff7a8aa0-f671-441d-adfb-e1139614a47a.htseq.counts.gz	2d64bda9ad1b5ec858add325876ac290	258483	live
b98b6790-40b1-4738-917c-00960f0e2e21	d9ec289e-7cca-4741-846f-0b972e31155a.htseq.counts.gz	70f8a9f5cf246eb31315b755907b1b6f	255107	live
b9943784-11f3-4647-b97c-f081a51c9b42	43a95b01-4d9e-4205-9eda-f7cfcfabe0de.htseq.counts.gz	d0146c1c1fb6a520e604a1d48edd5ae6	251476	live
ba6287ac-589d-46f6-ab46-e21e3b1660e6	2ac28765-d5c7-4361-afed-3adabd801ee1.htseq.counts.gz	0e2730d435b92ebd9549a73311580eec	258821	live
bb361bbc-f7f6-4871-b78f-7df122fa6bdb	3d01269f-7b74-4f80-8a08-abb448913492.htseq.counts.gz	35b1038336f4e1b61c18c295a163c8e5	260880	live
bbc901f9-b0c5-4ba2-87cf-e77daa1fbf78	d0948978-3724-49dd-b7f7-5a28ca9a8571.htseq.counts.gz	9ddb05d1ce80aa4853d19556aa0bee86	254148	live
bcb77e5f-598a-4a23-a265-895866298013	40cc0bb9-64a0-4163-9244-1ab3ddfbfea0.htseq.counts.gz	08f3c228ea845e28a09815c2dad581f9	259417	live
bd979170-4598-450e-8bc9-e4526a63ed53	0fef447c-5f07-4299-b602-2b6b8450c6e6.htseq.counts.gz	079bfff9e7f843f4e6a71ea364a3fa17	255502	live
bda9e809-743f-4ffe-b100-4ad6f0fc9051	8d2f4be9-4885-4a75-991e-286a2f9223c2.htseq.counts.gz	1fd29b1176d136aa285b9b2021995bdb	254823	live
bdf82307-9836-4521-ae6c-580a7c56a99a	73e6cc52-f4fe-4168-9dd0-d6d28879cc95.htseq.counts.gz	f6ca8f35f37c840e0bc0807cdfd1b3cb	247890	live
beb6f964-a2ba-44c4-96a1-eb1b1e36be33	298d4abf-31eb-4155-904a-1b8f4fea371d.htseq.counts.gz	bd52e3312efb0e66764607e8ff37b3f2	260072	live
bef71bbf-7bae-4a80-b1c4-2d2291e5068c	9f2932d6-bb5c-4ce0-9ea7-281a459fb64a.htseq.counts.gz	b9b08abe07c52705ee6f240f042394ee	255034	live
bf5e79ef-8b45-4a64-9cad-47b39b94f05e	2eb359c8-470a-47b4-a448-eb45df341862.htseq.counts.gz	715b151201b8e0dab5278830a02c4374	253990	live
bfc916fe-79e8-4d8b-91e0-e608d8728220	8cb43c50-4ce9-4707-9dfa-cc5ed66a6b61.htseq.counts.gz	06c0f6473c05fbd8001a88f78543e2e7	257033	live
c01ecb8b-8c57-4d44-b109-e03a436c1c0c	6a97d5c5-4178-4ced-b279-a2d5044f1fdb.htseq.counts.gz	abd89e40cdcf9bdc176ff4d57f95cf64	255517	live
c0a5ed3c-541f-47dc-b12d-2e7074d190bc	9a9ad966-3448-4ac4-81c2-df591212041f0.htseq.counts.gz	b0c1b1baedb8b0bc73d5920ac0838836	247875	live
c17227dd-f5bb-4a2c-a9b0-d2753fcd6c30	4e9f8a0e-5266-486d-91b3-a4701340b095.htseq.counts.gz	f0f0e79cc1dc5b24ee3a621bccf5c161	258614	live
c2205a8c-8b00-47a8-8fc5-ddd2785d60bb	d8d4c3ae-74b5-4069-bac3-2722f224ffe8.htseq.counts.gz	c07e0b642319b5c6b538fd83fdcdbf44	246497	live
c2354aa8-408d-478e-a7cd-1ec349ebb510	246d0372-763c-475f-8e19-d39a264a8d08.htseq.counts.gz	432f0acedd1b6c2f6aee2b9873637db5	252330	live
c24021f0-9c8d-4c99-9062-3b432ccbd373	d99d874c-b050-466d-9475-48d8af5ad972.htseq.counts.gz	118d1bae1222b8acbb70bc0327014a50	254148	live
c27bc575-a7df-4ebe-9d1b-ebef7e6f727d	f71ca4cb-1677-41cd-aec1-cd2702fb840e.htseq.counts.gz	234444b7a9acd0ea5712b5bf536be9e9	254776	live
c28c961d-cb35-4f73-a6ce-91fa87bf2de7	8d9fd739-49be-44aa-8620-806b18d561fb.htseq.counts.gz	38efcf74939dfa03e99913e31cecc1b4	250024	live
c2d040ee-1b07-489f-84d8-4a15efe37295	3e8ab945-629e-4a63-ac39-c1b78392e5b7.htseq.counts.gz	608304480cbc14e334f7401a0199d129	254499	live
c3be4c12-acef-4108-9367-39c24a16d107	1bf6cbe5-03bc-442f-9290-33c3722240bd.htseq.counts.gz	1ea91a43e0856bd00bd0da6195406978	258671	live
c3feaebc-c8e5-4cbd-967a-8d9772fbfce4	cf6e46bc-d942-4863-9804-4409ba48099e.htseq.counts.gz	2a158fde82883a58d51cc2608e7551d1	259374	live
c514b1f6-c81a-48ba-a736-7bfaa85c230b	091dc352-d8e6-484e-989b-4bc571051130.htseq.counts.gz	70793689404d15598cd29197a7f516aa	259989	live
c51ba8e3-6bfe-47da-b1df-cf62f2d640b5	34119118-6feb-4641-9e6c-485981c7984b.htseq.counts.gz	5b3e11db00f52e43f71b1737a3d20580	252921	live
c5a0b557-9f32-4666-bafd-783aaf924890	a7cbe257-b699-4363-94ce-a65ec0b5b85f.htseq.counts.gz	070ee7fa50f21106e36bef0ea4a85418	258087	live
c5c4208e-7f33-4590-9fc4-384dbc49e205	bf321bbe-efdc-46d0-b93c-a410dfa3b179.htseq.counts.gz	b48d462ddfeb40b49f199aefffbf6f76	256098	live
c61cca3f-a115-4ba2-8346-d688d8ed1998	92de83d1-ba60-413c-8d21-d066505fe306.htseq.counts.gz	7a216ccbeb3c1c51f14f0823b9229355	254907	live
c6c536dd-6f85-42a9-b900-ef765ca0a3e7	b9ab3494-7186-4df1-9aac-75777ce3a8ed.htseq.counts.gz	cbd4d7e68144386c07b12481657dff80	252327	live
c6e9f916-f82a-4cf5-8eb9-605a2a664f6f	10a93ff8-e2cd-4f1d-acb8-ae4ccd5fecdb.htseq.counts.gz	05eeb8a87fd8da6e34ca7ff56fdfb925	250550	live
c7155b88-1aab-491f-9546-25d34337b1cb	44925f20-dad5-40de-99b6-e8164abe94ed.htseq.counts.gz	c9669e3dd6c03884046400ea6ac08298	254954	live
c74ff9f8-6d54-4729-b235-6c61626405ea	d842b357-df64-4896-89c7-aa62999b1933.htseq.counts.gz	e21ee108dcfbeab84d7a902c53a4a2be	254527	live
c7887b46-0b69-432d-8484-fd463e22bb4a	227d9c16-4459-44ea-af9a-ca89d6e052e9.htseq.counts.gz	147103cc267fe6f36a6ceb4d0caf7649	257469	live
c7bfa71c-3eac-439a-bf05-9359dd98a2a0	4803ca9c-59c4-4330-b8f7-e3eb4a01ebb6.htseq.counts.gz	4fd6b69b619189d0a9fe5851eecfdb73	248222	live
c7c8446f-343b-4a5c-9270-b5ecd488ae15	a2ce478c-032f-4e23-a011-4d67f16befee.htseq.counts.gz	28eef74291a7b8cc0564a986f2ac3c97	249393	live
c82042bc-5989-493e-8b68-16ff0284bb0d	60ab519a-f3c5-422d-9c2c-6876c2cd9687.htseq.counts.gz	32f198f005ddf03b50b5c5e73f269e4c	251731	live
c82be063-2af6-4b9e-870c-5bdbec0867c4	f66dd895-d78c-4b35-8583-1a2b8464fde2.htseq.counts.gz	66cabb4052f55741b6f6a51ccc9c01c5	257522	live
c8e58d70-8631-4251-bffc-973c01100429	f7b97473-d095-419b-98ca-f9212f037893.htseq.counts.gz	2bd9fd4f7c151944501a3d7697dadf5b	257271	live
c9bcdcf0-6e22-4b0f-95f4-e3b983e51988	57be3f81-6dbb-4257-a4b5-f823e30d76bf.htseq.counts.gz	abcb02e1c9c0b4f3180e5df1dde6a0ff	254661	live
ca0cdf20-987d-4e07-a368-bcf34e228c0e	e1c0a5ef-a95e-41c8-9c03-60cb6b767709.htseq.counts.gz	12a6256cb4cfb7697716e3dcbd632f96	258524	live
ca1e8854-e921-4279-98b2-26cb5b3fa36a	601b2c2f-f51c-4055-90aa-53fc6380fb67.htseq.counts.gz	64ee09f95247f955f29edccd71ed5fe8	259138	live
ca315cc9-e8ee-4f7b-b538-5df8d0ed43fa	7223f19a-017e-465b-b81b-bed54252c6b0.htseq.counts.gz	24646887bd11396381956c3dda9f408a	249165	live
ca5859e6-f801-4483-8d8f-c0a2d2e24fd7	aaffdeee-dffd-41a6-ab52-caac8e05bb27.htseq.counts.gz	ae0d88b79a6961c98d18b1dcf61d77b4	258943	live
caba3e6a-cf76-433c-91cc-40745517ac82	208e8d62-0277-404e-9246-55d36eb3ec7d.htseq.counts.gz	97f10aa0214cb00233c5b3e49d034355	255368	live
cc573f1c-825e-4045-bc66-73cafabe582d	640ccf3e-487f-49ca-8df6-67e10d852c9e.htseq.counts.gz	fd75970afc966311fa0f9055b0d40648	252567	live
cea1c87c-eb1b-406c-b939-07fcddf87c73	ab461441-1f45-4ae5-b5da-ebb58817f75c.htseq.counts.gz	6a5e9926398cf3cbff9726afd3e1674c	259651	live
cecf6ba5-110f-4984-a2b4-2c7a68e149c9	5d065eaa-e3a8-420e-b983-c1a80e713ac9.htseq.counts.gz	28e4e8ffdb7b1b3386205fe9c14270ca	253428	live

ced9da2f-fc23-4e71-b554-068af81ad258	acbe8040-a94b-4c8f-9a45-8f05182d9aed.htseq.counts.gz	cd5d6aa83f1a43dd59964904a5d5e05c	255076	live
cfca006a-7d20-4dcb-9224-426efae5ce1d	7386bdff-7f78-46b5-afd3-d75a19f1a0ce.htseq.counts.gz	ce673b9710cb2cd08a3b364c865d5492	255301	live
cfe5c3a5-9b71-47f3-a066-97d62fe0c381	b7225be0-787a-410c-9a4b-cf8236a43c61.htseq.counts.gz	18b36e92cb43061a657df7718df1365a	256890	live
d030c4a3-1fc9-4f53-95d5-6d99792bacf6	bb5f9300-48c1-4155-9691-c9780bfa883f.htseq.counts.gz	892d7e5e8e4569809076ccd7e0fd3665	251797	live
d16a7bc5-2017-4975-9240-7e9e52c9b6ed	299d62a1-2235-411e-af1c-e9c32414d350.htseq.counts.gz	7082692ce028d472bdcf5ed642925901	254532	live
d222e400-bb6f-4a2c-a8ff-629a55fd03b5	390a7a27-3687-44a4-8e4c-7b343e418475.htseq.counts.gz	acbbc0bfd80cdedaba83d6e7e3711b36	254068	live
d2411897-6f49-4d9d-ac60-e3c29b23fefa	db87c217-8596-41d8-b4d7-1b6b1f289e5a.htseq.counts.gz	9494ea11ce4e33d335b86e92841e1add	254174	live
d29fed52-e98b-4092-b540-8cc693fb2484	0afa874c-af86-47d8-8757-0679af6804a9.htseq.counts.gz	ff2a071d69e0489ce3a7df8ab80c65ca	255752	live
d2ddb984-0541-4cb9-9449-7d013ac77d25	769d968d-bf8e-4bb7-93ec-47a131d7f2d5.htseq.counts.gz	d220435571475448fc3924c27fd249cc	253878	live
d436e00d-2964-493a-a24c-2c24c1b0aee1	891f9d70-e716-4fc9-b53e-f120da74eea3.htseq.counts.gz	2ab9d64ae9d907f3096e9861470365b2	264959	live
d52d01f5-aeb1-49a8-aa99-49b5b76e6c2f	cdab322b-66c0-4c06-970c-5042afc1a706.htseq.counts.gz	de52c04dbd8cad4ef867964a20013e3b	250668	live
d5c19a8b-5bcc-4d60-a387-3e434b44e36f	0e303e50-9b5f-4ac5-9428-cc9979667d48.htseq.counts.gz	8cf7b6afab8ca66af79a010d97cefe57	257223	live
d69c53c7-b006-4dc9-8765-6c25c137d378	c4fbad39-af28-4011-86d8-ac700e3af78d.htseq.counts.gz	05f645d9d769f1c595efb06df76131e1	255239	live
d79efc9a-9c80-419e-b43d-de46214ae65c	9e7b7456-e255-4f73-bb17-4bb981d5cd21.htseq.counts.gz	f39da99b0235f471014715954fc458ea	258793	live
d79fb325-a654-4966-b3de-56cff950a138	ec240723-a6d1-484c-9103-92a709dd86f1.htseq.counts.gz	786aa67a0ebf1afe5d252f7a9e990894	253304	live
d7cc4e9e-cd60-4995-ac43-fff15bbc671d	67de4131-2f71-415f-bac1-33bc14f6438e.htseq.counts.gz	f995841c55ad8d4e0995cb9818893050	259159	live
d7e555a2-32d9-43e8-b441-d1b038f3f70f	67a59704-20de-482b-b65d-57b7e0160535.htseq.counts.gz	08246ce9336859509b9ee23eb64a71ea	256636	live
d88d8436-fa93-4bec-8854-66bdab4d43e3	401e568d-f69a-4b06-92f7-3441004b5438.htseq.counts.gz	277b4392ed7cb1b270ff02aa58fc5f77	257147	live
d90f0c09-dd25-4070-a232-a79351698529	4947a490-76f8-4cc9-b66f-f8ad69300179.htseq.counts.gz	d2cbd66821a571f2a5954782e2f7e937	257367	live
d915ef50-4b5e-45d0-a9e4-d0460edc90a0	7f8961db-237b-44d5-b9f8-eb3980896b98.htseq.counts.gz	baad0e3605806a0a46e8ba8df354b06a	255158	live
d926deb0-d7b4-402a-a002-96ef5c7d4d13	3dce2e68-bcf1-42b6-9374-b2724a0f5242.htseq.counts.gz	a0646644ba5f47453806109a831af3e9	254120	live
d94a19cf-7bd8-4b6d-b218-16ff328f1251	0af9ed7c-6508-4988-a2d2-66806cf14c95.htseq.counts.gz	cece56a364c9dc178ba1a0a1aad1e90c	254642	live
d961989e-f09f-4121-a7e2-b8270e906aab	59374379-2da1-4265-b1eb-884a11cff8ba.htseq.counts.gz	d96d4acd4dba449bdfaf419383535eef	252938	live
d9f5583e-2e6e-4dca-89f3-a8b9db9f829d	ce4e2cee-4331-44bb-af7d-69fa303a8776.htseq.counts.gz	2dcb5db87e84fcbc2f77320d599727c6	255520	live
da12f45b-d6ab-456b-aeda-28ccee960c80	ec2e0f42-85e7-48be-ba3c-1afcee0e7e1b.htseq.counts.gz	5406d122a6ee1d2a7bf94caa01b8868a	254332	live
da632429-9f6f-4e1b-be6b-a94c4f044219	03fe25f9-ec83-49d0-9f50-e113b6678fdc.htseq.counts.gz	e00ac78ff458158ff610d8a22bf7fe3a	253475	live
da73d873-3e00-4a9d-93b1-0de81c5dcb6e	f00661fe-0081-435b-afea-27e1f1b39f33.htseq.counts.gz	2ef6207c5a2e426b390a71695c7c8cfd	255298	live
dba49aeb-f2ce-45cc-8f1f-112ae81a5923	16009a5d-2149-4fa5-8e66-faac0f9f0309.htseq.counts.gz	4ef5bfd88676b2116e6718d73f1d3c2b	256112	live
dc4f301d-4684-467e-b96a-2ecbcd2dcd5f	fb7bdba2-fc02-4d20-804c-704310642bdc.htseq.counts.gz	7764477ff14103e06513541dc18fa5d1	248077	live
debc4dbe-818c-4c99-bcab-ef17361ccaf3	98386c9e-712a-4a16-ae18-736d6ff54973.htseq.counts.gz	f7f0ff5bf9a5e84ecb7b4a0cd528c31b	256807	live
dee48a56-edd7-485a-864f-3b8a9078ddb2	875c4c80-bbe2-4ab7-b276-adc8ecaa987c.htseq.counts.gz	a019653918c95f2eaa77624a066d4d0f	252591	live
df694ecc-60ce-4720-9733-cdd9d9012da9	df0b7118-2a68-420e-a1dd-236e05bc8fe8.htseq.counts.gz	4a3c61e87a63a44404bd1397dbc22e70	260706	live
df9fa5cf-2915-43f9-a83e-cc3e53677141	bceaa475-65e1-4362-91fa-22f68f90cbba.htseq.counts.gz	7965c8f600e356bf280b5f1553296616	259452	live
e1a0d402-fdd1-44f1-b997-2e9beda51abe	4cab26a0-d914-4b92-8c97-522c07edd284.htseq.counts.gz	4d6c69ddb2e201c51ed671221614d4bf	255672	live
e1ad39eb-e03c-4f97-86e6-967ebc306f00	b74e2e42-94b8-48fa-9691-936d606bb845.htseq.counts.gz	6bc15ac15612c6153404e0a831717d25	252643	live
e1ffccc8-45d6-47fc-bcb9-7200ccb7cc17	fcd37843-e471-4fc3-a4fd-da8d161d36e4.htseq.counts.gz	474cca25083acb28435eb321121a52c8	252618	live
e29ee40c-a51c-490e-b29e-d0d1c12de8ac	631a4c93-c41d-4ca3-84c7-6f6ad226397a.htseq.counts.gz	309cc88d97ef9cefcf98936c8e50e4f0	252003	live
e2c4bfbe-924f-41b4-9b1e-e87b3957a110	b393f2a6-56ad-4467-9051-98c0cfa0550c.htseq.counts.gz	485b99001b03e590de123f81bdf41ca6	258080	live
e38ccf6a-87f1-4d65-b5ab-e65c1884e064	206653c0-7dd7-488e-8219-4abfa4279704.htseq.counts.gz	f72531f97e63ec552c26417e153a9c04	249956	live
e429416f-f4dd-4fd4-8b61-6ad9e3097a51	175e2233-28a0-47c7-b395-19dd033b79d8.htseq.counts.gz	238e0881a7fff2a36ace9e16655211f4	255941	live
e453e4de-106a-4aff-80a9-e2154cd55157	20d85581-6c70-4c0c-bc9c-93c3e3a08bc3.htseq.counts.gz	0e87af13f73e36f4f311a78c9bee3b07	254186	live
e494e331-b48e-4028-b3d0-52590010390b	f9b34a21-993b-4eb7-a383-5cd41cd56ab9.htseq.counts.gz	c6433b2e682bc0cc01277ad391bc9eea	256988	live
e5571547-2d4c-4f50-b6af-efc2dd0c944b	064910fa-3648-4324-b958-47a3b89fe4b5.htseq.counts.gz	b0a6a32d78b97927d64f50be45eb6933	253176	live
e56c76e7-b3ba-4613-9e9a-ad166bb8e0f1	4ad49961-f26f-4c78-9ea1-7c13f1a36f2e.htseq.counts.gz	f13d97eff4089c4d5c1bc991bd610832	251939	live
e61283f7-e3cd-4cb9-8fca-bb635ce4b79e	ba514dbb-42e6-44fd-9c72-73839e1226e6.htseq.counts.gz	bf610ee097f4f8c4de1e9c6ac861802a	256464	live
e6327404-7f2a-4a69-a923-13bee9cc7eaa	c5d97e4a-8a34-4d99-8fae-70dd5bb12234.htseq.counts.gz	1aa157d947db3f22aca188728650dc14	260280	live
e63b0745-a6ac-4d44-9f3a-5df2ffb90f06	e3819f03-64b9-4999-acd7-27af18dade35.htseq.counts.gz	a515b6218801e1ec52412f7ad1a62f8d	258789	live
e6668726-dbc8-4c2e-b6c2-3bdeec437fbf	9fbf27fa-c33d-443c-a50e-74c731cdeccd.htseq.counts.gz	7815b782310b2eb014583300926a03aa	258214	live
e781bdc6-25da-497b-95d1-3527cf3f0d72	2ab0b465-ab62-4ef5-82b4-1aea2063292a.htseq.counts.gz	bf3a8fc3ebaf5fc5b9c93e0e529310d3	255887	live

e78ce5d6-10fa-4e0f-983d-2d58f4e19799	35f271be-6fd4-411a-afbc-c370665c363a.htseq.counts.gz	3cfa87e0f2f966afa51cc2f3bc6bd7ab	259643	live
e829dfb2-2113-4471-b4cc-72a0e77bcd89	a73b7250-3437-4279-b3e1-1add31d7b3fc.htseq.counts.gz	9a3bf4b35a56e8bc24aeaef7cbd695a3	255425	live
e8874cc7-7dbd-41d4-96b9-8738d023a08a	0b2cf05d-1d12-4fcf-898f-3e9e90b97dda.htseq.counts.gz	f0e6c5556de1e1dbeea80e726d18dd07	257739	live
e8b5d26c-c1fb-443e-b74c-6291867faae3	2fc73f79-d413-4797-887a-3c425ef247c4.htseq.counts.gz	e7c7c2c21fc8c7217abbc3b353c89664	254473	live
e9387ac3-1668-45ae-9536-5fd16d362a9e	bef7c254-c614-4472-929a-e765e3014180.htseq.counts.gz	22bbfdc6b6498913237417fa7f1c76e2	251159	live
e9c624cb-7810-44c5-8a09-6125aecada80	df1d818d-1204-434a-8597-9cc864d5cc36.htseq.counts.gz	354156a25f914185d20ad07b8a85fcc5	254375	live
ea4e8e64-0bf9-44b4-8b53-d263908bcbad	764dfff6-4ae1-4dcf-a505-867b6f6845d2.htseq.counts.gz	c9a0bf03a078603657fdbf787e9924c2	256065	live
ea7ab855-297c-4ea0-81cd-d46a1cf90135	84400ad5-cd37-4a94-a143-5c470599d1ce.htseq.counts.gz	f66a9f78ae9d595b44e68b0ba8f6ab66	254869	live
eaafd85b-44d4-41d2-a898-c882de2ccdd2	f0532052-b496-4435-abc4-93e23c6a68a5.htseq.counts.gz	1470b41aaa98f0ad2eb4807590b80e7c	258266	live
eac64872-0719-4993-9dd5-24cd6223e378	3e124db2-ed81-4d69-a673-a23095919d1b.htseq.counts.gz	4730ded5d546975aa59bec980e90bb80	254297	live
eada4890-4e51-49d5-9490-ea78d632f785	15ab4d09-8a85-4d6b-91b4-a87dcb7a5919.htseq.counts.gz	e5a165a7bae55a5b657b179960bc08a9	248944	live
eb53af8c-76b7-47a6-919a-0b132a3ac052	b421429a-e4fa-4894-9cdb-6f343cf4fabd.htseq.counts.gz	2f416ea0694df74214f9dd44bd1bece6	253068	live
eba55044-7b62-4e0c-b4cc-4718d0df1a26	63554af4-f56a-49aa-9b10-710ed85ffa13.htseq.counts.gz	d3ee4b7d7268a8b30b222ec5821b77ae	258876	live
ebcf77e9-28c9-48d2-9c51-3b38a40f3b78	b0b535b6-6600-4d7c-a22e-46b8478fe651.htseq.counts.gz	bcc55b2d432f49f580a62470131ecbbd	254470	live
ec3e32e6-2311-4467-be96-9458fed11b55	577b8ba8-29d6-4687-ad78-bb2d21ce6d40.htseq.counts.gz	e3c1e648f3680bd79117ff54ee5fb883	259204	live
ed856617-ad10-4644-80f6-5a30196a3ba6	7e0c2d63-6b93-4164-b9c6-72ad669eb0c7.htseq.counts.gz	da5e9a792d972ba4459f572fb6884ae8	254542	live
edeeea64-287f-43d8-a3e2-64d3d16f3168	b96fb7a6-9e5c-48ce-9ef8-aaef675cdfdd.htseq.counts.gz	3184d84bd2efcbbecc29d7887e5fc626	253139	live
ee9fdb10-0ec9-495f-a984-f540245ca385	2e1b2787-8e16-4622-a1e0-3b96e6381e87.htseq.counts.gz	b25d51fff381c1d1efed46d84c58ba7e	256217	live
eeb2036b-c085-44b0-847c-da69f83abdc2	45db4b6d-e0d3-430f-b88e-cda7a388c2af.htseq.counts.gz	c6a4bfe6486cc7536dc310098e81ea8e	259088	live
eeb3bb59-bf09-432e-b44b-f060fcfbfc5c	8c811805-abba-4080-a703-8d6bef165520.htseq.counts.gz	ab85def30e7785c18fd7caf37110536c	250514	live
eeda0b68-91f8-42b8-8a8a-c8c441e1b86d	09246213-2ca8-461d-8cb9-2de1da038b7f.htseq.counts.gz	17bec2907c7395f104f2c93ad9d80660	255535	live
ef012c4a-aa0e-4c56-a090-cce9f284fd72	f6dcf5aa-b9d3-4959-8dc9-ad67dbc3c9d0.htseq.counts.gz	85d46acf981197c5b7c6c5002d70aa7f	253856	live
efb12e5c-ee05-4e74-961f-4b85f0dbcd56	844b8466-6848-4dd7-b620-1a84103f63c8.htseq.counts.gz	a623c70338c247fc554a5a2266da1e60	253763	live
efd79cb4-d6de-45ae-9d81-67065c17ae65	f091a9a1-1645-4a21-b5a2-2f7cae2bdbfe.htseq.counts.gz	2196f356f9f94d8c0ce81339636645f9	256044	live
eff6ad73-e101-4d08-8027-34f360b218a3	2a659746-7292-4590-add0-c5915e513a7a.htseq.counts.gz	374e634bcb0507437f11398104e19885	255928	live
effc0424-56d5-4536-8d2e-a59f1aa35f5d	621e2d96-fac9-42d3-9357-a7733a494cb3.htseq.counts.gz	8cd3c873970abb46f17ccae3ea8e17b1	252695	live
f1af2d03-7384-4698-8674-5b63f0339e7b	cc36843b-e6af-4a45-a525-0dd34dd115fb.htseq.counts.gz	e1395305bdc4a2e9cdd903dea6d8be05	252529	live
f2da97c5-88c6-4535-94bb-eb8a48f4b9ee	e4177e00-8ca5-4ee0-92e2-f358e7037c6c.htseq.counts.gz	0ac55b14f1ae06fa1d4d4fda24811a3e	258125	live
f3598f6a-9302-425b-835d-26534893b57f	2c532e1a-19b7-4e75-881b-04036db8cc8c.htseq.counts.gz	7f890f35b6f0d2233228392da53b5fa0	249871	live
f49604b6-3f1e-4773-bc2f-f226f6f14d0c	d3823e63-64df-4a9a-920b-3323d3119db0.htseq.counts.gz	01b33b9f28df971acf4f980a4ac5e2dd	253380	live
f55b8f9d-160d-452d-9c30-e4628e6e3d6b	bfd8c6e2-15cc-48ae-a4a3-722ab3527fb9.htseq.counts.gz	4c4358196ae55f66d1b4cb9186549be4	254047	live
f58791fe-b12b-420e-8c74-483291e613bb	586afb0b-e791-4efe-b5c9-eaac6ecce723.htseq.counts.gz	221941b0f088f1fae977b49a3f5745cc	258938	live
f5a44e09-4038-4ff2-88f9-8443ead7a103	1a13663e-9015-4eeb-ab6a-8f40a8bbf403.htseq.counts.gz	52a7dc754df76a7c765761b72d94539e	250121	live
f6cf951d-d7b1-4e57-b852-c5b81acb87b1	3e5cd7b6-1f38-4ca3-a391-414b817a2203.htseq.counts.gz	afb909ce3309113bc3173220a7d00c3a	255618	live
f6e8a5a8-730a-4365-9842-758c68f57117	023ce468-15ef-4077-af4d-4a723d133132.htseq.counts.gz	e6fb9c0c9aac23c081e09508fee82f4b	258995	live
f73ef8af-971b-48ef-b767-61883c985f0f	267640d4-53b0-4a04-9a87-7ac779d35938.htseq.counts.gz	111dceb4be4278fbfa7fddf862a7e77b	254982	live
f76387d6-b75c-48ac-afaf-871b070cd302	22a4a58f-b03a-49f7-bcc0-e387be0e651c.htseq.counts.gz	8987758390e18f89cf9320db7d3b87bf	252631	live
f7866626-5fdb-4bb2-a008-61f8848cb733	5c9f1a05-1dc7-4e83-8dc2-3e5071796c07.htseq.counts.gz	4644355c9e3f98e4e0139465c0801f70	254474	live
f7c3607b-458a-413b-aa57-f3c6785e1f43	891d5512-0e8d-4dac-9f76-71aeae3937a6.htseq.counts.gz	aeef39ab6eb10894eb72cb18a282e07c	249837	live
f80eaea1-c03a-44de-bc81-b346b19e2ae7	07ef65b6-3ad2-4e51-809f-738283978aba.htseq.counts.gz	ec7ad607f619872af3493008205dd108	254470	live
f82e58a1-05b3-46e3-b5a8-2565297fa762	a0c716d7-ab86-4381-9f1c-11f5e4d386ca.htseq.counts.gz	80597830eb434f30f463953ab70a31cf	253509	live
f89f759b-9b3c-4523-a465-4f705454b092	87ae6f80-ff00-4b44-bcfe-ef3a3c1582cb.htseq.counts.gz	ab53f954a6b82fc40b0925c31a2546e4	262757	live
f8e47063-46fe-41fc-a8ca-f6851070f4c7	a0b1fe2b-28f6-4e9d-bc06-67be4b47e523.htseq.counts.gz	ae125175699703f6d20fb8d520edd185	255123	live
f9536c2f-fdfa-4acf-b2b0-9f264dfade89	1954f30d-9c55-4493-ba44-3350107a644b.htseq.counts.gz	2398472249a419142fb7c6098fdc7ad6	256977	live
f9d81e60-5988-444b-b6a7-dab25c8cf036	5dc059dd-6aa0-4d5b-b447-b5be0a9021ad.htseq.counts.gz	bbf1f40f7e02618d2472e4f8beb74dda	254062	live
f9ef3842-a234-48dd-b089-5c5eca8534ae	4dbc0492-036f-470c-800d-03b82a81d10d.htseq.counts.gz	c6e6097d5e75e81dba7be77e82cdd2ca	256109	live
fa16e26a-a1ff-4521-a976-9c87ae74776d	4e30632f-e8ad-4a99-97ba-94d89a08bc19.htseq.counts.gz	bd3a4c108d87262592ffeb5d831c834d	249661	live
fb7fd72b-8328-425d-8724-96fc7358cb69	3251fab1-8a05-4a78-98f5-0771528310bf.htseq.counts.gz	4db39e895fbc0b759e0ee87cd12ac0d1	256160	live
fbac7e1d-8a48-4586-a434-36e8d064ff5d	0e269501-0237-4891-aa6b-5f5f0c3cbafb.htseq.counts.gz	d38ebad1b60030d4d853a7ba08926d3a	253431	live

fc391121-1f79-46f8-aa24-38f8eb42704c	b32f0495-0e52-4bed-b795-5f7270960561.htseq.counts.gz	d91b6fc65102004449b8ca0d311435a9	257038	live
fd1cfaa3-684a-41b1-9344-9a0f3687fde2	5b28b53d-0d5e-4359-be3d-23bcb185fc00.htseq.counts.gz	ad1ccfe6ba8632d7219273119de7b9de	247465	live
fd591096-1dd5-41a4-a78d-07a999aa27fb	8170404a-1f5b-49b4-9d68-a196c57da6b2.htseq.counts.gz	583e2a03ff950ed7af3d0b31ae9c48b7	252129	live
fd78f87b-caac-4276-b321-56f673cb9016	b4f54395-e237-4b10-b688-433b138facff.htseq.counts.gz	52fdc023da55b164862b814c1c566fce	254778	live
fd8f2933-ce8c-4b3b-8b96-be37f5fe4ccc	baec09c9-c1e3-4504-97f2-41e4bf9cb628.htseq.counts.gz	00cdc4393e3c298b4bbdb5e5d6543d60	255604	live
fd9ee0b2-64a1-4b0d-bdeb-16b06b24ea89	b7170fda-1e88-457d-9fa6-44a92ec64505.htseq.counts.gz	618bb05e8814fa659f82c0eebe67d231	254477	live
feaad881-32a2-4fa6-a87b-a983379ae480	1699471a-4d01-4ad5-aa25-e898ab468cde.htseq.counts.gz	2286effd043e1b5644851f187a175f31	255189	live
fed4ded3-8f67-47a9-948d-7c4e3b4ce8f8	56ac46a4-f422-43e3-b117-39c8c835c4c1.htseq.counts.gz	1b3c744c0923861a48e30b22b7fa742a	250811	live
ff50ea19-a83c-4742-99c9-1dc9858ca9aa	6c4b3467-bf5a-4241-a580-44eea16df109.htseq.counts.gz	eaeedb92cb61e46e43802ffd2927b63a	255489	live
ff6560a6-e2b2-4888-9555-e73a4de6d098	f3931125-95ce-4c67-be63-edc11068cffe.htseq.counts.gz	c08af443578f252a2d2595b6919e335f	258615	live
fff32101-4f71-4c09-b65c-bf09e97c5160	0b490510-ec4d-4e10-ad98-c378e9332a6d.htseq.counts.gz	d609e46a7e8f4426030038b9365e494c	257338	live

Table SII. The clinical information for the 527 RCC patients.

case_id	submitter_id	gender	race	year_of_death	tumor_stage	vital_status	days_to_death	days_to_last_follow_up
0d88e6ab-cf1d-4888-878b-0ac7d687c4cc	TCGA-BP-4960	male	white	--	stage ii	alive	--	2172
62cf9546-b932-4a5e-bc9b-4103506d296d	TCGA-B0-5705	female	white	--	stage i	alive	--	4537
cfc999aa-802e-4a0d-8b14-be2b19fa2a17	TCGA-B2-4101	male	white	--	stage ii	alive	--	648
fedcaa7b-ec9d-4bae-a8ac-af10fbf3e568	TCGA-B0-5119	female	white	--	stage i	alive	--	1552
ccd44d97-f0d5-47cd-9c12-af458c750d23	TCGA-BP-4986	male	white	--	stage i	alive	--	785
24c1cf70-bd67-431e-a623-d20f8d3f52b2	TCGA-CJ-4881	male	white	--	stage iii	alive	--	2014
9c377f9b-79dd-4412-80ac-cea9a3529888	TCGA-B0-5692	female	white	--	stage iii	alive	--	3944
420409bb-0889-40a1-80cf-9b5916704f04	TCGA-B0-4814	male	white	2001	stage iv	dead	168	--
ba96288c-60d3-4e56-8940-90c5b22d4ddc	TCGA-BP-4164	female	white	2004	stage iii	dead	992	--
afd60992-f279-46ee-8fb9-53f6be850f6c	TCGA-B4-5834	male	white	--	stage i	alive	--	26
4100b960-7963-4a1e-ba24-0a6526387e06	TCGA-CW-6088	male	white	--	stage i	alive	--	3222
33cd8b05-2b9b-40dd-97a2-40d02e27ee90	TCGA-CJ-4900	female	white	2010	stage iv	dead	1714	--
e9faa588-d45a-450a-81a2-949eb2834bc0	TCGA-CZ-5452	male	white	--	stage ii	alive	--	1789
db058eb4-9c5e-4226-92d1-de24aea83630	TCGA-B0-5693	female	white	--	stage i	alive	--	4074
cba5705a-80dd-4496-9283-c5d3a92c7dba	TCGA-B8-4146	female	white	--	stage i	alive	--	511
a2663a86-a006-4867-9e88-2b523df48303	TCGA-B8-A54K	male	black or african american	--	stage i	alive	--	469
2bc5b2ec-aa8f-4889-9d92-d27f96c9fda1	TCGA-A3-3373	female	white	--	stage i	alive	--	1621
77d8c2cf-6b27-417b-9d43-14c95e6f9b85	TCGA-B0-4841	male	white	2004	stage iv	dead	204	--
3fa6c93e-e7fe-402c-9526-c81411aa0920	TCGA-CJ-5679	male	white	2004	stage iii	dead	679	--
4467ae73-499a-4af0-8431-e059d6ed21a5	TCGA-CJ-6027	male	white	--	stage i	dead	3615	1855
b472c982-f024-4e09-8326-071ee35ea55c	TCGA-BP-5008	male	white	--	stage i	alive	--	1071
73512f9d-c6e4-446f-8e31-666c6af44da5	TCGA-B0-5121	male	white	--	stage i	alive	--	1485
4e3334e2-918f-4005-bb5a-12a67c7c0380	TCGA-B0-5700	male	white	--	stage i	alive	--	1790
aba26e6b-f11c-4ae6-a0d6-85bdd2060e8f	TCGA-DV-5567	female	black or african american	--	stage i	alive	--	2004
f184de71-65d0-4e52-aec2-25c5414588c5	TCGA-B0-4945	female	white	2008	stage i	dead	2145	--
d232f22d-a3e7-41c8-97e1-205de2b488aa	TCGA-CJ-4891	female	white	2007	stage iii	dead	819	--
310c31bf-91ce-40b4-99e4-a10242296de9	TCGA-CJ-5676	male	white	--	stage iii	alive	--	4067
ceb7cd9a-9cb1-42f2-a4ab-0b4381e2b85b	TCGA-CJ-5675	male	white	--	stage ii	alive	--	3936
b764e6a1-da21-4593-b133-25827c5b8d47	TCGA-B0-4817	male	white	2004	stage iii	dead	1019	--
766999d7-fa28-415b-8783-be62b1b2fd70	TCGA-B8-5164	male	white	--	stage iii	alive	--	26
e4769374-7d4d-4aaf-b6fe-a01da59ee713	TCGA-B0-4833	female	white	2009	stage i	dead	2386	--
eeacbbdc-68c9-4dce-8999-e1dbcb86c14a	TCGA-BP-4355	female	white	2010	stage iii	dead	953	--
5cf9d9fe-2823-4577-a150-27b970f38a5d	TCGA-AK-3460	male	white	--	stage i	alive	--	2508
8be7d2e2-1504-49d0-bbdd-893d3d12e072	TCGA-BP-4341	male	white	2007	stage iii	dead	1589	--
500636a5-d42b-469f-98e2-fdd4dddc61a0	TCGA-BP-4787	female	white	2008	stage iv	dead	480	--
b2feca3f-8602-4a30-92bf-958ab2a2bd5d	TCGA-AK-3436	male	white	--	stage iv	alive	--	3331
6b0c1e54-b643-4490-927e-d5c91957d5d2	TCGA-CZ-5459	male	white	--	stage iii	alive	--	1683
037c691e-6320-451b-9276-78459f1b705c	TCGA-BP-4352	female	white	2007	stage iv	dead	344	--
3972ae59-114d-4e5d-89fa-f7675da417ab	TCGA-CJ-4907	male	white	--	stage iii	alive	--	1499
759238f2-0d37-404e-96f1-c26cae0ba2ea	TCGA-B0-4852	female	white	2007	stage ii	dead	1121	--
4b2ec8aa-8460-440e-b75b-6b92ae7a3ffc	TCGA-DV-5566	female	white	--	stage i	alive	--	1398
1e758394-67fb-45cb-98b0-5082c396d697	TCGA-B0-4828	male	white	2003	stage iv	dead	307	--
6ccabcd0-8f30-4828-851f-0ac7cee1a33f	TCGA-BP-4329	male	white	--	stage iii	dead	845	845

f38a6799-11e0-471c-834e-0d97e00aec07	TCGA-A3-A8OU	female	black or african american	--	stage i	alive	--	0
e173c4ba-9c08-4ce6-b46c-1673b5af9e2d	TCGA-BP-4971	male	white	--	stage iii	alive	--	1487
2913faf2-d722-4993-8e9a-3c4cc1f5d82b	TCGA-BP-4337	female	white	2003	stage iii	dead	2	--
dfa9513d-4e09-405b-a80f-2987ec5c5263	TCGA-B8-4143	female	white	2003	stage iv	dead	709	--
36ed3269-0a57-4c50-bbfa-cfd2a7b56d4f	TCGA-A3-3322	male	white	--	stage i	alive	--	1478
11111b58-c7df-4291-ad8a-4baec9ff7d1f	TCGA-B0-5694	male	white	2009	stage iii	dead	480	--
123b1a31-3635-4e90-b714-0c20df64cf0d	TCGA-B0-4694	male	white	2009	stage iii	dead	106	--
620baefa-db8f-4af9-9101-4b9b252fa73e	TCGA-MM-A564	male	black or african american	--	stage ii	alive	--	607
46c87ae0-c123-4bdc-8a79-d375d8a7e7a3	TCGA-A3-3383	male	white	--	stage i	alive	--	861
7d35b1e4-8dcf-4caa-adce-e4b72a2a10ca	TCGA-B2-5633	male	white	--	stage i	alive	--	963
19cd6d5b-0de3-4afd-9ecf-6f80c9977dc0	TCGA-BP-4967	male	white	--	stage iii	alive	--	205
ffb88267-1a97-41c9-ae25-6c6cefaf9dd9	TCGA-BP-5190	male	white	--	stage i	alive	--	1011
50f29fc7-c111-4101-b970-b1e1dd3388cf	TCGA-A3-3320	female	white	--	stage i	alive	--	1508
0df9ec46-d600-4845-9d00-2dc2732c68d1	TCGA-GK-A6C7	female	black or african american	--	stage i	alive	--	61
2efcefca-5e52-4b3d-a48a-9e9c73cc0141	TCGA-CZ-4854	male	white	2008	stage i	dead	1404	--
a8db1341-a7fc-4306-91ad-5caaca5c8a6e	TCGA-CJ-4912	male	white	--	stage ii	alive	--	1657
e45166cb-5150-4961-9e13-6891f02c1606	TCGA-CJ-4901	male	white	--	stage iii	alive	--	1450
d4098753-2e83-42c1-a06b-c03f7700e70c	TCGA-BP-5195	male	white	--	stage i	alive	--	749
2f38a984-c359-4d20-b23d-dca2d82f0270	TCGA-BP-5186	female	white	--	stage i	alive	--	693
0bd313f0-0b6d-4bf3-aae2-6496d71d6d3a	TCGA-B0-4848	male	white	2006	stage iii	dead	883	--
f2801b21-5444-4cc3-a642-c60c6d82cd3d	TCGA-CZ-5454	male	white	2007	stage iv	dead	722	--
0bbfeec1-fbae-4c92-ae90-60ba39303bd8	TCGA-A3-3349	female	white	--	stage i	alive	--	1385
8f8a632d-7fbd-4c86-b909-afb7edb9ad28	TCGA-B0-5701	male	white	--	stage iii	alive	--	2461
960d1eaf-0b96-488b-b62c-829c024fd4b8	TCGA-CJ-5671	male	white	--	stage i	alive	--	3987
171044a9-9e8e-419b-af3a-4849d92c3b1e	TCGA-B0-5108	male	white	--	stage iii	alive	--	1782
7aece0e0-e57b-40b9-8ef3-8b98624b0e91	TCGA-B8-5546	female	black or african american	--	stage i	alive	--	505
4ee14e95-09d8-4512-b358-3e0e7cb74c9a	TCGA-B0-4844	male	white	2004	stage iv	dead	313	--
fc7065fc-d834-4e7d-98bd-ca6666beb6cb	TCGA-B2-A4SR	male	black or african american	--	stage ii	alive	--	507
c7e9ba09-0826-466c-8555-6595de31ed31	TCGA-A3-3362	female	white	--	stage i	alive	--	1559
5ec1ec7b-9ef3-45fc-98a6-0202d15050fe	TCGA-B0-4818	female	white	2003	stage ii	dead	510	--
949736aa-62d3-46e0-8507-ed2a84be0073	TCGA-B0-4691	male	white	2009	stage iv	dead	139	--
c04c5ac6-5b44-4e47-bf52-e4d92d76eea5	TCGA-A3-3335	male	white	--	stage ii	alive	--	1886
4fca10bd-988a-47f9-8ed5-037c0d59d70c	TCGA-A3-3324	male	white	--	stage i	alive	--	1186
467bf226-a646-4217-bce6-8d0f11c756eb	TCGA-CZ-5456	male	white	--	stage ii	alive	--	2422
0022478c-4dfd-4cbe-a05e-fb20310844e3	TCGA-B0-5088	male	white	2007	stage i	dead	563	--
597c81a3-5820-48b0-9a9c-c45257c7ad70	TCGA-B2-5635	male	white	--	stage i	alive	--	755
fd5728e0-e495-45f5-aac8-c0856510c8aa	TCGA-AK-3453	female	white	--	stage ii	alive	--	2531
d5213422-9447-4f62-b486-3303e3f991fa	TCGA-CZ-4857	male	white	2008	stage iv	dead	1432	--
540cbfa7-d17d-44f5-b67e-f2b9b03827cd	TCGA-B8-A54F	female	black or	--	stage i	alive	--	519

			african american					
1e417b93-837d-4110-9090-239eb82c3e20	TCGA-BP-4968	male	white	--	stage i	alive	--	1746
31e9d2fc-79fa-49db-adac-7afb9609f915	TCGA-B0-4837	male	white	2006	stage i	dead	1378	--
68a1a23a-e762-440b-859e-2bebb42d0d59	TCGA-EU-5906	male	white	--	stage i	alive	--	206
3cfe743c-f02e-42bf-a170-9d8b8a514d10	TCGA-BP-5004	male	white	--	stage i	alive	--	1126
b7719c71-de18-4a4d-99ef-67b788c6f77c	TCGA-CJ-4635	male	white	--	stage i	alive	--	1416
22b6724c-a59f-4796-8166-992253e8caf1	TCGA-A3-3319	male	white	--	stage i	alive	--	1130
305eaef4-4644-46e3-a696-d2e4a972f691	TCGA-CZ-4865	female	white	2006	stage i	dead	166	--
8a575e00-5dc5-416d-a8f5-2cdfb8e62c31	TCGA-A3-3358	female	white	--	stage i	alive	--	1307
53dede5a-4423-4da5-bc1e-e5e98b011e36	TCGA-CJ-4873	female	white	--	stage iii	alive	--	2259
23c7555b-7a37-415d-bda8-3588078a0c2e	TCGA-BP-5189	male	white	2009	stage i	dead	822	--
0ff579a1-e295-408d-b194-febbca798e34	TCGA-DV-5575	female	white	--	stage i	alive	--	1729
31a0dd95-8199-4d25-b40d-4b353644af46	TCGA-B0-5691	female	white	--	stage i	alive	--	3431
e0127e51-43ba-4536-bc9d-004591f9c627	TCGA-CZ-5462	male	white	2007	stage iv	dead	311	--
dc43cfe0-8880-419f-946c-c0ad586e57ca	TCGA-CZ-4859	female	white	--	stage i	alive	--	1787
d4815225-0ac0-4295-a70d-74162066c0bd	TCGA-A3-3343	male	white	--	stage ii	alive	--	945
74749fe8-f5d0-4d0d-8c7a-e56eba6503b3	TCGA-CZ-5455	male	white	2007	stage iv	dead	561	--
bcf26561-6e11-441c-955e-181ef2e68b41	TCGA-B0-5099	female	white	2003	stage iii	dead	485	--
fae200ed-78e7-4d2d-82b5-aee63fc54d25	TCGA-BP-4982	male	white	--	stage i	alive	--	1014
89ea18fc-45ec-4e5c-969a-db2112dceefd	TCGA-B8-5165	male	white	--	stage i	alive	--	737
d3b47e53-6f40-4fc8-b5a4-cbe548a770a9	TCGA-6D-AA2E	female	black or african american	--	stage i	alive	--	362
efb088d9-fa88-4caf-a837-20d76efc83f6	TCGA-B0-4838	female	white	2005	stage i	dead	834	--
bbdaa931-e922-49be-bfbf-fa0c2ae27d7a	TCGA-CW-6087	male	white	2003	stage iv	dead	41	--
58dee518-f105-4620-996e-3fb6177aa493	TCGA-B0-4836	male	white	2006	stage iv	dead	1238	--
5e248b21-e69d-4dee-a1e8-029ade80d0eb	TCGA-CZ-5465	female	not reported	--	stage iii	dead	2564	1446
9fb55e0b-43d8-40a3-8ef2-d198e6290551	TCGA-A3-3306	male	white	--	stage i	alive	--	1120
942c0088-c9a0-428c-a879-e16f8c5bfdb8	TCGA-CJ-4642	male	white	--	stage ii	alive	--	3205
dbe16232-525e-4101-9a39-9d4323b10ee9	TCGA-CJ-4871	male	white	--	stage iv	alive	--	2423
62f5ceb7-bb0b-4248-850b-cc1cf012f570	TCGA-B0-5400	female	white	--	stage iii	alive	--	1733
b3a9b0be-2ccb-4e55-b72c-3f218ca46a3e	TCGA-BP-4962	male	white	--	stage ii	alive	--	1785
f00b7956-73a9-4e4b-85d2-60b3ba13f4a4	TCGA-CZ-5457	male	white	--	stage iii	alive	--	2754
e4da964a-31da-4b81-b6ee-2c6dcee703ea	TCGA-A3-3323	male	white	--	stage i	alive	--	1106
453085d8-2998-4629-9b2d-641e57d1a497	TCGA-BP-4173	male	white	--	stage ii	alive	--	1893
fdfaf862-46a4-4792-8487-810c6d1f9093	TCGA-BP-4330	female	black or african american	--	stage iii	alive	--	1888
0a93c52e-7e96-406b-b40d-b2925ba4ebd1	TCGA-AK-3465	female	black or african american	--	stage i	alive	--	369
d23d354d-04b0-4ff4-bd83-6a2d1ecf3b47	TCGA-BP-4961	male	white	--	stage i	alive	--	1935
9cffe9f2-421e-4596-b3ac-8788f862ab59	TCGA-B0-5102	female	white	2006	stage i	dead	2764	--
844d8b94-59b0-4787-97eb-474e3aa3e022	TCGA-BP-4160	male	white	--	stage iii	alive	--	2881
6e9e5e05-2bf8-4724-8e31-241f517289de	TCGA-BP-5178	male	white	2009	stage iv	dead	1912	--
4c44f4a4-1529-4897-9f69-c8e6c705f905	TCGA-A3-3385	female	white	--	stage i	alive	--	1993
6949efc1-4f71-4141-b129-a54b4bde5d2f	TCGA-CZ-4860	male	white	2005	stage iv	dead	206	--

d599ff9b-66c7-4690-b37a-cb86bdda7782	TCGA-B0-4703	male	white	2005	stage iv	dead	182	--
3f05a719-e81e-4f0c-a5c1-f1733b7aba11	TCGA-BP-4169	female	white	2004	stage ii	dead	701	--
02b5012e-f7ac-4423-8978-0b2f5e50926e	TCGA-BP-4759	male	white	--	stage i	alive	--	2372
4d856b5d-a59b-45f2-a9b2-4d43ec8a20e4	TCGA-A3-3357	male	white	--	stage ii	alive	--	2688
3f0a2571-c088-4735-8152-61f6fd60ac63	TCGA-G6-A5PC	female	black or african american	2012	stage iv	dead	242	--
fb9bafa5-7133-4955-8156-4eb6763dc8e1	TCGA-B0-5695	female	white	--	stage i	alive	--	2150
e9847c37-0d93-47bf-b669-c7f7a1abfa88	TCGA-BP-4332	male	white	--	stage iii	alive	--	1133
54c9850c-9b67-42ea-a04b-16a88f786dfa	TCGA-BP-5201	male	white	--	stage iv	alive	--	951
7e620e32-54c5-4f5b-9e18-211516a3eb41	TCGA-B8-A54I	male	black or african american	--	stage i	alive	--	150
9f4cd3b9-50ef-4f85-84b8-acb0b77887d1	TCGA-CJ-5684	male	white	--	stage iii	alive	--	2231
aa82fb26-96c3-4b3d-a2e9-7123c0a07321	TCGA-B4-5843	male	white	--	stage i	alive	--	11
2375ef64-8212-4ad4-97e8-bfa6d1db430f	TCGA-BP-4976	male	white	--	stage i	alive	--	1632
ac30d54e-f7e3-4185-ab99-89adceff3e69	TCGA-B0-4834	male	white	2008	stage i	dead	2090	--
f964511a-09ed-4a56-a477-0ab1cf067275	TCGA-CJ-4889	female	white	--	stage i	alive	--	1946
df3b1215-58fd-49c7-8f99-3a854d6cc667	TCGA-B0-4693	female	white	2009	stage iii	dead	77	--
d26f3a6b-72f4-4e48-815e-57b8b211112d	TCGA-B0-5698	male	black or african american	--	stage i	alive	--	3631
08a8eec3-c97a-4493-a7de-b2a686b4df67	TCGA-B2-3923	male	white	--	stage ii	alive	--	992
33cf0893-0411-4758-aa90-602bfedf0850	TCGA-BP-4807	male	white	--	stage i	alive	--	211
a8e0f80a-7049-4b5a-af21-cb6421286271	TCGA-BP-4351	female	white	--	stage iii	alive	--	970
62613d1d-978f-4b9d-a9c6-ae28ab384e57	TCGA-BP-4983	female	asian	--	stage iii	alive	--	1413
4edff57f-4b0e-4770-beac-590da7d7232c	TCGA-CJ-6033	female	white	2004	stage iv	dead	224	--
5338d435-68fb-4f0d-a3e6-c843f703f75f	TCGA-CJ-4885	male	white	--	stage iv	alive	--	3451
4c474c70-1d72-49e8-a8cc-a4145c5ab607	TCGA-CZ-5985	male	white	--	stage ii	alive	--	1997
4c325ee1-9b8e-45d4-a0a7-e47ec1eac402	TCGA-CJ-5682	male	white	--	stage iv	alive	--	3736
c91a4cc3-aaa9-4bc9-b157-e46551d334c8	TCGA-B0-5713	female	white	--	stage iii	alive	--	2782
07f596f7-8227-47d3-8e95-2e0b86f44f2b	TCGA-CJ-4908	male	white	--	stage i	alive	--	1531
f5759059-c0e3-4f1a-af96-5c7197d3c33c	TCGA-CZ-5987	male	white	2007	stage iv	dead	445	--
576ea0ef-3abb-479d-adb7-ba646cee344e	TCGA-B0-5703	male	white	--	stage i	alive	--	2246
46bc69a9-0090-4809-92b8-8cb741d9007d	TCGA-B0-5115	male	white	--	stage iv	alive	--	1604
28e9b6f9-ab6a-400b-a6a9-79095a443591	TCGA-AK-3454	male	white	--	stage i	alive	--	874
830626c5-891f-4b62-bc0a-68fbfb8bc2a8	TCGA-BP-4174	male	white	--	stage ii	alive	--	1879
f3a921d5-7a6d-4a6e-893b-a5e1d3f4750b	TCGA-B0-5110	female	white	--	stage i	alive	--	2009
44143697-c4b3-4051-9594-d53131c05889	TCGA-BP-4758	male	white	--	stage i	alive	--	2208
c33d0d12-a744-4a9a-b3f7-e28da6a109ab	TCGA-A3-A8OX	female	black or african american	--	stage i	alive	--	0
828ad452-3daf-4467-bcbc-6dac2c93a7db	TCGA-B8-5553	female	white	--	stage i	alive	--	435
9a404208-c3d3-4e6b-b511-1a4ccf595c18	TCGA-BP-4782	female	white	--	stage i	alive	--	354
2a9c4ce5-f5b3-4d3e-b6f5-07a9369096b8	TCGA-BP-4972	female	white	--	stage iii	alive	--	1502
8d4b602b-d1a4-4d80-adf4-5f527de78d4b	TCGA-B0-4713	female	white	2010	stage iii	dead	202	--
3c5f27e9-db2f-4963-9240-94815808d32f	TCGA-AK-3440	male	white	--	stage i	alive	--	2865
5b66c4ae-3aed-4212-baa1-dac33bab8ebe	TCGA-B0-4698	male	white	2003	stage iv	dead	42	--
79e469c5-c18c-4c20-aaa2-8866623229d9	TCGA-BP-4343	male	white	2008	stage iii	dead	1912	--

fef57c51-0858-42fb-b9eb-3727d274a4e1	TCGA-DV-A4VZ	male	black or african american	--	stage i	alive	--	365
e3aa5595-223b-42e9-aec0-e49f631e37d5	TCGA-AS-3777	male	white	--	stage i	alive	--	1238
fc052a9d-0134-46ce-af98-4703b61d63c4	TCGA-DV-5569	female	white	--	stage i	alive	--	355
ab5266f6-8015-4347-b0bd-131ab1fbad51	TCGA-B4-5844	female	white	--	stage ii	alive	--	7
57070e5b-0eb5-44b7-abb3-3007fa34543a	TCGA-BP-5009	male	white	2009	stage i	dead	1092	--
265f1d03-fa56-4f9a-a1d2-33f123558729	TCGA-BP-5175	male	white	--	stage i	alive	--	932
8ee720b5-6f3a-4921-85ab-70e75c0835b0	TCGA-A3-3317	male	not reported	--	stage ii	alive	--	1491
b428463a-75d5-4663-a53b-ec2993795cc0	TCGA-B8-4151	female	white	--	stage iii	alive	--	1299
cf77fe39-0b4a-4b38-b563-2a244b9fb5c0	TCGA-B0-4845	male	white	2008	stage iv	dead	1986	--
f1ed9155-ea54-4435-8920-0df8ed7febda	TCGA-BP-5200	male	white	--	stage ii	alive	--	1063
59d18f0c-946f-4850-892f-70e2bf380232	TCGA-B8-A54E	female	black or african american	--	stage i	alive	--	909
7664c241-b369-4d76-9cd1-7f2bdc1d267f	TCGA-BP-4326	female	white	--	stage i	dead	1625	1625
9b84d013-713b-4571-888c-12863fdd4a52	TCGA-BP-4327	female	white	2002	stage ii	dead	109	--
c0f7147e-d28b-4358-9219-bb31f3012cff	TCGA-CJ-4886	female	white	--	stage i	alive	--	1952
0b970feb-914f-4159-912f-6efec02b617f	TCGA-A3-3374	female	black or african american	--	stage i	alive	--	1314
c6454371-1f84-4e8e-8c3a-2eac8380819e	TCGA-DV-5573	male	white	--	stage i	alive	--	1130
e58f2c7b-d1cc-48f3-a0c9-dcd2b27c37f6	TCGA-B8-5552	female	white	--	stage i	alive	--	1046
eda2b871-8a18-4854-92d8-d8d66fb127d8	TCGA-B8-4620	female	white	--	stage iii	alive	--	777
f72defb3-87ca-4efd-9dc7-d2068533fd98	TCGA-BP-4349	female	white	--	stage i	alive	--	372
98ff8a6b-0ead-4e55-9fb7-6fe5cc69d0f6	TCGA-B0-4714	male	white	2010	stage iv	dead	99	--
dd35edfd-ee6c-461f-b2a6-2dff8324117c	TCGA-BP-4797	male	white	--	stage iii	alive	--	1107
577847b9-f9b6-4954-868f-3d5ab2b4f694	TCGA-CZ-5453	male	white	--	stage ii	dead	2419	25
f8804530-3c83-4787-9467-b18a1c73f610	TCGA-BP-4159	male	white	2009	stage i	dead	2601	--
a9f73fb6-fc3e-4c0d-ace3-36cd7dcee256	TCGA-BP-4347	male	white	--	stage iii	alive	--	1367
12adefc4-c9fd-46d3-904b-8fc52d5f1913	TCGA-B0-4696	male	white	2003	stage iii	dead	866	--
f2fca062-ca87-4089-916d-49b9ff146797	TCGA-CJ-4888	male	white	2009	stage iv	dead	1567	--
59f49821-412c-4945-b9e2-be0dcc8bf8bf	TCGA-B4-5836	female	white	--	stage i	alive	--	141
9245a557-01ea-4446-b9e9-313f6ab18834	TCGA-BP-4995	male	white	--	stage i	alive	--	1371
9dc7812b-c7a2-4de4-bf6d-4c7261384a62	TCGA-A3-3387	male	white	--	stage i	alive	--	617
270c9a0b-d71a-4d4e-8686-f183412159f2	TCGA-BP-4761	male	white	--	stage iii	alive	--	182
2a2f168c-f93a-4e83-8df2-93a3e7bc06a0	TCGA-BP-5000	male	white	--	stage i	alive	--	563
3e976301-4042-4ac0-8f01-ef2f1a8161a6	TCGA-CJ-4639	female	white	--	stage ii	alive	--	3229
d6ea5cec-97bf-4c0f-85bf-293d463b0586	TCGA-BP-5001	female	white	--	stage i	alive	--	1177
0631dc8c-5950-4419-adf2-ec3b1e259fc8	TCGA-CJ-5686	female	white	--	stage i	alive	--	2038
1adb05d4-e1ca-4ede-81c7-ff24a243abae	TCGA-B2-4099	male	white	--	stage i	alive	--	972
c129b63f-90cb-40dc-beed-757634004821	TCGA-BP-4963	male	white	--	stage i	alive	--	1834
f57690ba-a120-4ea2-83e0-0559d1eb62c4	TCGA-B0-5080	male	white	2005	stage iv	dead	342	--
e04bd954-b207-481d-84fd-6c4f8d070e8a	TCGA-BP-4763	female	white	2007	stage i	dead	1270	--
3372a7d2-79cb-4cf0-9a7e-fe1a6b205daa	TCGA-A3-3347	female	white	--	stage iii	dead	1610	1610
c3cc716b-1b9c-4e73-9a40-f1f891a17c2d	TCGA-BP-4770	female	white	2005	stage iv	dead	329	--
30208a4c-ecb0-4b3c-a349-87e1c1f43e85	TCGA-BP-5170	male	white	--	stage i	alive	--	2412
bb4a6123-5851-4e49-b859-606ffd2a4d11	TCGA-B0-5710	male	white	--	stage i	alive	--	2430

b81998f2-b3ff-4976-bc1c-8d38a68efa1d	TCGA-BP-4804	male	white	--	stage i	alive	--	1459
09d7ce7a-774e-4784-9c9a-32b766fdb173	TCGA-B8-A54J	male	black or african american	--	stage ii	alive	--	528
e1663694-17dd-4b01-b613-2516e022dfb7	TCGA-A3-3382	male	white	--	stage i	alive	--	574
7ca06dbe-f073-4aee-86ff-a545fad5ea93	TCGA-CJ-4878	female	white	--	stage iii	alive	--	2186
844ec449-eec0-4ea7-9da9-b75a164bef16	TCGA-B0-4847	male	white	2006	stage iv	dead	793	--
d7155ce6-e6b2-4c1f-8233-85f0d63e8e11	TCGA-AK-3443	male	white	--	stage ii	alive	--	1423
e865d40a-9989-436c-8426-88cc84c863e8	TCGA-CJ-5689	male	white	2009	stage i	dead	1620	--
d30f460b-8e85-4eb4-83b8-0a5d8bf4d10d	TCGA-BP-5199	male	white	--	stage ii	alive	--	1355
2890b330-8ba5-4031-bed5-13e9d1d75af9	TCGA-CJ-6028	male	white	2007	stage iv	dead	1625	--
b6d4e2d5-5739-4be3-8a4c-6e7a17d1d40f	TCGA-BP-5202	male	white	--	stage iii	alive	--	29
8593764c-e468-4229-94de-6ba614b4f068	TCGA-AS-3778	male	white	--	stage i	alive	--	43
21eea125-1298-42d3-a50c-57d596e0420d	TCGA-A3-3329	male	white	--	stage i	alive	--	1624
73fc6ae6-7c5e-44de-a9a0-17292cbb01cc	TCGA-CW-5587	female	white	--	stage iii	alive	--	2226
351fb9f4-a3b6-44d8-9fdc-5b0b582fda23	TCGA-AK-3431	female	white	--	stage ii	dead	2241	1853
7b4e529f-5ed9-4a81-94e6-7a62d604d46d	TCGA-CW-5588	female	white	--	stage i	alive	--	2017
c22d25c2-b836-4b91-8f4f-2062be002232	TCGA-BP-4775	female	white	--	stage i	alive	--	1843
8fd493c5-1375-4f76-b337-c9a75e3abdbe	TCGA-CJ-4644	female	white	2004	stage iv	dead	336	--
bbbce1ba-c739-43ba-b9cf-a4f746491ae3	TCGA-B2-4102	male	white	--	stage i	alive	--	952
f6d3e963-5bff-40f6-8430-1c6fb5ec6503	TCGA-B0-5399	male	white	--	stage i	alive	--	1411
e5eca191-f585-490d-81e3-9cced1047093	TCGA-BP-4334	male	white	--	stage iii	dead	645	645
a68bd706-58e7-4d36-bffa-6c94986a8d4e	TCGA-BP-4801	male	white	--	stage i	alive	--	1124
a42103aa-0f25-4939-9f9d-9ec11a5c8cca	TCGA-A3-A8OW	male	black or african american	--	stage iii	alive	--	323
13e25128-9be1-4f67-a43f-a8744a619203	TCGA-CZ-5989	male	white	--	stage ii	alive	--	1905
4cfe9a35-80f2-422b-82e8-8f4b12ded992	TCGA-B0-4707	male	white	2009	stage iii	dead	600	--
18325fdc-594b-4545-a77d-adb07a32ec73	TCGA-B8-4148	female	white	--	stage i	alive	--	1520
46194f7f-af16-42b7-bef6-9c0d1e8f9b0d	TCGA-B0-5075	female	white	2006	stage iii	dead	637	--
34e8fbd8-ed33-4d11-af4a-dd33af37fe28	TCGA-BP-4340	female	white	2004	stage i	dead	562	--
2d7e2ae4-09ba-40af-82ce-66ac7dbd4831	TCGA-BP-5169	male	white	--	stage i	alive	--	193
a682a2a3-dc53-4b7e-8929-07215737ec5e	TCGA-B2-5641	male	white	--	stage i	alive	--	656
2304b8f8-4cb4-46c5-a88e-c78d97b06d6b	TCGA-A3-3352	male	white	2006	stage iii	dead	561	--
393abcf7-1155-4b32-85ca-cd44d259e4b4	TCGA-CZ-5461	male	white	2006	stage iv	dead	330	330
75e02a42-6937-4761-868b-c369c7bd3c72	TCGA-B4-5832	male	white	--	stage iii	alive	--	155
78048432-2de1-498c-9cf1-9c5bd43daa39	TCGA-CJ-4870	female	black or african american	--	stage iii	alive	--	1498
291f45ab-1b77-456a-9783-06106fbe3053	TCGA-CZ-4866	female	white	--	stage i	alive	--	3267
551e8a06-382f-4cc3-b6b4-6ad61181f1f7	TCGA-B4-5378	male	white	--	stage i	alive	--	175
89500416-1a5e-4f52-a1b9-6394f3943e4d	TCGA-BP-4991	male	white	--	stage i	alive	--	1413
2953131e-9c34-4fa2-8af4-2c8d66ea2821	TCGA-A3-A6NI	male	black or african american	--	stage i	alive	--	1018
2de427e2-b1f3-4915-9750-ab6414edc92e	TCGA-EU-5904	female	white	--	stage i	alive	--	551
4dd51edf-05d1-445a-b43c-6fce29eb21d4	TCGA-CW-6090	male	white	--	stage i	alive	--	2552
804a6159-e381-44ea-8680-43c69d013cef	TCGA-CJ-4874	female	white	--	stage i	alive	--	2283
e548aeb2-04ca-48f8-af8d-8acb745748fc	TCGA-BP-5007	male	white	--	stage ii	alive	--	1140

a22d5ba2-5f11-49e9-911a-ec03b785fae5	TCGA-B8-4153	male	white	--	stage iii	alive	--	762
c0171d4e-9970-44f4-8502-f31f0e145643	TCGA-AK-3445	male	white	--	stage iii	alive	--	2392
3128d9bf-71fd-4edb-8d07-98f53ef0432e	TCGA-BP-5184	male	white	--	stage i	alive	--	1133
6b1ff32f-75a4-44aa-9da4-b6872e179c9f	TCGA-B0-5107	female	white	2009	stage iv	dead	927	--
06197e26-3cb0-4bd0-a6e8-dd9af5047c6a	TCGA-CJ-4638	female	white	2005	stage iv	dead	431	--
aebe37c4-5b37-41f3-ade3-46e41bad8eab	TCGA-BP-4987	female	asian	--	stage i	alive	--	1124
c499b3be-9db0-4809-b7c0-f5d81208d7ec	TCGA-BP-5173	male	white	2004	stage i	dead	62	--
d7abeadd-ca92-4e18-ae06-70baf9ce42e0	TCGA-AK-3447	male	white	--	stage ii	alive	--	1217
414056a2-b1dc-4741-b9b9-fda306da6ad6	TCGA-B0-4839	female	white	2007	stage i	dead	1639	--
ce0ab696-4e50-4b05-a7e5-5191c257bfbe	TCGA-BP-4981	female	white	2009	stage iii	dead	1097	--
9f5c0a43-d222-484a-9249-d288387dd7a1	TCGA-BP-5010	male	white	2009	stage iii	dead	878	--
9868ae73-3459-4aa6-b71a-39953cdbbe1a	TCGA-A3-3325	male	white	--	stage i	dead	1170	751
6b033bf5-4ad9-419f-9d2c-63e2e8c80066	TCGA-G6-A8L8	female	black or african american	--	stage i	dead	1091	474
ee7011e7-f692-410a-ba35-efe1ec75cf8e	TCGA-A3-3351	male	white	--	stage ii	alive	--	910
e7afc830-fa22-4562-a1f3-0f4f5a34eacd	TCGA-B8-5158	male	white	--	stage iii	alive	--	1218
74844571-c5a3-4a14-ac19-c7c1ce40259b	TCGA-B0-5702	male	white	--	stage i	alive	--	2172
f11f68ac-5ad2-416b-a0c2-697ac3e9718a	TCGA-CJ-4643	female	white	--	stage ii	alive	--	1793
01277e9d-a35f-45d9-9e60-2e8cd79630a0	TCGA-DV-A4W0	male	black or african american	--	stage i	alive	--	2470
44130745-0b09-4201-829f-cc634f462d3b	TCGA-B0-4816	male	white	2005	stage ii	dead	1371	--
58ef1a13-a549-4043-b66c-5327bfcbd2e6	TCGA-CW-5589	male	white	--	stage i	alive	--	2378
c4bbbcd2-aa18-4b1f-99d4-93279e31d7e7	TCGA-CJ-4887	male	white	2007	stage iv	dead	932	--
7a4283eb-00e8-4174-b6b9-6d98c65932c5	TCGA-B0-4688	male	white	2008	stage iv	dead	101	--
a1ad1a96-2b6e-4c86-9d71-e176b902e9d4	TCGA-B8-5545	male	black or african american	--	stage i	alive	--	1525
4481ca64-d37c-462d-9403-6b3339728e0c	TCGA-EU-5905	female	white	--	stage i	alive	--	119
9fe336a8-08a7-4fe7-bf45-afd6a8eb9c75	TCGA-CJ-4902	male	white	--	stage iii	alive	--	1520
616bc43c-34b9-48e8-8219-4ef4d052f91b	TCGA-B0-5095	male	white	2008	stage iii	dead	245	--
9cdda9fa-d492-4902-afc1-eb2244e70c1b	TCGA-CZ-5451	male	white	--	stage ii	alive	--	1929
7b184674-c88e-4479-be18-b403af5cc2c5	TCGA-BP-4766	female	white	--	stage i	alive	--	1462
0487fc41-386c-4d76-9084-daf959bf5e98	TCGA-CW-5585	male	white	--	stage iv	alive	--	2609
46d34d0c-b8a2-4ebd-b9a0-5485904ecafa	TCGA-CJ-4890	male	white	--	stage iv	alive	--	3519
bcbab8ce-abf1-4029-9419-6b1c671d41df	TCGA-B0-4699	male	white	2004	stage iv	dead	110	--
07aa333c-8bfb-4bdd-ad86-912c099ca0a9	TCGA-B8-5551	female	black or african american	--	stage i	alive	--	16
d7cf4fc0-6357-4973-af4c-b456f430478a	TCGA-AK-3458	male	white	--	stage i	alive	--	1168
1b3f2411-52cd-4482-bea2-95cf72020c6f	TCGA-AK-3425	male	white	--	stage i	alive	--	3343
d9208e7b-0b47-43ff-a4e8-d4e591e286c4	TCGA-BP-4354	male	white	2008	stage iv	dead	1034	--
9ecdde9c-2179-4830-bd10-c4fa40f26066	TCGA-BP-4756	female	asian	--	stage i	alive	--	374
7080bc0a-709e-4871-9539-4616f194e310	TCGA-CW-5583	female	white	--	stage i	alive	--	2489
d4159990-85dd-4557-be1a-bd03818ea3ea	TCGA-B8-5163	female	white	--	stage iii	alive	--	822
46240f32-116b-470c-9846-3616a6db4f2e	TCGA-A3-3376	male	black or african american	--	stage i	dead	1696	1070

88e7ce26-5b3f-4e4e-89b7-f706063fc467	TCGA-CZ-4863	female	white	--	stage iii	alive	--	1928
83444c79-6aa5-4081-9143-2055a360e211	TCGA-CJ-4892	female	white	--	stage i	alive	--	1521
883c37e2-c723-45d7-9e25-082d1bec34e2	TCGA-CZ-5986	male	white	--	stage i	alive	--	373
f2b93fbd-5848-46e2-978e-ba84e810e0dc	TCGA-CJ-6031	male	white	--	stage i	alive	--	1906
4cfe4f31-f62c-423a-8b9f-17f455b15313	TCGA-BP-4760	male	black or african american	--	stage i	alive	--	2361
74fc9f65-b5f1-4b56-93a5-f90eaab52e31	TCGA-B0-5083	male	white	2007	stage i	dead	1045	--
97fee782-9aa3-41c7-8b7b-53c9c69bdabc	TCGA-AK-3427	male	white	--	stage i	alive	--	3583
e719b7f3-27c4-4017-9d34-a660776c2cd7	TCGA-BP-4799	male	white	2010	stage iii	dead	1133	--
e002c248-0db9-4f94-8590-88dfd6c0c642	TCGA-CJ-4876	male	white	--	stage ii	alive	--	1955
dfd2c288-5054-4fc1-9cae-f437779dc2de	TCGA-B0-5697	male	white	--	stage i	alive	--	2630
c814c26c-ee8e-4fd8-a3d3-441b302ead3b	TCGA-B0-5699	male	white	--	stage i	alive	--	3841
8d02978a-10cb-4bbf-8980-78aebe70bcd1	TCGA-A3-3328	male	white	--	stage i	alive	--	1385
9da334ed-314c-4445-ba29-ffd9bb42403c	TCGA-AK-3428	male	white	--	stage iii	alive	--	3728
d99f31f7-2b3b-47e8-bd26-8d37da22aca0	TCGA-B0-4846	male	white	2007	stage iv	dead	1200	--
315b6dea-02c6-44dc-9788-a72f78fae815	TCGA-BP-5182	male	white	--	stage i	alive	--	1165
d6625c4d-cd1c-4c62-8100-e8b2a49ce3ad	TCGA-BP-4974	male	white	2006	stage iv	dead	211	--
d9f1bb02-4cb0-4f7c-8f34-ff5f301c6b2c	TCGA-BP-4161	male	white	--	stage i	alive	--	2746
3b064b7e-c3cf-4fc3-844e-301a51737e35	TCGA-BP-4969	female	white	--	stage i	alive	--	1794
b602a73b-809c-44c6-a787-d496705e7ae8	TCGA-CZ-5467	female	white	2007	stage iii	dead	73	--
1b0ad45e-b917-4e91-83c4-e5386cdf0eee	TCGA-B0-4842	female	white	2008	stage iii	dead	1724	--
a43401ae-14cd-4f57-946b-9a9c073f2a47	TCGA-CZ-5982	female	white	--	stage i	alive	--	2439
a5d34ea3-9362-4233-8d9e-1892839179b2	TCGA-BP-4798	male	white	2007	not reported	dead	334	--
8942ebfa-946a-41a7-8b4c-ce45a2096c81	TCGA-B0-4813	male	white	2001	stage iii	dead	18	18
6a7a0f51-336a-445d-8a05-8b8811894037	TCGA-B0-4701	female	white	2005	stage iv	dead	238	--
c1b46fd8-1221-4641-a323-84bfb444a45f	TCGA-CJ-4897	female	white	--	stage iii	alive	--	3341
f217a4f9-d8d8-440e-b73a-5f0448b58c4f	TCGA-BP-5187	male	white	--	stage i	alive	--	406
a5790b81-5001-4d1a-97ad-0ec9fc658f44	TCGA-BP-4992	male	white	--	stage i	alive	--	501
ec3b2a30-fcf6-45ef-bd9d-e6089a237c0f	TCGA-CJ-4904	female	white	--	stage iv	alive	--	3302
3be0bc1d-d81f-4769-b650-8cc8858e45db	TCGA-B0-5098	female	black or african american	2002	stage i	dead	1584	--
31201e73-a922-4acd-b859-fa2f9ba0af93	TCGA-BP-4771	male	white	2005	stage iv	dead	162	--
cdd8eb5c-bda8-4961-9db4-72e0c4907e95	TCGA-BP-4973	male	white	--	stage iii	alive	--	1384
ff9328d5-d604-4276-866c-2d44ef3b2403	TCGA-BP-4176	male	white	--	stage i	alive	--	1955
5c73b91a-2bee-4388-854c-1c3a6ae732db	TCGA-BP-4998	male	asian	--	stage i	alive	--	932
df1e2e79-0126-4f3a-85e3-36f59be04622	TCGA-T7-A92I	female	black or african american	--	stage i	alive	--	356
8e9e684c-20e5-48b1-9e40-970037fe959f	TCGA-CZ-5463	male	white	--	stage ii	alive	--	662
d97ac1d1-fc06-4e9b-b3ad-415582ff66f1	TCGA-BP-4975	male	white	--	stage i	alive	--	1433
fdda296a-7321-4c8c-8076-40d92c570c8f	TCGA-AK-3433	female	white	--	stage ii	alive	--	3409
73c712fe-54d6-4743-90bb-03313eb9fa77	TCGA-CJ-4920	female	white	2004	stage i	dead	139	--
1bc2ad71-fb9d-4012-bfe7-c39e215a51eb	TCGA-B4-5835	female	white	--	stage i	alive	--	16
b3a6acab-00ad-48b7-94c2-bd56b461b48f	TCGA-AK-3429	female	white	--	stage ii	alive	--	3328
ea456a1f-6e2c-4b34-ad24-ccd614bd57c9	TCGA-B8-A54G	male	black or african american	--	stage i	alive	--	53

514af471-31d2-43fa-88dc-8639a5e97181	TCGA-B0-5712	female	black or african american	--	stage iv	alive	--	2722
aa2b6825-3352-4d47-a637-48452f4a958b	TCGA-MM-A84U	female	black or african american	--	stage i	alive	--	700
18bcef21-1eee-4b9f-9345-b2f5799b49ab	TCGA-B0-4697	female	white	2004	stage iv	dead	578	--
38469030-8539-4c76-b53b-57073569501c	TCGA-BP-4795	female	white	--	stage i	alive	--	620
0c139772-e303-45d1-b0c7-438fa1db105e	TCGA-A3-3311	male	not reported	2008	stage i	dead	1191	--
f9e6afeb-cf13-4dd7-8a1f-571ab610df4f	TCGA-BP-4353	male	white	2008	stage i	dead	375	--
e9f855b3-291b-449d-9758-caa0f99fa76d	TCGA-B0-5084	male	white	2006	stage iv	dead	222	--
2dde6b93-11a8-424f-9b54-b1a81cd26895	TCGA-BP-4762	male	white	2007	stage i	dead	1343	--
e7c159b7-e7c3-4482-8e80-72402dc3fdb4	TCGA-BP-4163	female	white	--	stage iii	alive	--	2839
a50fe35a-c05b-42a4-a1ce-dac49d6e761d	TCGA-BP-4774	female	white	--	stage i	alive	--	1885
fcecafa8-8b8b-4ae6-81bc-73acf05b211a	TCGA-CZ-4856	female	white	--	stage i	alive	--	18
ab954d5e-a19b-457a-b5b9-172afd6f9abe	TCGA-B8-5159	female	white	--	stage i	alive	--	722
3dd36758-04ad-4ba4-bf17-707649d6f1a0	TCGA-B0-4810	male	white	2002	stage iii	dead	478	--
0242658f-a698-4e68-b6e3-2f4aa076763e	TCGA-BP-4162	female	white	--	stage i	alive	--	3074
98dea82b-46f9-4b77-be8a-06669bcf731b	TCGA-B8-5549	male	white	--	stage i	alive	--	194
8ed08632-b5b3-4be3-bd71-999456fa2d23	TCGA-A3-3380	male	not reported	--	stage i	alive	--	567
28011111-4a01-4cdc-8d6b-7223fb2c501b	TCGA-G6-A8L6	male	black or african american	--	stage iv	dead	313	305
b6abbdcc-f826-499d-b6f1-f6e2c83f9d8b	TCGA-B0-5116	male	white	--	stage iii	alive	--	1274
439794a8-51bd-4c70-968c-34cf26b90148	TCGA-B0-5113	female	white	--	stage iii	alive	--	1175
6b79d20c-d5bc-4580-837e-b36dfd0c199c	TCGA-CZ-5464	male	white	--	stage iv	alive	--	2128
8d5d69a4-7733-4dec-8ddb-64c79c2c956e	TCGA-BP-4768	female	white	--	stage i	alive	--	400
136c95cd-febd-43f0-af35-125d3321a145	TCGA-A3-3365	male	white	--	stage i	alive	--	873
8c6720ef-4f85-4d22-b9bc-6745b55bf6d8	TCGA-B8-4154	female	white	--	stage i	alive	--	1380
5dc807f2-f4f0-434b-b099-43cf41d99cbd	TCGA-BP-5192	male	white	--	stage i	alive	--	714
897f85ec-7e14-426a-a532-eed01ccc90f1	TCGA-A3-3346	male	white	2005	stage i	dead	137	--
ae55b2d3-62a1-419e-9f9a-5ddfac356db4	TCGA-B0-5117	male	white	--	stage i	alive	--	1608
9ceefc7e-fba9-47eb-a0ca-2bc1fccb5490	TCGA-B0-5100	male	black or african american	2003	stage iii	dead	1913	--
3f72d63f-ad48-4500-baf6-897b1d6dda7d	TCGA-B0-4712	male	white	2009	stage iv	dead	1337	--
cc353686-e2b6-46a1-8095-48e2bc44b11f	TCGA-BP-4977	male	white	--	stage i	alive	--	454
d3638a1f-da14-4c78-bb53-a5cc30850cbe	TCGA-BP-5185	male	white	--	stage i	alive	--	1132
06d86d68-0fd5-4c6e-8783-ed732a3291e8	TCGA-CJ-4869	male	white	--	stage iii	alive	--	2554
a7ddd737-714d-423f-8fb5-5a932d014487	TCGA-CZ-5460	male	white	--	stage iv	alive	--	2873
3c1b6de7-c45f-4d86-be4b-a72ca7ca7cf9	TCGA-BP-4165	female	white	--	stage i	alive	--	3037
818022ea-123e-438d-9671-542f479028f2	TCGA-CJ-4875	male	white	--	stage iv	dead	3554	2353
0a6a375b-3b61-453f-a64a-db3d49352949	TCGA-B0-5707	female	white	--	stage i	alive	--	3744
52e9daf0-288b-4220-bd44-0b6147fd951c	TCGA-AK-3456	male	black or african american	--	stage ii	alive	--	1143
c5bf474c-6919-47b4-ba59-34ab20c087d5	TCGA-B0-5120	female	white	--	stage i	alive	--	1169

10c03d66-a290-4e46-9018-2932a236eb09	TCGA-A3-3313	male	black or african american	2007	stage i	dead	735	735
794aeb92-205f-4c75-bb1a-0b2c6db99fea	TCGA-B0-5690	female	white	--	stage i	alive	--	3392
3b2b492b-94af-4540-b283-3b9ef98d5b2f	TCGA-B0-5706	male	white	--	stage ii	alive	--	3205
b15f495d-8598-4404-86b0-519df0f2d504	TCGA-BP-4776	male	white	--	stage i	alive	--	411
b10eb61b-50b8-4df5-8c46-386a1b58c6a6	TCGA-CZ-4862	male	white	--	stage i	alive	--	3271
4fd166d4-0b77-4815-ae6a-2165522f8251	TCGA-CJ-4884	female	white	--	stage iii	alive	--	1759
0709749f-a30a-4fdd-a409-d12be09a5899	TCGA-AK-3450	female	white	--	stage i	alive	--	1779
4519a839-11ea-4628-b5a7-071833ad16de	TCGA-CJ-4916	female	white	--	stage iii	alive	--	1373
3cbca837-f5a7-4a87-8f02-c59eac232d5a	TCGA-A3-3308	female	white	--	stage iii	alive	--	16
936c217f-f10b-43cf-bb6d-0a74ebec9b13	TCGA-DV-5576	female	black or african american	2009	stage i	dead	727	--
878d1caa-c4d8-4864-888c-310a0c1ee898	TCGA-CZ-5468	male	white	2007	stage iv	dead	59	59
75801b19-6569-4345-8134-82344a412c21	TCGA-B0-4718	male	white	--	stage iii	alive	--	1778
798d51ff-182e-406c-8885-8a198d9959d1	TCGA-A3-3378	male	white	--	stage i	alive	--	630
4978eb8d-4a38-470b-9a00-6dd3aada1aa9	TCGA-BP-4338	male	white	--	stage i	alive	--	2859
c4247ccb-8201-428e-a2e7-b5104f095588	TCGA-CZ-5458	male	white	--	stage iii	alive	--	2789
88c91a7b-5c41-4361-85d0-da759ab94204	TCGA-B0-5711	male	white	--	stage iii	alive	--	3989
2b1dea0a-6d55-4fdd-9c1c-0d9fbe03bd78	TCGA-3Z-A93Z	male	black or african american	--	stage i	alive	--	385
52d80054-3745-438c-b96e-e344c4ee4a5d	TCGA-B0-4819	female	white	2002	stage iv	dead	183	183
772e3aed-f211-42a1-9ab2-1c543f581541	TCGA-CJ-4637	female	white	2010	stage iv	dead	2227	--
f2b90375-6806-4833-a927-565674cbf355	TCGA-B8-A7U6	female	black or african american	--	stage i	alive	--	495
d1e4f4c0-08cc-4012-9372-9ab987d80dab	TCGA-CJ-4894	male	white	2007	stage iii	dead	841	841
db601d82-e2e7-469c-91da-3dbfcb477326	TCGA-BP-4964	female	white	--	stage i	alive	--	1862
26cc2c84-aaec-4cd1-9c45-dd08d372128d	TCGA-B0-4706	male	white	2007	stage iii	dead	65	26
28c8c2c6-c7bd-4a35-baaf-54133c2ba3ee	TCGA-EU-5907	male	white	--	stage iii	alive	--	127
226ce515-c12c-4195-bb5d-d6df2e135ff6	TCGA-CZ-4861	male	white	2006	stage ii	dead	446	--
4c3e4727-77f5-4374-9d83-ec86d61b02b2	TCGA-BP-5196	male	white	--	stage i	alive	--	1018
08c1bb22-81f5-4a6d-98ce-f9c31d896eab	TCGA-AK-3461	male	white	--	stage i	alive	--	2217
7fc6b44d-ae66-409c-98e1-c1a518c33e95	TCGA-CZ-4864	male	white	2009	stage ii	dead	2830	2830
820ddb1a-fb51-42e9-8d33-3ebe28d5af93	TCGA-CJ-4872	male	white	--	stage i	alive	--	326
b5f51cf6-1013-4d4b-aff1-4b7e8f6afd9c	TCGA-BP-5006	male	white	--	stage i	alive	--	840
d2664fde-ce3b-45e6-9a23-4a07980f7bac	TCGA-CJ-5677	female	white	2006	stage iv	dead	782	--
ffed886e-261e-464c-aa27-8204dd0eb9a1	TCGA-BP-4790	male	white	2010	stage i	dead	1111	--
ed2e9354-5ee1-4fcf-92ec-a1b507818b91	TCGA-B2-5636	male	white	--	stage i	alive	--	919
6ccd4657-ffa3-4e82-929f-9a7366a89578	TCGA-BP-4993	male	white	--	stage i	alive	--	177
c15d5920-4f59-4e31-9ba6-1f2de8ab5d5d	TCGA-BP-4177	male	white	--	stage i	alive	--	1670
c0e26587-3191-4396-a20b-da9e7de213f4	TCGA-BP-4342	male	white	2009	stage ii	dead	2256	--
ea854858-1dad-4b01-8e58-f19e6a7c41a3	TCGA-DV-5574	male	white	--	stage i	alive	--	2016
b123e7c1-2472-4427-bfeb-79666f971e66	TCGA-MW-A4EC	female	black or african american	--	stage i	alive	--	498
88fc4bc4-32cf-4d92-8c29-20d920b8f719	TCGA-CW-5580	female	white	2008	stage iv	dead	1964	--

830b8de5-fd22-49d6-ad1d-c7cf619bf0ac	TCGA-CJ-4905	female	white	--	stage i	alive	--	1496
96c38b74-c22b-4001-bfd0-a37eda1fbaed	TCGA-A3-A6NJ	female	black or african american	--	stage i	alive	--	468
82f069c4-7928-4b7b-8a42-114db7de0501	TCGA-BP-4994	male	white	--	stage i	alive	--	1308
9256867c-dc82-4e1a-85d6-e4c9bde8ab8c	TCGA-B8-A54D	male	black or african american	--	stage iii	alive	--	830
ff127be4-631a-4e0e-a971-842f9eb6760e	TCGA-B0-4815	male	white	2005	stage iii	dead	1588	--
8f936d84-3b81-4d1c-aca1-93f5c86ed1bc	TCGA-BP-5198	male	white	--	stage iii	alive	--	603
65d56c51-1d58-419e-8c77-a037fc588f5b	TCGA-B8-4621	male	black or african american	--	stage i	alive	--	788
3c4ed50e-d00e-4ffe-b426-41dfdcb7327a	TCGA-BP-4166	male	white	--	stage iii	alive	--	13
382291d3-6f93-4150-ae13-3d5951a39333	TCGA-BP-4803	male	white	--	stage iii	alive	--	204
61c75ffb-9d5d-478e-af48-1808e700aceb	TCGA-CJ-4640	male	white	--	stage iii	alive	--	3480
83bdd67b-3dfd-458b-aaa1-5a0b051056e8	TCGA-BP-4170	female	white	2009	stage i	dead	2343	--
424e5c99-3693-4b10-bbf0-fc43e851610c	TCGA-B2-3924	male	white	--	stage i	alive	--	1092
8d769b38-862f-46e3-a426-d09f79f28de6	TCGA-B0-4821	female	asian	2005	stage iii	dead	1230	--
dc2208d9-dcb3-47ff-826b-676f199b8ccd	TCGA-BP-4989	male	white	--	stage iii	alive	--	118
c558dffe-5aea-467e-ae4c-fdc2a43ab2fe	TCGA-BP-5180	male	white	--	stage i	alive	--	2263
9aa63985-16ba-4d43-a6ec-4a35f2ff6513	TCGA-BP-4999	male	white	--	stage i	alive	--	1266
ec6aa756-c875-49f5-89e4-365b3f18b589	TCGA-BP-4965	male	white	--	stage i	alive	--	1871
d0f908c5-aafd-4b76-a2fb-39b7cc19bcf7	TCGA-B4-5377	female	white	--	stage iv	alive	--	365
6fbf13b2-614b-4c61-824b-81ae25daae31	TCGA-BP-4777	male	white	--	stage i	alive	--	1731
b39d6675-9378-4652-8a28-9b52b8ca88ce	TCGA-A3-A8CQ	female	black or african american	--	stage i	alive	--	3
04beccb3-f513-4d60-b57f-a4382e4eeda3	TCGA-B8-A8YJ	female	black or african american	--	stage i	alive	--	431
740e8238-8633-422a-a94a-83bbd37c6d77	TCGA-CJ-5683	male	white	--	stage i	alive	--	1889
8aaa4e25-5c12-4ace-96dc-91aaa0c4457c	TCGA-B0-5094	male	white	2008	stage iv	dead	333	--
ed97aeee-2a5b-4361-ab4f-f53c3fc5f532	TCGA-BP-4335	female	white	2004	stage iv	dead	475	--
659294b9-ded9-498a-bc00-c1d4d456aa4a	TCGA-A3-3363	male	asian	--	stage ii	alive	--	319
03ae8fdb-8a9c-401d-b8e3-b5ea57bad182	TCGA-B0-5097	female	white	--	stage iii	alive	--	665
f06bdea2-4528-4a14-9cea-280af6b4c702	TCGA-CZ-4858	male	white	--	stage ii	dead	2105	1943
822cf6c1-dd65-4814-94b1-0c335208ad9b	TCGA-CJ-5678	male	black or african american	2004	stage iv	dead	574	--
9d202594-7697-443f-a1ee-d8e7b28ecb8f	TCGA-B0-4849	male	white	2004	stage iii	dead	69	--
028d32fc-1b9f-49c6-9cb2-2d69671943cd	TCGA-BP-5174	female	white	--	stage i	alive	--	2257
c5265ca6-2cb5-406d-a635-c4c783561107	TCGA-AK-3426	male	white	2006	stage iii	dead	885	--
4298ccdb-2e6d-4267-822d-75b021364084	TCGA-B0-4710	female	white	--	stage iii	alive	--	1755
781acafa-a58b-4180-bbca-c5b675d51b17	TCGA-BP-5168	male	white	2006	stage i	dead	1463	--
d51fa004-23e6-41a7-9237-ce9916e2e394	TCGA-B0-5092	female	white	2009	stage iv	dead	459	--
c285ada3-fd49-46a5-882f-b6c352572e2a	TCGA-BP-4985	male	white	2008	stage iii	dead	952	--
73cb1350-7590-4f79-bb86-3f395466652e	TCGA-B2-5639	male	white	--	stage iv	dead	1003	417
b125ff14-4fb4-4f90-8622-fed49bdfe954	TCGA-B8-4622	male	white	--	stage iv	alive	--	1525

b7994839-77a5-4725-aa58-a9e8c79dbfc2	TCGA-CJ-4895	male	white	2008	stage iv	dead	1200	--
03905b58-4b13-410c-8e92-115ab2a42e80	TCGA-B0-4824	female	white	2006	stage i	dead	1657	--
3f93d1cf-a307-4e29-9e6f-239e9ffaa179	TCGA-CW-6093	male	white	--	stage i	alive	--	3146
2ed3296a-5b10-40d8-8af4-90dc031657cd	TCGA-AK-3455	female	white	2008	stage iii	dead	683	--
5daf4808-0393-4791-9927-742c30a20831	TCGA-BP-5194	male	white	--	stage i	alive	--	408
2711b4a4-9e6f-4a12-add6-c10f72e97d3c	TCGA-A3-A8OV	male	black or african american	--	stage i	alive	--	340
1d37becb-7a1f-4d04-a0d1-bb14192b56f6	TCGA-G6-A8L7	female	black or african american	--	stage i	alive	--	2133
99f59583-2728-4c1d-b98c-8fbc3bb0a819	TCGA-CZ-5470	female	not reported	--	stage ii	alive	--	386
2d8da564-e69f-4bfa-a1d3-227a294f3886	TCGA-CJ-4636	male	white	--	stage iii	alive	--	1924
513a4de3-427d-4823-8644-b6faf69a137f	TCGA-BP-4344	female	white	--	stage i	alive	--	1666
62c6edc7-170d-4825-ab81-f88b14013cc5	TCGA-B0-5085	female	white	2007	stage iii	dead	770	--
17d053f2-8760-4f8e-9d25-64508e7f3857	TCGA-AK-3434	male	white	--	stage i	alive	--	2087
ef2d7ef5-cdfc-48c9-b3fe-6eaf3be1106d	TCGA-DV-A4VX	male	black or african american	2012	stage iv	dead	1626	--
e33dff22-5bf1-4dd8-bed7-063cb555677c	TCGA-B0-4700	male	white	2009	stage iv	dead	1980	--
5358b8c7-d69c-4485-9420-03416564187b	TCGA-BP-5181	female	white	--	stage i	alive	--	1495
6ab00314-5228-43ba-9880-9d5177b64c61	TCGA-CJ-6030	male	white	2009	stage i	dead	2299	--
1cdb170b-9765-45ee-9e3e-388d0a419746	TCGA-BP-4158	male	white	--	stage i	alive	--	3377
d62d39f9-c896-4758-a785-e236f0154f14	TCGA-B8-5162	male	white	--	stage ii	alive	--	36
09c4ea05-928d-49b7-b7fb-30cff3481b14	TCGA-CW-5584	male	white	2003	stage iii	dead	164	--
3ea341e3-868a-44f5-937f-e6a93b031544	TCGA-CJ-4882	male	black or african american	--	stage iii	alive	--	1883
5003a0cb-1a60-4c2e-b7f7-6e9245c66968	TCGA-BP-4959	male	white	--	stage i	alive	--	2660
a46f36c3-e886-4efe-945a-0cb2e5b765ef	TCGA-B0-4822	male	white	2005	stage ii	dead	1111	--
beef6a78-a57c-46f1-8f4e-6899f0ba2c6d	TCGA-CJ-6032	female	white	--	stage ii	alive	--	3639
b7143068-4afd-47ed-9e08-1894f886c503	TCGA-B0-5109	male	white	2010	stage iii	dead	587	--
060b2104-a015-400e-86c6-6febfb02bbd3	TCGA-A3-A6NN	male	black or african american	--	stage i	alive	--	3
5f0f03c2-4a39-48c4-a41d-c2990c422741	TCGA-B0-4690	male	white	2008	stage iv	dead	43	--
cdfa3c5d-2fe8-4dfd-92c2-a54f39f55f18	TCGA-CJ-4641	female	white	2009	stage iv	dead	1661	--
5722df9f-5631-476d-a11b-b3c1e9a40fbf	TCGA-CZ-5466	male	not reported	--	stage iii	alive	--	685
04004bc7-cc5c-4683-b334-3e14a7c2f384	TCGA-B0-4843	male	white	2004	stage iii	dead	320	--
fe1f95a3-a6c2-4a39-8586-f8a70e975dd4	TCGA-MM-A563	male	black or african american	--	not reported	alive	--	591
6dc3788e-570f-4f39-9951-dcc7ad51e1f2	TCGA-BP-4765	male	white	--	stage i	alive	--	2184
900b5f21-e8fb-4a3f-b8e3-ef098716e508	TCGA-CJ-4899	male	asian	--	stage i	alive	--	1528
70820391-13b4-438f-ba4a-c0804d4c2d76	TCGA-B4-5838	male	white	--	not reported	alive	--	166
852effcd-8146-46e1-96fa-e5a9f09a88e2	TCGA-CJ-4634	female	white	--	stage i	alive	--	3498
ea26d89f-2843-489b-8627-3d5ed0cabc2a	TCGA-CZ-5984	male	white	--	stage i	alive	--	2067

57578a0d-b719-46e7-83ab-872a4e984dbb	TCGA-B0-4811	male	white	2004	stage iii	dead	1417	--
bf768635-b809-4df4-a4e6-7495e66aa227	TCGA-B0-5709	female	white	--	stage iii	alive	--	3974
80c4fc5b-dc7d-4308-8c81-6e83625963b5	TCGA-BP-4781	male	white	--	stage i	alive	--	2080
cf67eaf8-f5e6-41be-8992-cdb97091e1b0	TCGA-B0-5096	female	white	1998	stage iii	dead	68	--
11ab53c8-6366-4bc9-b60d-23e6ed2d1cae	TCGA-A3-3372	male	white	--	stage iii	alive	--	735
a55e63a9-5046-4f0f-a1e1-197b783d5387	TCGA-A3-3331	female	white	--	stage i	alive	--	1485
267ff78b-bceb-466e-8582-c560fe227ff0	TCGA-CJ-4918	male	white	2005	stage iv	dead	93	--
03b2ac94-05a3-49a7-b68f-51d045395b07	TCGA-B0-5077	male	white	2008	stage i	dead	1317	--
b81243b3-5130-4268-9883-07e547b8d728	TCGA-BP-4325	female	white	--	stage i	alive	--	2964
f6d28a1d-6691-4ac1-8afb-ab0e7dcef867	TCGA-DV-5565	male	white	--	stage i	alive	--	1329
eee108d6-bb11-4369-b776-0f524afef6f3	TCGA-CJ-5672	male	white	2010	stage i	dead	2190	--
2309c424-26fa-4cc6-a22a-2dc0f989af59	TCGA-CJ-4868	male	white	2006	stage iv	dead	646	646
1380d4cc-8f56-4206-bfe6-8e99462fe180	TCGA-B0-4823	male	white	2003	stage i	dead	454	--
2e81cfda-5080-49b8-95ca-ba3963dae30c	TCGA-A3-3326	male	white	--	stage i	alive	--	1137
64aa0dd1-a80e-401e-96df-60d121d2cbec	TCGA-BP-5183	male	white	--	stage iii	alive	--	1291
2d0f6d4f-acb9-4b45-a69d-c9a3f68c3732	TCGA-CW-5581	male	white	--	stage i	alive	--	2799
b9fc9eff-1228-482d-87a2-ebbb5c92733a	TCGA-BP-5191	male	white	--	stage iii	alive	--	967
12c4c4f1-5880-4bf9-9945-80bf45415de6	TCGA-A3-3316	male	white	--	stage ii	alive	--	1493
e7bbc8a9-b63b-4967-812b-f9280a5e181e	TCGA-BP-4167	male	white	--	stage iii	alive	--	2718
fb3a387f-ebc6-4422-a782-5c19056f77f2	TCGA-B0-5104	female	white	2009	stage i	dead	2752	--
18524601-30d9-4dc6-a345-cbdb33349521	TCGA-B0-4827	female	white	2004	stage iii	dead	885	--
39867756-0ef0-4408-a0e1-c85ae7adb8ee	TCGA-BP-4331	male	white	2008	stage i	dead	2454	--
59278f79-4f42-4d1c-9007-3958486042fc	TCGA-B8-5550	male	white	--	stage iii	alive	--	1476
7ac1d6c6-9ade-49af-8794-10b5b96b2b05	TCGA-A3-3307	male	not reported	--	stage iii	alive	--	1436
3280a078-8841-4c5c-a361-b58bc37b965c	TCGA-B8-A54H	female	black or african american	--	stage ii	alive	--	256
57959b73-534d-450c-b09d-f70ef1ffee25	TCGA-BP-4346	male	white	2010	stage iii	dead	1493	--
63dd7202-2ba3-41bb-8d05-8a7b4f34c7d1	TCGA-BP-4784	female	white	--	stage i	alive	--	1854
d65f7f50-2cb0-45e7-866a-ba5c498aef52	TCGA-CJ-4893	female	white	--	stage i	alive	--	750
9f632fc3-2241-469a-a14a-cd537350155f	TCGA-A3-3370	female	white	--	stage i	alive	--	2274
dc6f2273-ffea-41f4-a28b-d03112587f4f	TCGA-BP-4769	male	white	--	stage i	alive	--	1876
d7ab7ec0-3de7-4ffd-a5ac-f75579355b2a	TCGA-B0-5402	male	white	--	stage iv	alive	--	1290
16559faa-8103-4973-a47d-3435443e8ec1	TCGA-DV-5568	male	white	--	stage i	alive	--	370
8f54d854-22ea-4bd0-8cb1-1ab708544095	TCGA-BP-5177	female	white	--	stage i	alive	--	293
9816ac2a-0412-4649-a9da-8fd91b1eb8e1	TCGA-BP-4789	male	white	--	stage i	alive	--	1489
e7c8a4d3-d51e-482a-9045-4de9c9f29945	TCGA-B0-5106	male	white	2008	stage i	dead	1598	--
52db2d93-fcc6-4f80-9668-a0a6ea450738	TCGA-A3-A6NL	female	black or african american	--	stage i	alive	--	689
69fb3eff-a32c-48e1-aab8-645ef31d163a	TCGA-A3-3367	male	white	--	stage i	alive	--	2270
8958c2bf-b986-4c07-98d2-09dfe2375a14	TCGA-BP-4345	male	white	--	stage iii	alive	--	1516
5db69ebe-38db-4ef3-b825-674b4a6ddaee	TCGA-CJ-5680	female	white	2005	stage iv	dead	768	--
326745d8-98ca-4f4d-b217-96aea9faa1ad	TCGA-B0-5812	male	white	--	stage i	alive	--	3834
52d73201-9333-422f-a530-5958e866a298	TCGA-B2-4098	female	black or african american	2010	stage i	dead	51	--
f2806652-1d7b-4c46-bb4e-ac7a2c96c68d	TCGA-CZ-5988	male	white	--	stage i	alive	--	693

692f9978-ada8-43aa-81a1-108464c81609	TCGA-CJ-4903	male	white	--	stage i	alive	--	1559
5f53ace3-14ca-412a-af6c-98d8996f8177	TCGA-CW-6097	male	white	2005	stage iii	dead	571	--
86f68b7d-30f9-4f01-a9ea-5db1fcd00453	TCGA-CZ-4853	male	white	--	stage i	alive	--	774
6205c2d8-d431-4c4c-8ac6-ee407170e833	TCGA-CZ-5469	male	white	2009	stage ii	dead	946	--
479035f0-649e-4396-b023-1649a23a01f1	TCGA-B0-5081	female	white	2005	stage iii	dead	362	--
9490cd1e-be30-45d3-b1ea-42c157d5f49d	TCGA-BP-5176	female	white	2008	stage i	dead	1590	--
fa543627-9e3c-4af9-bb33-f0cdd9fbc9cc	TCGA-AK-3451	male	white	--	stage ii	alive	--	2868
1d176c53-6cbb-4a39-9a6f-669b4f1cb575	TCGA-B0-5696	male	white	--	stage iii	alive	--	2609
e4cc8898-d1d8-4f6d-b01c-04cd30f0cd8f	TCGA-A3-3359	female	white	--	stage i	alive	--	2504
c01afa58-af3f-40f1-b4fe-36909ae3871e	TCGA-BP-4970	male	asian	--	stage iii	alive	--	433
9fd9104b-a26d-44c7-bb45-f1edd76d0aa0	TCGA-CW-5590	male	white	2006	stage iv	dead	1075	--

Table SIII. The research status of the 16 candidate genes.[a]

No.	Gene ID	Gene Symbol	Uniprot definition	Transcript	Pubmed literature	Novoseek disease relationships for the gene	MalaCards disease relationships for the gene
1	164668	APOBEC3H	DNA dC->dU-editing enzyme APOBEC-3H	4	41	0	1
2	219670	ENKUR	Enkurin	2	9	0	0
3	170384	FUT11	Alpha-(1,3)-fucosyltransferase 11	2	8	0	0
4	152007	GLIPR2	Golgi-associated plant pathogenesis-related protein 1	6	22	0	0
5	197259	MLKL	Mixed lineage kinase domain-like protein	2	22	0	0
6	158046	NXNL2	Nucleoredoxin-like protein 2	2	6	0	0
7	11339	OIP5	Opa interacting protein 5	1	19	0	0
8	170392	OIT3	Oncoprotein-induced transcript 3 protein	1	9	0	1
9	153770	PLAC8L1	PLAC8-like protein 1	1	2	0	0
10	51177	PLEKHO1	Pleckstrin homology domain containing O1	4	30	0	0
11	158471	PRUNE2	Protein prune homolog 2	1	28	0	0
12	166824	RASSF6	Ras association domain-containing protein 6	4	20	0	1
13	221150	SKA3	Spindle and kinetochore-associated protein 3	2	28	0	1
14	9319	TRIP13	Pachytene checkpoint protein 2 homolog	2	36	0	1
15	29089	UBE2T	Ubiquitin-conjugating enzyme E2 T	1	39	0	0
16	162967	ZNF320	Zinc finger protein 320	1	9	0	0

[a]In June, 2016, we consulted Pubmed, Novoseek and MALACards to obtain the research status of the 16 candidate genes.

Table SIV. Differential genes (593) were elected according to the criterion in which absolute fold change was > 2, while P-value <0.05.

KD			NC			P-value		Fold change				Annotation
3201-1_(PrimeView).CEL	3201-2_(PrimeView).CEL	3201-3_(PrimeView).CEL	3200-1_(PrimeView).CEL	3200-2_(PrimeView).CEL	3200-3_(PrimeView).CEL	Corrected P-value	P-value	Fold change	Log Fold change	Absolute Fold change	Regulation	Gene Symbol
-0.569952	-0.58578587	-0.5086498	0.5396662	0.5277796	0.5086508	0.000110858	1.77012E-06	-2.1142726	-1.0801615	2.1142726	down	RPL14
0.6749511	0.5680046	0.77847767	-0.5930228	-0.5680046	-0.8224964	0.000572655	0.000191092	2.5227299	1.3349857	2.5227299	up	OSMR
0.5849552	0.6189747	0.6475458	-0.58495474	-0.76757383	-0.82541704	0.000338817	5.62037E-05	2.5370297	1.3431405	2.5370297	up	NAA15
-0.8474088	-0.7094898	-0.62633467	0.82821465	0.6323776	0.62633514	0.00043671	0.000103985	-2.6821442	-1.4233868	2.6821442	down	SYNCRIP
-0.82208157	-1.0609283	-0.73070335	0.8081665	0.7981901	0.73070335	0.000393533	8.34376E-05	-3.1388972	-1.6502578	3.1388972	down	MED20
0.4026127	0.5512233	0.70119905	-0.4026122	-0.5114069	-0.55289173	0.000867266	0.000430347	2.0571525	1.0406487	2.0571525	up	ISG20
-0.7079916	-0.6397543	-0.6678438	0.8042221	0.6397543	0.7151871	0.000187426	1.11453E-05	-2.6236665	-1.3915844	2.6236665	down	CTNNB1
-0.5789747	-0.6244526	-0.61786795	0.6747589	0.659482	0.5789752	0.000129202	2.92284E-06	-2.3699179	-1.244837	2.3699179	down	LPHN2
-0.67567205	-0.7574377	-0.67477036	0.68117523	0.77438164	0.6747699	0.000147081	4.78312E-06	-2.6624155	-1.4127357	2.6624155	down	MAP3K5
-0.6160822	-0.75618553	-0.71923447	0.63325405	0.6160822	0.6829109	0.000178281	8.57313E-06	-2.533707	-1.3412497	2.533707	down	CDCA7
-0.6351013	-0.6544132	-0.54007816	0.71987057	0.5759487	0.54007816	0.000314212	4.80905E-05	-2.3324242	-1.2218301	2.3324242	down	SERPINE2
-0.5632682	-0.44519663	-0.5238948	0.6063781	0.73482704	0.44519663	0.000668736	0.00025929	-2.152859	-1.1062539	2.152859	down	BTBD2
-0.74055624	-0.4606552	-0.54786587	0.63494205	0.4606552	0.5886674	0.000725758	0.000304347	-2.2106142	-1.1444473	2.2106142	down	DHX33
-0.8241739	-0.7893715	-0.74066544	0.7638016	0.84413147	0.74066544	0.000116193	2.43707E-06	-2.9641185	-1.5676031	2.9641185	down	PDHA1
0.5898752	0.6092739	0.5518756	-0.5518756	-0.8185859	-0.6463766	0.000417833	9.55531E-05	2.3882506	1.2559543	2.3882506	up	CCNA1
-0.8060765	-0.6977782	-0.73916245	0.74849033	0.69777775	0.7023144	0.000112738	2.05958E-06	-2.7584665	-1.4638665	2.7584665	down	GNG4
-1.6573362	-1.5691957	-1.6124954	1.7241373	1.5691957	1.5971584	8.01385E-05	4.61684E-07	-9.468742	-3.243173	9.468742	down	GNG5
-0.6084242	-0.6071453	-0.4732256	0.5340843	0.51733017	0.4732256	0.000241272	2.46496E-05	-2.1011004	-1.071145	2.1011004	down	CDCA5
0.7935815	0.8085742	0.7987828	-1.0249104	-0.8868804	-0.7935815	0.00020631	1.4545E-05	3.2537506	1.7021036	3.2537506	up	DDAH1
-0.5541463	-0.5604601	-0.60774994	0.5541458	0.6206856	0.68592453	0.000179371	8.78652E-06	-2.28845	-1.1943707	2.28845	down	LOC647979
-0.6407418	-0.54442835	-0.4580741	0.5961571	0.45807362	0.51105976	0.000398261	8.6585E-05	-2.098723	-1.0695117	2.098723	down	TBPL1
0.6978235	0.6669502	0.7363863	-0.6669502	-0.71713066	-0.8071499	0.000160368	6.18469E-06	2.695956	1.430797	2.695956	up	RAB27A
-0.6696739	-0.6403761	-0.65687656	0.69690895	0.6403761	0.6631775	8.01385E-05	2.28552E-07	-2.5009272	-1.322463	2.5009272	down	PTPRJ
-0.74888706	-0.59462976	-0.68568325	0.7266407	0.59462976	0.64949894	0.000231032	2.25717E-05	-2.5198243	-1.3333231	2.5198243	down	PTPRK
-0.68147755	-0.5365248	-0.60119724	0.68315697	0.5365248	0.5379982	0.000316446	4.95089E-05	-2.2851567	-1.1922932	2.2851567	down	GTF2IP1
0.5199728	0.6308603	0.6218729	-0.5199728	-0.57882595	-0.6649971	0.000253451	2.82603E-05	2.2639372	1.178834	2.2639372	up	PTPRG
-0.5164013	-0.5660887	-0.60042286	0.5987463	0.5164013	0.59271336	0.000159877	6.1441E-06	-2.1889787	-1.130258	2.1889787	down	RXRA
-0.8395076	-0.76919985	-0.47990894	0.5843425	0.51418114	0.47990942	0.000870466	0.000432399	-2.3332644	-1.2223498	2.3332644	down	CRTAP

-0.4103527	-0.5486355	-0.5131898	0.76580906	0.60715103	0.41035223	0.001054621	0.000610367	-2.1216156	-1.0851634	2.1216156	down	MECP2
-0.58626986	-0.62766266	-0.505517	0.57961845	0.505517	0.60989	0.000217993	1.7854E-05	-2.2009988	-1.1381583	2.2009988	down	DCDC2
0.66824675	0.6377287	0.69272184	-0.6709366	-0.6377282	-0.6725817	8.01385E-05	2.82155E-07	2.508192	1.3266479	2.508192	up	GEM
-0.63316154	-0.8647046	-0.64186716	0.7853246	0.8702755	0.63316154	0.000491953	0.000136269	-2.7820823	-1.476165	2.7820823	down	SIRPA
0.43991375	0.48039436	0.580039	-0.43991327	-0.6004324	-0.68324804	0.000591188	0.000202156	2.1062067	1.074647	2.1062067	up	PLAUR
-0.91158676	-1.1090164	-0.6998992	0.91499186	0.86548996	0.6998987	0.000602623	0.000211041	-3.3256297	-1.7336276	3.3256297	down	CTDSPL2
-1.0517459	-0.47099257	-0.58669424	0.6476865	0.47099257	0.6288233	0.002792437	0.002303181	-2.4379103	-1.285645	2.4379103	down	SCYL2
-0.6430187	-0.5938182	-0.59012747	0.70501995	0.7495432	0.59012794	0.000204308	1.38786E-05	-2.4462159	-1.2905518	2.4462159	down	C1orf198
-0.9886751	-0.92456436	-0.54800177	0.71308184	0.54800177	0.6251731	0.001014169	0.000570734	-2.7305017	-1.449166	2.7305017	down	BACE1
0.5243645	0.49772835	0.5938816	-0.5588641	-0.61729336	-0.49772787	0.000214144	1.66268E-05	2.1385305	1.0966198	2.1385305	up	WFDC3
0.42833042	0.49761295	0.55016804	-0.42833042	-0.56026936	-0.72799015	0.000769059	0.000341404	2.091059	1.0642338	2.091059	up	IL1R2
-0.51078415	-0.54712343	-0.50888586	0.64898443	0.5283141	0.50888586	0.000219598	1.84721E-05	-2.1203847	-1.084326	2.1203847	down	GNAI1
-0.58310413	-0.604764	-0.49901867	0.55810356	0.54922485	0.49901867	0.000173125	7.79154E-06	-2.1401987	-1.0977447	2.1401987	down	C7orf50
-0.7740469	-0.50594664	-0.57926273	0.7007446	0.50594664	0.5116596	0.000734606	0.000311338	-2.285541	-1.1925358	2.285541	down	LOC100509445
0.62444305	0.49725914	0.5781288	-0.49725914	-0.5671482	-0.563251	0.00020556	1.40953E-05	2.1572046	1.109163	2.1572046	up	PPP1R3B
-0.65866375	-0.62332153	-0.71659946	0.7176647	0.6999521	0.62332153	0.000147081	4.51522E-06	-2.5429583	-1.3465078	2.5429583	down	FAM162A
0.51455116	0.4592495	0.51465034	-0.4592495	-0.56963253	-0.6152859	0.000264858	3.07149E-05	2.0622315	1.0442063	2.0622315	up	ARNTL2
0.50753593	0.5359564	0.5955944	-0.54585934	-0.507535	-0.6501169	0.000236553	2.37833E-05	2.1647482	1.1141993	2.1647482	up	RCHY1
-0.7953124	-0.57578135	-0.6299114	0.63847065	0.58854866	0.57578087	0.000321993	5.08479E-05	-2.4081664	-1.267935	2.4081664	down	VEZF1
-1.0486307	-0.9854951	-0.8360896	1.1586847	1.0731401	0.83608913	0.000361537	6.74152E-05	-3.943226	-1.9793764	3.943226	down	TCF3
-0.86840725	-0.7300353	-0.68054485	0.68054485	0.7026205	0.8405509	0.000284474	3.73397E-05	-2.8301945	-1.5009012	2.8301945	down	RPS23
-0.8501582	-0.7449131	-0.7993264	0.7449136	0.7795081	0.7498927	9.59161E-05	1.10323E-06	-2.9408586	-1.5562375	2.9408586	down	GPD2
-0.5370803	-0.51569843	-0.6160097	0.61335945	0.51569843	0.5487199	0.000189376	1.17973E-05	-2.166734	-1.115522	2.166734	down	CXorf40B
0.8823447	0.6431627	1.1150179	-0.73114944	-0.64605427	-0.6431625	0.00079718	0.000367214	2.9355495	1.5536306	2.9355495	up	TGFBR1
-0.5297594	-0.5611625	-0.45861292	0.6542883	0.48551083	0.4586134	0.00043845	0.000104955	-2.0695481	-1.0493158	2.0695481	down	C6orf211
-0.6278639	-0.65713024	-0.5396819	0.54720306	0.59143066	0.53968143	0.000170886	7.27171E-06	-2.2464762	-1.1676638	2.2464762	down	DUSP22
-0.5370803	-0.51569843	-0.6160097	0.61335945	0.51569843	0.5487199	0.000189376	1.17973E-05	-2.166734	-1.115522	2.166734	down	CXorf40A
-0.9562526	-0.6869178	-0.7194109	0.8293705	0.819448	0.6869178	0.000395876	8.43715E-05	-2.9610438	-1.5661058	2.9610438	down	TINAGL1
-0.7740469	-0.50594664	-0.57926273	0.7007446	0.50594664	0.5116596	0.000734606	0.000311338	-2.285541	-1.1925358	2.285541	down	OVOS2
0.497128	1.0209398	1.3854537	-0.497128	-0.596159	-0.7304907	0.004603741	0.00409789	2.980938	1.5757663	2.980938	up	SYNGR3
-1.3174515	-1.2948952	-1.2175088	1.2507172	1.3020954	1.2175093	8.01385E-05	3.36575E-07	-5.7893143	-2.5333924	5.7893143	down	EI24
-0.7549038	-0.5701685	-0.57990646	0.61170006	0.5701685	0.5998535	0.000282523	3.64897E-05	-2.3438823	-1.2289002	2.3438823	down	LASP1
0.72619486	0.8942528	0.70170546	-0.70170546	-0.9962683	-0.775362	0.000462619	0.000117871	3.028275	1.5984962	3.028275	up	RGS4

-0.67286396	-0.44424152	-0.5316448	0.6150007	0.44424152	0.4761448	0.000633379	0.000233955	-2.0869257	-1.0613792	2.0869257	down	HOXA10-HOXA9
0.6327467	0.67905426	0.73749495	-0.7374668	-0.69686556	-0.6327472	0.000154837	5.74091E-06	2.5885158	1.3721251	2.5885158	up	AREG
-0.82841253	-0.7636833	-0.6067858	0.66426945	0.6067858	0.6422281	0.000280594	3.55301E-05	-2.5859988	-1.3707216	2.5859988	down	PARP1
0.48914242	0.4170828	0.59852505	-0.41708326	-0.5835476	-0.66076183	0.000709597	0.000291769	2.0782669	1.055381	2.0782669	up	BTBD11
-0.86133385	-0.8593683	-0.8582039	0.950655	0.8582039	0.8685837	8.01385E-05	4.65488E-07	-3.3685231	-1.7521162	3.3685231	down	RTN4
0.6414108	0.6288519	0.74864006	-0.747674	-0.6288519	-0.8735347	0.000345008	5.93376E-05	2.6814024	1.4229878	2.6814024	up	FGF5
0.48847198	0.54296875	0.54820824	-0.48847198	-0.66493607	-0.59402084	0.000279622	3.49622E-05	2.1569996	1.109026	2.1569996	up	LIMA1
-0.67291164	-1.029098	-0.5927024	0.6637392	0.59270287	0.6752405	0.000938826	0.000498278	-2.655159	-1.4087982	2.655159	down	BCKDK
-0.52668095	-0.5323181	-0.4438362	0.5164585	0.5555353	0.4438362	0.000226171	2.06277E-05	-2.0086439	-1.0062218	2.0086439	down	ELF3
-0.5705447	-0.43945503	-0.54157305	0.54251575	0.5477524	0.43945503	0.000298677	4.22351E-05	-2.0379217	-1.0270987	2.0379217	down	UBE2G1
-0.51874495	-0.9173765	-0.43585873	0.5944953	0.44082165	0.43585825	0.002588915	0.002105114	-2.1650271	-1.1143851	2.1650271	down	NAP1L1
-0.55802536	-0.5081339	-0.4381237	0.6204157	0.44860268	0.4381237	0.000473804	0.000126657	-2.0052865	-1.0038083	2.0052865	down	PDIA5
-0.9341445	-0.88952017	-0.8481469	0.915225	0.9038849	0.84814644	8.42625E-05	6.5334E-07	-3.4335222	-1.7796893	3.4335222	down	MAP1LC3B
-0.7448826	-0.89254713	-0.6017456	0.6017451	0.7588663	0.6225252	0.000486455	0.000133031	-2.6526556	-1.4074373	2.6526556	down	DLEU2
0.7444887	0.87477684	1.0428	-0.9306526	-0.7444887	-0.8892093	0.000371532	7.20441E-05	3.345307	1.7421386	3.345307	up	USP12
0.5234933	0.7429395	0.79894066	-0.98320603	-0.5234933	-0.62702227	0.001468144	0.001001676	2.638464	1.3996983	2.638464	up	FGF1
0.6128659	0.53749037	0.50796795	-0.5366545	-0.5362458	-0.50796795	0.000148395	4.98162E-06	2.1136415	1.0797307	2.1136415	up	ARL5B
-0.58860874	-0.6993246	-0.6177778	0.6674652	0.60116863	0.58860826	0.000169283	6.92339E-06	-2.385543	-1.2543178	2.385543	down	FGF2
-0.6756406	-0.69719887	-0.55495214	0.55495167	0.60012436	0.5862837	0.000191056	1.21377E-05	-2.3343978	-1.2230504	2.3343978	down	USP14
-0.56606674	-0.5122795	-0.60022736	0.594532	0.5391693	0.5122795	0.000159125	6.09157E-06	-2.1557424	-1.1081848	2.1557424	down	RAP2B
-0.91676664	-0.62016296	-0.6287818	0.62016296	0.6495104	0.72999763	0.000553146	0.00017419	-2.6179924	-1.3884609	2.6179924	down	ARHGEF3
0.6467571	0.52428246	0.6392269	-0.5823331	-0.524282	-0.56276226	0.000187426	1.13793E-05	2.2343905	1.1598814	2.2343905	up	AIFM2
0.51804733	0.61337376	0.5809417	-0.51804733	-0.5924778	-0.5672302	0.000156098	5.80878E-06	2.1886473	1.1300395	2.1886473	up	ACTA2
-0.7816801	-0.58117676	-0.5078716	0.5557022	0.57689095	0.5078716	0.000523093	0.000156358	-2.2507374	-1.1703978	2.2507374	down	ZDHHC7
-0.50078297	-0.57368517	-0.57010984	0.8760638	0.9952884	0.50078297	0.001346419	0.000890604	-2.5295913	-1.3389044	2.5295913	down	GTF2H3
-0.80961275	-0.7722378	-0.57969666	0.69295406	0.6417589	0.57969666	0.00035459	6.50642E-05	-2.5644553	-1.3586524	2.5644553	down	HN1
-0.6294308	-0.4566164	-0.5210142	0.55421686	0.46389055	0.4566164	0.000355878	6.55935E-05	-2.0381522	-1.0272617	2.0381522	down	LRRC23
0.4789195	0.47208834	0.5856886	-0.47208834	-0.54182005	-0.7348623	0.000625164	0.000226886	2.1363614	1.0951557	2.1363614	up	FMN1
-0.8951559	-0.83230305	-0.59484386	0.6724582	0.5948434	0.70937824	0.000470968	0.000124593	-2.7000651	-1.4329942	2.7000651	down	MTMR12
-0.9267168	-0.7219305	-0.5742879	0.63376856	0.6465988	0.5742879	0.000591188	0.000202256	-2.5654233	-1.3591969	2.5654233	down	SERPINB9
-0.8724451	-0.67540693	-0.6844063	0.73696613	0.70719147	0.67540646	0.000247088	2.63607E-05	-2.733231	-1.4506074	2.733231	down	CCND1
0.48708963	0.47833538	0.5686097	-0.5088906	-0.5215144	-0.4783349	0.000152975	5.52698E-06	2.019864	1.0142581	2.019864	up	FAM167A
-0.51174164	-0.56109715	-0.505538	0.58524513	0.5392399	0.505538	0.000133779	3.24038E-06	-2.0986574	-1.0694666	2.0986574	down	VCAN

0.48111582	0.48609877	0.5607281	-0.48111582	-0.5801015	-0.8034406	0.000757109	0.000331725	2.1899028	1.1308669	2.1899028	up	KIAA1217
-0.6172762	-0.4471674	-0.38851357	0.6965227	0.5250006	0.38851357	0.001267734	0.000815879	-2.0293224	-1.020998	2.0293224	down	WDR41
0.63481617	0.70066214	0.76646423	-0.63481617	-0.7773018	-0.7737789	0.000221003	1.88837E-05	2.6931224	1.4292798	2.6931224	up	STBD1
-0.79923725	-0.7740326	-0.7350235	0.871398	0.7530699	0.7350235	0.000147081	4.82774E-06	-2.9402285	-1.5559282	2.9402285	down	DEGS1
-0.6676669	-0.6069484	-0.84215117	0.6069484	0.83713865	0.74093485	0.000469266	0.000122301	-2.701816	-1.4339294	2.701816	down	POLA1
0.5530162	0.4703436	0.5904646	-0.4703436	-0.5506315	-0.6727381	0.00040123	8.82272E-05	2.1472833	1.1025126	2.1472833	up	FPR1
0.57932425	0.5460124	0.6348939	-0.806705	-0.63450766	-0.5460124	0.000434363	0.000102213	2.3770165	1.249152	2.3770165	up	ABHD2
-0.7225666	-0.7154932	-0.5882368	0.67434216	0.5883789	0.5882368	0.000210321	1.58239E-05	-2.4493828	-1.2924182	2.4493828	down	GNG12
0.61080265	0.49192953	0.53129435	-0.6030531	-0.80390596	-0.49192953	0.000687469	0.00027229	2.2620618	1.1776384	2.2620618	up	IL7R
-0.7822199	-0.76792765	-0.66637325	0.69061947	0.6663742	0.68168354	0.000125862	2.81018E-06	-2.6728878	-1.4183993	2.6728878	down	SF3B2
-0.5611043	-0.5545845	-0.5341253	0.5341258	0.5961027	0.6301708	0.000119884	2.62395E-06	-2.1988328	-1.1367378	2.1988328	down	SORBS1
1.1518574	1.2181215	1.2586603	-1.1518579	-1.1700811	-1.2990122	0.000110225	1.70004E-06	5.3388543	2.4165301	5.3388543	up	CCL20
0.6115742	0.648674	0.6019373	-0.6019373	-0.64111805	-0.6672716	8.50796E-05	7.59845E-07	2.3908179	1.2575042	2.3908179	up	CRISPLD2
-0.53742695	-0.5088968	-0.5667734	0.67812634	0.5088968	0.5465441	0.000271726	3.23203E-05	-2.166783	-1.1155548	2.166783	down	LOC100506732
-0.7759037	-0.70859003	-0.6471853	0.8451538	0.78969765	0.6471853	0.000261689	2.97777E-05	-2.7725983	-1.4712386	2.7725983	down	DHCR7
0.81561947	0.7939482	0.83776855	-0.79394865	-0.8703389	-0.96543455	0.000148395	4.9919E-06	3.2318332	1.6923528	3.2318332	up	GLIPR1
-0.66622543	-0.57725334	-0.7263279	0.6662245	0.57725286	0.5838442	0.000214599	1.67824E-05	-2.4044542	-1.2657094	2.4044542	down	ANKS6
-0.5762892	-0.82530355	-0.65757656	0.5762887	0.7410259	0.658185	0.00043671	0.000104007	-2.5401077	-1.3448896	2.5401077	down	CERK
-0.46615124	-0.5456376	-0.5300069	0.5368438	0.4661517	0.5479884	0.00017581	8.20494E-06	-2.0433362	-1.0309266	2.0433362	down	TRIP10
-0.5455122	-0.4695568	-0.48864555	0.5124531	0.5668011	0.4695568	0.000182139	9.5558E-06	-2.0244198	-1.0175085	2.0244198	down	PAPSS2
-0.6912408	-0.5645628	-0.5863018	0.6692834	0.5645628	0.61394644	0.000207477	1.54976E-05	-2.3456144	-1.2299659	2.3456144	down	PCSK5
0.50549936	0.45877075	0.44498682	-0.4913993	-0.44498682	-0.65547323	0.000455158	0.000113266	2.000516	1.0003722	2.000516	up	ZNF267
-0.62811184	-0.64719677	-0.46006775	0.6604681	0.46006775	0.47109795	0.000627819	0.000229404	-2.1569657	-1.1090033	2.1569657	down	SSRP1
-0.6739807	-0.4822936	-0.52585125	0.5767937	0.54631424	0.48229408	0.000364231	6.97411E-05	-2.1373787	-1.0958426	2.1373787	down	SHMT1
0.8070679	0.823679	0.82415485	-0.8070679	-0.9226246	-0.9005203	9.91248E-05	1.19798E-06	3.2378542	1.6950381	3.2378542	up	IL6
0.73043823	0.7520399	0.7391844	-0.7304392	-0.85637665	-0.75916386	0.000116865	2.47263E-06	2.872979	1.5225474	2.872979	up	IL8
-0.9620886	-0.82053804	-0.34703016	0.36357975	0.34703016	0.4247136	0.004885417	0.004379687	-2.126273	-1.0883268	2.126273	down	AMACR
-0.66946745	-0.6684623	-0.53517103	0.6626425	0.56963253	0.53517056	0.000271388	3.22066E-05	-2.3190205	-1.2135155	2.3190205	down	LOC100506748
0.5451193	0.5883117	0.6487317	-0.7476363	-0.6599002	-0.5451193	0.00030801	4.62021E-05	2.3700862	1.2449396	2.3700862	up	PHF10
0.8136916	0.753891	0.7581401	-0.753891	-1.0569625	-0.9018159	0.000313231	4.7684E-05	3.2030895	1.6794641	3.2030895	up	LOC730755
0.64071417	0.42654896	0.4467082	-0.42654896	-0.4710827	-0.6993432	0.001119759	0.000672613	2.0519307	1.036982	2.0519307	up	MARCH4
0.77377415	0.7013073	0.89407253	-0.7363682	-0.7013073	-0.7295084	0.000191056	1.21941E-05	2.8522742	1.5121126	2.8522742	up	MARCH3
-0.73888683	-0.8111682	-0.62397957	0.76047707	0.7044964	0.62397957	0.000262107	2.98793E-05	-2.677703	-1.420996	2.677703	down	PLSCR1

0.8090687	0.7767544	0.7780819	-0.7767544	-0.86005116	-0.89489746	0.000110225	1.5137E-06	3.099143	1.6318693	3.099143	up	TFRC
0.5234728	0.61617756	0.5760555	-0.5234728	-0.61078453	-0.6675987	0.000221106	1.92507E-05	2.2540517	1.1725206	2.2540517	up	DUSP1
-0.681684	-0.6720977	-0.47880363	0.5090103	0.47880363	0.56525993	0.000405992	9.04279E-05	-2.1863935	-1.1285532	2.1863935	down	GSK3B
0.51423836	0.5224066	0.6728058	-0.61747026	-0.5744753	-0.51423836	0.000303595	4.42775E-05	2.2015884	1.1385448	2.2015884	up	AOX1
-0.8644104	-0.6850643	-0.6617508	0.80291176	0.67262936	0.6617508	0.000320385	5.05072E-05	-2.731145	-1.4495058	2.731145	down	BNIP3L
0.43139362	0.5889044	0.5337696	-0.43139315	-0.4752679	-0.56965446	0.000390209	8.09105E-05	2.0140893	1.0101277	2.0140893	up	HSPA4L
-0.59827423	-0.6868572	-0.49725723	0.5425997	0.49725723	0.50799084	0.000292733	3.94535E-05	-2.1585743	-1.1100788	2.1585743	down	GFRA1
0.6044555	0.60124063	0.7120595	-0.60124063	-0.6072993	-0.78485584	0.000318611	4.99689E-05	2.468641	1.3037171	2.468641	up	HBEGF
0.63422966	0.71699524	0.6901741	-0.63423014	-0.6535363	-0.88849163	0.000387582	7.92995E-05	2.649804	1.4058857	2.649804	up	SH3RF2
-0.561254	-0.5742159	-0.4421711	0.6047497	0.4421711	0.5066118	0.000386898	7.89534E-05	-2.061543	-1.0437245	2.061543	down	CMTM7
-0.59319925	-0.67959213	-0.5196943	0.59982777	0.5196943	0.6088772	0.000247463	2.69212E-05	-2.255783	-1.1736283	2.255783	down	TCEB1
-1.1303082	-0.67043924	-1.0046277	0.9747267	0.9067459	0.67043877	0.000852885	0.000416718	-3.4480057	-1.7857622	3.4480057	down	DPYD
0.39218616	0.48939085	0.3753004	-0.48935223	-0.3753004	-0.93061256	0.004688127	0.004179982	2.0242407	1.017381	2.0242407	up	KATNAL1
0.39311504	0.49375582	0.5467229	-0.39311504	-0.75711584	-0.6849222	0.001268251	0.000816806	2.1281242	1.0895823	2.1281242	up	MPZL3
-0.6452327	-0.46628475	-0.8451557	0.56908035	0.55686665	0.46628475	0.000932055	0.000489055	-2.2704341	-1.1829683	2.2704341	down	JDP2
-0.9952216	-1.1145406	-1.1214023	1.0767369	1.041511	0.9952216	0.000110225	1.4935E-06	-4.3315344	-2.1148782	4.3315344	down	CTDSPL
0.6260648	0.4459343	0.6759968	-0.4459343	-0.46010685	-0.80093527	0.001514854	0.001049533	2.2216897	1.1516573	2.2216897	up	LOC100287723
-0.7084508	-0.7637243	-0.5792856	0.886034	0.59240246	0.5792856	0.000690513	0.000275791	-2.5842178	-1.3697276	2.5842178	down	CNOT6
0.55085945	0.49478722	0.63889027	-0.5811806	-0.49478722	-0.66948986	0.000351896	6.35927E-05	2.2089052	1.1433315	2.2089052	up	TGFB2
0.45340538	0.47051144	0.57890844	-0.5899801	-0.6851239	-0.45340538	0.000526109	0.000158473	2.1098077	1.0771115	2.1098077	up	CSNK2A2
-0.49882746	-0.45046806	-0.53631353	0.7862358	0.500052	0.4504676	0.001007026	0.00056484	-2.1054397	-1.0741215	2.1054397	down	PRKAR2B
-0.6192646	-0.5342808	-0.52129173	0.52129173	0.6079712	0.6002245	0.00018513	1.04965E-05	-2.195843	-1.1347749	2.195843	down	CSNK2A1
0.90676165	0.8663459	1.118412	-0.8871503	-0.8663459	-0.89441586	0.000221175	1.94771E-05	3.5962098	1.8464772	3.5962098	up	SLC2A3
-0.75001574	-0.6062441	-0.78997374	1.0501347	0.88835335	0.60624456	0.000810504	0.000378052	-2.9560187	-1.5636554	2.9560187	down	MDFIC
-0.7087321	-0.76798296	-0.5175719	0.6354265	0.61521816	0.51757145	0.000460654	0.000116455	-2.385295	-1.2541677	2.385295	down	CDKN2C
-0.6170111	-0.6040621	-0.5688338	0.65572166	0.6191225	0.56883335	0.000112738	1.96694E-06	-2.315293	-1.2111948	2.315293	down	FBXO28
-0.6321244	-0.5722847	-0.44946623	0.53575134	0.4732666	0.44946623	0.000352466	6.39515E-05	-2.0526009	-1.0374532	2.0526009	down	ZNF445
0.573792	0.43863153	0.7137165	-0.43863153	-0.56366396	-0.6171794	0.000727813	0.000306489	2.1662579	1.115205	2.1662579	up	LONRF1
-0.80787945	-0.6970916	-0.763289	0.6970916	0.872108	0.76789045	0.000205416	1.40094E-05	-2.8981187	-1.5351167	2.8981187	down	FBXO21
-0.76104355	-0.8886819	-0.9540129	0.76104355	0.9015465	0.80468845	0.000217781	1.76926E-05	-3.227325	-1.6903389	3.227325	down	FNDC3A
-0.4380226	-0.5617194	-0.6985223	0.46362543	0.4380226	0.50622416	0.000563938	0.000184443	-2.0496519	-1.0353789	2.0496519	down	C1orf116
0.7441187	0.779418	0.97802067	-0.7441182	-0.8590708	-1.0382395	0.000444469	0.000107596	3.281439	1.7143286	3.281439	up	SAMD4A
-0.4374385	-0.5785613	-0.59649277	0.52775	0.6435952	0.4374385	0.000532804	0.000161644	-2.1049104	-1.0737588	2.1049104	down	RDM1

-0.7039256	-0.5363941	-0.45927143	0.5943923	0.5858607	0.45927143	0.000572655	0.000191006	-2.1630073	-1.1130385	2.1630073	down	TMEM167A
-0.54812527	-0.7464113	-0.7387495	0.8807411	0.54812527	0.7542887	0.000687168	0.000271891	-2.6490598	-1.4054804	2.6490598	down	RBL2
-0.57637405	-0.801229	-0.5707512	0.723403	0.7878828	0.5707512	0.000553146	0.000174327	-2.5375984	-1.3434638	2.5375984	down	PDXP
-0.6541214	-0.56235075	-0.5615454	0.6479697	0.5615454	0.61959314	0.000170886	7.21298E-06	-2.3011823	-1.2023753	2.3011823	down	LRTOMT
0.71996546	0.37527418	0.5577247	-0.46094847	-0.37527418	-0.56440306	0.001311926	0.000857989	2.0249178	1.0178634	2.0249178	up	IL24
-1.3168087	-0.6472788	-1.165854	0.6472788	0.8891778	0.78644705	0.00152807	0.001063652	-3.5249798	-1.817615	3.5249798	down	TRIQK
-0.70339394	-0.644001	-0.5041466	0.6239462	0.52056885	0.5041466	0.000379717	7.57322E-05	-2.2450297	-1.1667345	2.2450297	down	DDIT4
-0.79794955	-0.51716495	-0.89894056	0.6596148	0.51716495	0.609998	0.000825911	0.000392727	-2.5203269	-1.3336109	2.5203269	down	MIB1
0.6784029	0.75201416	0.72679806	-0.6784029	-0.83099174	-0.9412794	0.000297838	4.17036E-05	2.8998194	1.535963	2.8998194	up	NABP1
-0.84964895	-0.6368432	-0.6560955	0.6368432	0.8650069	0.80178595	0.000435873	0.000103336	-2.7935016	-1.4820746	2.7935016	down	AKR1B15
-0.5662484	-0.44973612	-0.55130863	0.55135536	0.4729495	0.44973564	0.000259553	2.92217E-05	-2.0191917	-1.013778	2.0191917	down	TCFL5
-1.2890964	-1.1615014	-1.0667758	1.2055941	1.0920725	1.0667753	0.00017292	7.6672E-06	-4.90393	-2.2939384	4.90393	down	AKR1B10
-0.7740469	-0.50594664	-0.57926273	0.7007446	0.50594664	0.5116596	0.000734606	0.000311338	-2.285541	-1.1925358	2.285541	down	LOC728715
-0.8543892	-0.833056	-0.34087896	0.34087896	0.47100067	0.34535456	0.004085907	0.003576689	-2.087611	-1.0618528	2.087611	down	LRPPRC
0.4599905	0.56885815	0.51368713	-0.4599905	-0.60811615	-0.6446247	0.000374531	7.36763E-05	2.1215062	1.085089	2.1215062	up	SRXN1
-0.90638876	-0.81856394	-0.81768465	0.9068804	0.8789501	0.8176851	0.000110225	1.67944E-06	-3.2838411	-1.7153844	3.2838411	down	NETO2
0.44741392	0.62028027	0.62262774	-0.70459557	-0.44741392	-0.5628295	0.000688659	0.000273435	2.1962674	1.1350536	2.1962674	up	C3AR1
-0.45828438	-0.48731136	-0.57257175	0.5462103	0.45828438	0.49866962	0.000221106	1.91313E-05	-2.0098817	-1.0071106	2.0098817	down	HMGB2
-0.8321104	-0.73932123	-0.5323491	0.8881674	0.64530134	0.53234863	0.000980448	0.000537057	-2.6205437	-1.3898661	2.6205437	down	EXTL3
0.65495586	0.6905489	0.89455223	-0.6549554	-0.8461275	-0.9906869	0.000602446	0.000210312	2.9840581	1.5772756	2.9840581	up	CCL2
-0.55363226	-0.5187311	-0.4865694	0.4865694	0.52517176	0.5680952	0.000147081	4.30066E-06	-2.0651639	-1.0462563	2.0651639	down	HMGB3
-0.49947405	-0.4698038	-0.8056116	0.4698043	0.641675	0.5130329	0.001128493	0.000681301	-2.1933467	-1.1331339	2.1933467	down	IFITM2
-1.0980473	-0.9913006	-0.9165082	0.93545437	0.9477949	0.9165087	0.000140348	3.47547E-06	-3.824324	-1.9352047	3.824324	down	MRAS
-1.3709822	-1.2688727	-1.089284	1.1473198	1.1515913	1.089284	0.000182139	9.69035E-06	-5.1781783	-2.3724446	5.1781783	down	IFITM3
-0.58108854	-0.7458105	-0.4898095	0.53353596	0.48980904	0.5767803	0.000487934	0.000134562	-2.2021987	-1.1389446	2.2021987	down	BICC1
-0.67937183	-0.5932617	-0.446414	0.45621967	0.446414	0.5353179	0.000496607	0.000139001	-2.073881	-1.0523331	2.073881	down	ABI3BP
0.5444155	0.5706997	0.61186504	-0.5444155	-0.5983405	-0.6050067	0.000111413	1.88453E-06	2.2318616	1.1582476	2.2318616	up	TROVE2
-1.0281832	-0.5473242	-0.64305854	0.6447334	0.5473242	0.79544306	0.001487421	0.001021067	-2.6427174	-1.4020221	2.6427174	down	SLC48A1
0.6640096	0.7891774	0.4258628	-0.5835395	-0.4258628	-0.5489125	0.001048669	0.000605441	2.2126698	1.1457882	2.2126698	up	DDX3Y
-0.60105085	-0.4413271	-0.6059289	0.48369122	0.44132662	0.47787237	0.000327727	5.28142E-05	-2.0237985	-1.0170656	2.0237985	down	HNRNPD
-0.7870712	-0.7415266	-0.70291233	0.9040251	0.70291233	0.714304	0.000246558	2.61905E-05	-2.8631115	-1.5175838	2.8631115	down	DNAJA1
-0.7383385	-0.50402117	-0.5688195	0.6507573	0.5076833	0.50402164	0.000543097	0.000167667	-2.231294	-1.1578805	2.231294	down	HNRNPC
-0.7799792	-0.6161971	-0.5410485	0.5947666	0.74484205	0.541049	0.00054187	0.000166895	-2.416012	-1.2726276	2.416012	down	DYRK2

-0.5544467	-0.61023474	-0.53714275	0.71184444	0.53714275	0.72682095	0.00030801	4.58576E-05	-2.3389769	-1.2258775	2.3389769	down	TMEM30A
0.9821105	0.7704382	0.9606972	-0.7704382	-0.9551029	-0.7964511	0.000292421	3.92532E-05	3.352133	1.7450794	3.352133	up	ARHGDIB
-0.548151	-0.5968666	-0.45539284	0.5137768	0.5443077	0.45539284	0.000260422	2.93899E-05	-2.053326	-1.0379627	2.053326	down	B4GALT1
-0.65137243	-0.680058	-0.4838519	0.5584812	0.5724683	0.48385143	0.000364231	6.94948E-05	-2.2089505	-1.1433611	2.2089505	down	FKTN
-1.4629741	-1.3376393	-1.3426242	1.3376393	1.3694224	1.3652816	8.01385E-05	3.36822E-07	-6.673885	-2.7385268	6.673885	down	RAB8B
-0.48188782	-0.6366005	-0.4784217	0.6100092	0.4784217	0.65905666	0.000466326	0.000119453	-2.1656487	-1.1147993	2.1656487	down	VAV3
-0.5662484	-0.44973612	-0.55130863	0.55135536	0.4729495	0.44973564	0.000259553	2.92217E-05	-2.0191917	-1.013778	2.0191917	down	DPH3P1
-0.6335602	-0.9507742	-0.76719666	0.6335602	0.90507936	0.66212463	0.000687645	0.000272546	-2.8628097	-1.5174317	2.8628097	down	EFEMP1
-0.5714526	-0.62018347	-0.6226649	0.64459515	0.57145214	0.6807451	0.000147081	4.3815E-06	-2.3571298	-1.2370312	2.3571298	down	IREB2
-0.5135689	-0.4892378	-0.5304818	0.4892378	0.5290384	0.5055933	8.01385E-05	4.25182E-07	-2.026588	-1.0190527	2.026588	down	ARMC6
-0.510128	-0.6077328	-0.47732925	0.52306557	0.5330715	0.47732925	0.000214599	1.67639E-05	-2.0603442	-1.0428854	2.0603442	down	TMEM179B
-0.85220385	-0.8196354	-0.71086884	1.0669918	0.7114372	0.7108698	0.000601345	0.000209445	-3.0822892	-1.6240022	3.0822892	down	WIPI2
-0.6133518	-0.61648464	-0.4618454	0.5452318	0.52553844	0.46184635	0.00030801	4.62639E-05	-2.1063807	-1.0747662	2.1063807	down	CYB561
-0.7477584	-0.63388824	-0.59855366	0.5985532	0.6858196	0.6610527	0.000206418	1.47703E-05	-2.476911	-1.308542	2.476911	down	FAM208A
-0.52935123	-0.51777744	-0.4917984	0.62653065	0.5133505	0.4917984	0.000214144	1.66173E-05	-2.0804114	-1.0568688	2.0804114	down	MPRIP
-0.59525585	-0.6460409	-0.5463753	0.66940784	0.6425476	0.5463753	0.000201242	1.34524E-05	-2.321946	-1.2153343	2.321946	down	CDKN1C
0.50409365	0.5558443	0.6073613	-0.5040941	-0.51412964	-0.5094509	0.000142232	3.73382E-06	2.0921571	1.0649912	2.0921571	up	ARMC8
-1.0259838	-1.0149798	-0.9224591	0.97366047	0.92245865	0.9444809	8.46713E-05	7.19433E-07	-3.822918	-1.9346743	3.822918	down	CDC42SE2
0.6033344	0.68570423	0.7437029	-0.60333395	-0.6595454	-0.8016138	0.000304358	4.4727E-05	2.5770936	1.365745	2.5770936	up	C14orf182
-0.5523281	-0.61707115	-0.62936306	0.71114826	0.5523281	0.5566578	0.000263845	3.03832E-05	-2.307449	-1.2062988	2.307449	down	PTTG1IP
0.8557267	0.47780037	0.57648134	-0.569716	-0.60718346	-0.47780085	0.001018989	0.000574885	2.27874	1.1882362	2.27874	up	HIVEP2
0.56481266	0.64432716	0.6810217	-0.60722303	-0.5648122	-0.58944845	0.000147081	4.78814E-06	2.3249748	1.2172151	2.3249748	up	HDHD1
-0.5174353	-0.6976347	-0.7484739	0.51743555	0.5892339	0.61560297	0.000397463	8.55818E-05	-2.3434036	-1.2286054	2.3434036	down	PDZD2
-0.6325712	-0.56614923	-0.59469366	0.7078104	0.6497741	0.56614923	0.000186519	1.07128E-05	-2.3604293	-1.2390493	2.3604293	down	XPO7
0.52025795	0.52356243	0.6608181	-0.5202584	-0.5587311	-0.6299095	0.000280594	3.55342E-05	2.200522	1.1378458	2.200522	up	ABL2
0.4947605	0.6379442	0.57764626	-0.4947605	-0.5427265	-0.56473064	0.000219598	1.8429E-05	2.149781	1.1041896	2.149781	up	DNAJB6
-0.6278639	-0.65713024	-0.5396819	0.54720306	0.59143066	0.53968143	0.000170886	7.27171E-06	-2.2464762	-1.1676638	2.2464762	down	LOC100653247
-0.53742695	-0.5088968	-0.5667734	0.67812634	0.5088968	0.5465441	0.000271726	3.23203E-05	-2.166783	-1.1155548	2.166783	down	PTGES3
-0.79873466	-0.8291993	-0.70821476	0.81967735	0.8280058	0.70821476	0.000174005	7.86436E-06	-2.9567568	-1.5640156	2.9567568	down	IMPA2
0.7503567	0.8362732	0.7684736	-0.7503567	-0.8636632	-0.8571162	0.000142232	3.68132E-06	3.0498674	1.6087465	3.0498674	up	KYNU
0.72998714	0.6766043	0.83857536	-0.6766043	-0.88527966	-0.8586559	0.000302233	4.34877E-05	2.9388173	1.5552356	2.9388173	up	LRRC8A
-0.9787383	-0.89574003	-0.9713464	1.0862098	0.8995528	0.89574003	0.000182139	9.70549E-06	-3.755771	-1.9091091	3.755771	down	CNRIP1
0.48260832	0.5583143	0.5218606	-0.48260784	-0.52186966	-0.52098656	0.000112738	2.21621E-06	2.0411975	1.0294157	2.0411975	up	MIR22HG

0.43047428	0.6064253	0.6197052	-0.43047428	-0.5547805	-0.54241943	0.000475867	0.000127871	2.0869937	1.0614263	2.0869937	up	DICER1
-0.93438053	-0.6104002	-0.6917205	0.751668	0.71893644	0.6104002	0.000549723	0.000172058	-2.7116454	-1.4391686	2.7116454	down	SYNGR1
-0.7383385	-0.50402117	-0.5688195	0.6507573	0.5076833	0.50402164	0.000543097	0.000167667	-2.231294	-1.1578805	2.231294	down	LOC100653343
0.5473919	0.7051053	0.59722424	-0.5482063	-0.5473914	-0.70842886	0.000362004	6.75512E-05	2.3261046	1.217916	2.3261046	up	LOC643923
0.52460575	0.46747494	0.47880745	-0.55526257	-0.5259681	-0.46747494	0.000152294	5.47542E-06	2.0090747	1.0065312	2.0090747	up	SPRY2
-0.6584792	-0.6763134	-0.61837626	0.9080963	0.6183758	0.6358814	0.000489768	0.000135597	-2.5880055	-1.3718407	2.5880055	down	CDC42
-0.6577878	-0.67487526	-0.57681465	0.72171736	0.5768151	0.5883174	0.000230162	2.18746E-05	-2.4040093	-1.2654425	2.4040093	down	TRIM5
-0.5201049	-0.4805684	-0.49053335	0.6524906	0.5844803	0.4805684	0.000267587	3.1463E-05	-2.0988252	-1.069582	2.0988252	down	CASP3
0.4425707	0.55706596	0.44660473	-0.714324	-0.44257116	-0.44621515	0.000920179	0.00047802	2.0229359	1.0164506	2.0229359	up	LBH
-0.5900755	-0.61519575	-0.46582794	0.59322834	0.46582794	0.5357704	0.000322607	5.09984E-05	-2.1267374	-1.0886419	2.1267374	down	RTF1
-0.6807914	-0.5135994	-0.5058794	0.53588104	0.5459256	0.5058794	0.000311407	4.71957E-05	-2.1375904	-1.0959854	2.1375904	down	SNTB2
-0.92984104	-0.8962946	-0.7572489	0.7969465	0.8014326	0.7572489	0.000170886	7.2416E-06	-3.1303794	-1.6463375	3.1303794	down	IMPDH1
-0.5490675	-0.50218296	-0.5048437	0.50218344	0.5976219	0.55422115	0.000147081	4.48037E-06	-2.0994918	-1.0700402	2.0994918	down	METTL9
0.43929482	0.5396733	0.55078363	-0.6247959	-0.5602679	-0.43929434	0.000396691	8.49974E-05	2.072497	1.0513699	2.072497	up	SGK1
-1.2517715	-0.7429385	-0.43450546	0.6670842	0.43450546	0.4539442	0.006519048	0.006003876	-2.5109785	-1.3282497	2.5109785	down	SGK2
0.5907073	0.6909003	0.47332954	-0.47332954	-0.5749574	-0.52469444	0.000404115	8.94659E-05	2.1574185	1.1093061	2.1574185	up	PTGER4
-0.67286396	-0.44424152	-0.5316448	0.6150007	0.44424152	0.4761448	0.000633379	0.000233955	-2.0869257	-1.0613792	2.0869257	down	MIR196B
-0.84357214	-0.5834546	-0.49318218	0.69438744	0.6224313	0.49318218	0.000936972	0.000496135	-2.3675637	-1.2434033	2.3675637	down	MBNL2
-0.73473644	-0.6524682	-0.56893826	0.5755005	0.56893826	0.5956583	0.00020556	1.42974E-05	-2.349054	-1.23208	2.349054	down	TMEM248
0.49979448	0.58709955	0.49686432	-0.49686432	-0.55202246	-0.8513818	0.000966356	0.000523846	2.2366545	1.1613424	2.2366545	up	ARL6
-1.3451934	-1.5727401	-0.8487754	0.8487749	1.0060511	1.013463	0.00099702	0.000554345	-4.632098	-2.2116659	4.632098	down	FCAMR
-0.5495281	-0.6036682	-0.58846855	0.762867	0.5495281	0.5981703	0.000327213	5.24798E-05	-2.325289	-1.2174101	2.325289	down	LOC100653335
-0.5347576	-0.50588703	-0.49641132	0.5323353	0.49641037	0.5414009	8.12178E-05	5.38522E-07	-2.0501566	-1.0357342	2.0501566	down	PURA
-0.52290773	-0.5071664	-0.54553366	0.69595766	0.5813365	0.5071664	0.000283076	3.69646E-05	-2.173504	-1.1200228	2.173504	down	SDC1
0.38287163	0.53836536	0.6390686	-0.38287163	-0.48371506	-0.60619354	0.000951278	0.000510009	2.0153475	1.0110285	2.0153475	up	C15orf52
-0.71927786	-0.5118327	-0.80961895	0.8425021	0.6177125	0.5118332	0.000968136	0.000525114	-2.5272923	-1.3375925	2.5272923	down	CLDN2
-1.0566998	-0.8403897	-0.66970253	0.7580285	0.8344555	0.669703	0.000570161	0.000188636	-3.0517983	-1.6096597	3.0517983	down	PLLP
0.6260648	0.4459343	0.6759968	-0.4459343	-0.46010685	-0.80093527	0.001514854	0.001049533	2.2216897	1.1516573	2.2216897	up	LOC642424
-0.6224866	-0.48331642	-0.49420547	0.65576553	0.48331642	0.5813818	0.000386642	7.86888E-05	-2.1537101	-1.1068242	2.1537101	down	GALNT7
0.4600978	0.48081303	0.622632	-0.49765015	-0.49057007	-0.46009827	0.000302233	4.35968E-05	2.0054884	1.0039537	2.0054884	up	SNX16
-0.9376707	-0.954586	-0.88238907	0.9717026	0.97991085	0.88238907	9.19451E-05	1.03051E-06	-3.6541846	-1.8695495	3.6541846	down	LOC100505813
-0.6384678	-0.5784273	-0.6093035	0.64864254	0.5784273	0.5801697	0.00011271	1.93696E-06	-2.3152149	-1.2111461	2.3152149	down	ADH5
0.47032356	0.45781898	0.5049839	-0.45781898	-0.53383064	-0.6313	0.000295822	4.05037E-05	2.0260813	1.018692	2.0260813	up	TYW3

-0.5466423	-0.49906445	-0.51288223	0.628479	0.6962395	0.49906445	0.00030801	4.58118E-05	-2.1847334	-1.1274573	2.1847334	down	KITLG
-0.88787794	-0.5015497	-0.42596197	0.5122204	0.4259615	0.54649496	0.002204677	0.001726151	-2.14358	-1.1000222	2.14358	down	SEC62
-0.7027693	-0.44237185	-0.53066254	0.6862745	0.53375673	0.44237185	0.000877699	0.000439443	-2.162553	-1.1127355	2.162553	down	SEC63
-0.6895895	-0.54531574	-0.5457325	0.7222042	0.54531574	0.55991936	0.000396691	8.51821E-05	-2.301688	-1.2026923	2.301688	down	TSPYL1
-0.85599804	-0.7768507	-0.8131995	0.90147877	0.9351721	0.7768507	0.000157586	5.94913E-06	-3.2187858	-1.6865165	3.2187858	down	TMED4
-0.63259554	-0.5850196	-0.66394997	0.73037815	0.5850191	0.60644245	0.000207097	1.52852E-05	-2.4079437	-1.2678016	2.4079437	down	FAM8A1
-0.9620886	-0.82053804	-0.34703016	0.36357975	0.34703016	0.4247136	0.004885417	0.004379687	-2.126273	-1.0883268	2.126273	down	C1QTNF3
0.52213526	0.80118895	0.6127033	-0.5221355	-0.55546093	-0.6987529	0.000628346	0.000230493	2.3578289	1.237459	2.3578289	up	DNER
0.41262484	0.60144806	0.5460105	-0.53261995	-0.53160286	-0.41262484	0.000470819	0.000123799	2.0171387	1.0123104	2.0171387	up	LACC1
-0.5873532	-0.56782913	-0.46741867	0.6485157	0.5295801	0.46741867	0.000374531	7.3515E-05	-2.1278138	-1.0893719	2.1278138	down	TOR1B
-0.4883089	-0.6336665	-0.5110965	0.52514315	0.48830843	0.51691484	0.000231032	2.23906E-05	-2.0769684	-1.0544794	2.0769684	down	NEDD4L
-0.79732895	-0.6783056	-0.6276636	0.8530073	0.72536325	0.62766314	0.000351896	6.34857E-05	-2.7065294	-1.436444	2.7065294	down	RNASE4
0.49390578	0.40463948	0.54821754	-0.6076424	-0.6027334	-0.40463948	0.000596857	0.000205871	2.0287523	1.0205927	2.0287523	up	NF1
-1.2049699	-0.8878293	-0.62543106	0.62543106	0.79860306	0.8706832	0.001244449	0.000792682	-3.1843138	-1.6709825	3.1843138	down	GRSF1
-0.6891246	-0.71489716	-0.5548992	0.65896416	0.5548992	0.55966663	0.000271178	3.21451E-05	-2.3687901	-1.2441504	2.3687901	down	DBC1
-0.98152065	-0.79661894	-1.1449165	0.93728256	0.7966194	0.9232321	0.000371532	7.19742E-05	-3.6302361	-1.8600634	3.6302361	down	POLR3GL
-0.4726138	-0.58413076	-0.5819874	0.4726138	0.53071976	0.55587053	0.000217781	1.77113E-05	-2.0935895	-1.0659786	2.0935895	down	PROSER1
0.5681329	0.53664255	0.41403055	-0.5686288	-0.41403055	-0.5542731	0.000460654	0.000116587	2.0259233	1.0185795	2.0259233	up	CREB5
-0.7502675	-0.5618291	-0.5279808	0.68429947	0.5279808	0.7072573	0.000513274	0.00014883	-2.383704	-1.2532051	2.383704	down	TSPAN15
-0.5744548	-0.65121794	-0.59314346	0.64194965	0.6722832	0.5744548	0.000147081	4.7993E-06	-2.3551755	-1.2358346	2.3551755	down	SMC2
-0.8942399	-0.6755724	-0.615736	0.615736	0.6835885	0.6586337	0.000408834	9.17249E-05	-2.6047933	-1.3811688	2.6047933	down	IDNK
-0.65539885	-0.6637373	-0.7195897	0.6553993	0.6872606	0.69943047	8.27669E-05	5.85091E-07	-2.5673358	-1.360272	2.5673358	down	PEX11B
-0.57415485	-0.7563677	-0.6064787	0.5809269	0.57415485	0.6847105	0.00030801	4.60295E-05	-2.3931837	-1.2589312	2.3931837	down	RNF114
-0.5788498	-0.4104786	-0.6588812	0.4104786	0.5583582	0.7526221	0.001254811	0.000802468	-2.1783304	-1.1232228	2.1783304	down	ICK
-0.6453023	-0.49524212	-0.4459653	0.6502447	0.44596577	0.5437808	0.000608725	0.000215484	-2.1074526	-1.0755002	2.1074526	down	CCDC113
-0.6264758	-0.7042737	-0.47479343	0.5206075	0.47479343	0.64441013	0.000543287	0.000168102	-2.216758	-1.1484513	2.216758	down	SMPD1
0.4922223	0.52921677	0.6504512	-0.59533024	-0.4922223	-0.49744606	0.000316346	4.92128E-05	2.1223016	1.0856297	2.1223016	up	SH3BGRL2
-0.57211256	-0.7352843	-0.50333357	0.8104615	0.5721111	0.50333357	0.000878486	0.000440432	-2.3492696	-1.2322123	2.3492696	down	GDF15
-0.6542654	-0.45697784	-0.67036486	0.6469736	0.46780872	0.45697784	0.000676202	0.000265631	-2.1701422	-1.1177895	2.1701422	down	SNX30
-0.5367551	-0.53819656	-0.687315	0.6699767	0.61815786	0.5367551	0.00030801	4.60569E-05	-2.2905893	-1.1957188	2.2905893	down	C1orf213
-0.56202316	-0.53141785	-0.49538326	0.58854294	0.5309372	0.49538326	0.000153978	5.62362E-06	-2.0963736	-1.0678959	2.0963736	down	HMGN2
0.61678123	0.6466584	0.7068558	-0.61678123	-0.75989485	-0.7797265	0.000219598	1.84375E-05	2.5946968	1.375566	2.5946968	up	CADM1
0.86473894	0.7804017	0.9823251	-0.7804017	-0.8151102	-0.8590827	0.000187426	1.12456E-05	3.2355704	1.69402	3.2355704	up	PDLIM7

0.42481136	0.5651283	0.83042526	-0.42481136	-0.57051706	-0.63114977	0.001474959	0.001009397	2.217521	1.1489477	2.217521	up	UHRF1BP1L
0.43846893	0.43799305	0.5085077	-0.43799305	-0.6086559	-0.7929487	0.000957612	0.000515866	2.1065116	1.0748558	2.1065116	up	PDLIM5
-0.44817924	-0.5565162	-0.5065465	0.46516705	0.44817924	0.584815	0.000308959	4.6532E-05	-2.00435	-1.0031344	2.00435	down	RAB3GAP1
0.57772446	0.63279915	0.74743176	-0.577724	-0.7486248	-0.9883003	0.000818728	0.000384326	2.6836593	1.4242015	2.6836593	up	EDN1
-1.0401273	-0.5999718	-0.7637329	0.67906284	0.67906284	0.59997225	0.000808368	0.000376181	-2.7396216	-1.4539766	2.7396216	down	HS2ST1
0.58779144	0.6397915	0.8182936	-0.58779144	-0.6247597	-0.76309586	0.000444469	0.000107599	2.5324044	1.3405079	2.5324044	up	TPK1
-0.96934843	-0.54441357	-0.71935177	0.55823374	0.63285875	0.54441357	0.00091118	0.000470016	-2.5016384	-1.3228732	2.5016384	down	AGPS
-0.76642656	-0.52238655	-0.6933036	0.6260853	0.52548647	0.5223861	0.000445257	0.00010791	-2.3273554	-1.2186916	2.3273554	down	RAB28
-0.75362206	-0.7163701	-0.6171956	0.8150654	0.9183526	0.6171956	0.000446788	0.000109067	-2.7880707	-1.4792671	2.7880707	down	C2orf68
-0.6219864	-0.70801115	-0.5749712	0.65370464	0.57497025	0.7451534	0.000272566	3.27347E-05	-2.4502556	-1.2929323	2.4502556	down	GPT2
0.56174564	0.48824692	0.8708668	-0.48824692	-0.62587357	-0.6277094	0.00107993	0.000634806	2.3309152	1.2208965	2.3309152	up	RPUSD4
-0.7122102	-0.67964125	-0.59280634	0.65876484	0.61087894	0.5928068	0.000159125	6.05205E-06	-2.4323814	-1.2823695	2.4323814	down	HKDC1
0.6091862	0.6270294	0.47749996	-0.47749949	-0.59569025	-0.6501179	0.000386898	7.89435E-05	2.2124953	1.1456745	2.2124953	up	EFNB2
-0.6865401	-0.59824514	-0.498703	0.7941036	0.60125923	0.49870253	0.000690513	0.000276766	-2.338934	-1.2258512	2.338934	down	PIM1
-1.2673192	-1.1649084	-0.91886806	1.1341028	0.9188676	0.92772865	0.000372175	7.22191E-05	-4.3187037	-2.1105983	4.3187037	down	VTI1B
0.47739077	0.5029416	0.47239542	-0.79172325	-0.9763012	-0.47239494	0.001591099	0.001126341	2.347376	1.2310491	2.347376	up	PIM2
0.66956663	0.7206912	0.5073457	-0.5566411	-0.50734615	-0.5285821	0.000347184	6.03857E-05	2.2398326	1.1633909	2.2398326	up	PRDM8
0.54666376	0.42977715	0.46294498	-0.7306309	-0.42977715	-0.7961569	0.001107898	0.000660841	2.1915987	1.1319836	2.1915987	up	ACAP2
-0.9073086	-0.39253664	-0.6870675	0.5827522	0.5928483	0.39253712	0.002372176	0.001889715	-2.2736604	-1.1850168	2.2736604	down	HHLA3
-0.6770344	-0.5530281	-0.54983234	0.6353569	0.55798626	0.54983234	0.000221175	1.94249E-05	-2.2569222	-1.1743567	2.2569222	down	CDCA7L
-0.5495281	-0.6036682	-0.58846855	0.762867	0.5495281	0.5981703	0.000327213	5.24798E-05	-2.325289	-1.2174101	2.325289	down	LOC100652828
-0.6224723	-0.5719552	-0.48012543	0.49966526	0.48012543	0.5111084	0.000210321	1.5822E-05	-2.0779352	-1.0551507	2.0779352	down	EXT2
-0.624733	-0.7146969	-0.6309228	0.68882275	0.624733	0.63247204	0.000133779	3.21008E-06	-2.4716256	-1.3054602	2.4716256	down	NEK6
-0.6818166	-0.6364207	-0.466218	0.5661373	0.56285334	0.46621752	0.000438273	0.000104853	-2.1833668	-1.1265545	2.1833668	down	COASY
-0.58409405	-0.594244	-0.52894783	0.52894783	0.74323654	0.65787697	0.000318882	5.01408E-05	-2.3173068	-1.2124491	2.3173068	down	CRELD2
-0.56483364	-0.38377666	-0.48139763	0.6022868	0.38377714	0.61979103	0.000824249	0.000391602	-2.0166411	-1.0119543	2.0166411	down	HOXA13
-0.64237976	-0.6037054	-0.50797176	0.61227417	0.5504036	0.50797176	0.000230162	2.20271E-05	-2.206208	-1.1415688	2.206208	down	LMNB2
0.90676165	0.8663459	1.118412	-0.8871503	-0.8663459	-0.89441586	0.000221175	1.94771E-05	3.5962098	1.8464772	3.5962098	up	SLC2A14
-1.0336685	-0.73015404	-0.56838846	0.57032824	0.58448505	0.56838894	0.001025752	0.000583056	-2.5523114	-1.3518044	2.5523114	down	PFKFB2
-0.6112447	-0.5666933	-0.44283485	0.4852152	0.44283485	0.4921217	0.000301247	4.30062E-05	-2.0190103	-1.0136483	2.0190103	down	SRSF11
0.99100494	0.9336672	1.0261002	-0.9436202	-0.9336672	-0.9851227	8.01385E-05	4.03055E-07	3.831017	1.9377275	3.831017	up	AKAP12
0.4250164	0.5561023	0.44051886	-0.52949715	-0.4250164	-0.70651674	0.000795921	0.000365435	2.0385678	1.027556	2.0385678	up	STK17B
-0.6171694	-0.5502577	-0.5564985	0.67332363	0.5502577	0.5653639	0.000191056	1.21072E-05	-2.25161	-1.170957	2.25161	down	ASAP1

-1.0401273	-0.5999718	-0.7637329	0.67906284	0.67906284	0.59997225	0.000808368	0.000376181	-2.7396216	-1.4539766	2.7396216	down	LOC339524
-0.49979353	-0.6355047	-0.5070238	0.65832376	0.6172786	0.49979353	0.000349349	6.14947E-05	-2.2026486	-1.1392393	2.2026486	down	ANGEL2
-0.58823586	-0.60774994	-0.47449875	0.54538536	0.52327156	0.47449875	0.000227402	2.10873E-05	-2.1012	-1.0712135	2.1012	down	TIPRL
-0.82034063	-0.7533574	-0.6504569	0.79336977	0.7131901	0.6504564	0.000231032	2.24408E-05	-2.751828	-1.4603903	2.751828	down	FAM102A
-0.59001875	-0.50773716	-0.4281845	0.6380892	0.4550352	0.4281845	0.000628581	0.000230678	-2.0219533	-1.0157497	2.0219533	down	LOC100653313
-0.5726242	-0.5406637	-0.48043537	0.6011305	0.48043537	0.4832163	0.000246345	2.57566E-05	-2.0746028	-1.0528352	2.0746028	down	NGRN
-0.4865818	-0.51863766	-0.5361242	0.4921198	0.5301075	0.4865818	9.14597E-05	8.8519E-07	-2.0233104	-1.0167177	2.0233104	down	TMED10
-0.6715188	-0.4501462	-0.5081668	0.5112343	0.4521141	0.4501462	0.000473804	0.000126246	-2.0201216	-1.0144421	2.0201216	down	PBRM1
0.46235132	0.64138126	0.7264228	-0.4623518	-0.6864271	-0.59549284	0.000722886	0.000300576	2.2838624	1.1914757	2.2838624	up	CDA
-0.7435665	-0.85803413	-0.5505209	0.64247656	0.60693216	0.5505209	0.000512398	0.000148156	-2.49208	-1.3173504	2.49208	down	KIAA0247
-0.6230159	-0.7420311	-0.7341938	0.72386503	0.6230159	0.6843357	0.000179882	9.05074E-06	-2.5969517	-1.3768191	2.5969517	down	GCNT1
-0.67331696	-0.8194227	-0.40427876	0.5476179	0.5326214	0.40427876	0.001432157	0.000968208	-2.1843119	-1.1271788	2.1843119	down	PLAT
-1.0014634	-0.7579441	-0.83823776	0.77211475	0.7579441	0.769464	0.000230162	2.21408E-05	-3.1002603	-1.6323893	3.1002603	down	SUB1
-0.48247862	-0.5024667	-0.43065643	0.6996994	0.51821136	0.43065643	0.000642265	0.000239659	-2.0298731	-1.0213896	2.0298731	down	SCD
-0.8261924	-1.1617737	-0.97823286	1.0636883	1.2739873	0.8261919	0.000623091	0.000225717	-4.122031	-2.0433555	4.122031	down	NDFIP2
0.6327467	0.67905426	0.73749495	-0.7374668	-0.69686556	-0.6327472	0.000154837	5.74091E-06	2.5885158	1.3721251	2.5885158	up	AREGB
-0.53327084	-0.648551	-0.5873928	0.53327084	0.5720062	0.68937683	0.000272196	3.25236E-05	-2.2782974	-1.1879561	2.2782974	down	SMAD2
-0.5852108	-0.86439466	-0.50156355	0.6414337	0.54651594	0.501564	0.0009329	0.000490753	-2.3190932	-1.2135608	2.3190932	down	TKT
0.5764327	0.41135168	0.6042552	-0.71629333	-0.52959824	-0.41135168	0.0009854	0.000541103	2.1185753	1.0830944	2.1185753	up	SLAMF7
0.807672	0.8936963	0.8821454	-1.0031934	-0.807672	-0.94478273	0.000182753	9.89193E-06	3.4335966	1.7797205	3.4335966	up	HOMER2
0.6843233	0.5817585	0.9137974	-0.6750021	-0.5817585	-0.72712946	0.000593736	0.000203589	2.6170166	1.387923	2.6170166	up	PXDNL
-0.819664	-0.71950054	-0.82453156	0.839736	0.71950054	0.7234049	0.00017292	7.69833E-06	-2.9256947	-1.5487792	2.9256947	down	NCKAP1
-0.9151635	-1.2244186	-0.9802871	1.056097	0.915164	1.0520964	0.000296045	0.000040621	-4.1345844	-2.0477424	4.1345844	down	HN1L
-0.59524155	-0.5305786	-0.49163437	0.56296825	0.5306368	0.49163437	0.00017581	8.20765E-06	-2.0958924	-1.0675646	2.0958924	down	HYOU1
-0.5246353	-0.4239092	-0.4165616	0.64669704	0.60088634	0.4165616	0.000602507	0.000210592	-2.0135627	-1.0097504	2.0135627	down	TULP4
0.54417706	0.48745966	0.90899086	-0.50298786	-0.48745966	-0.5024233	0.001443511	0.000978618	2.210694	1.1444994	2.210694	up	ETS1
-0.78274393	-0.5338614	-0.5635843	0.53386116	0.6641412	0.6924443	0.000544414	0.000169329	-2.3897817	-1.2568789	2.3897817	down	SFRP4
-0.98737717	-1.226583	-0.646575	0.68691874	0.64657545	0.73684406	0.001088557	0.000644686	-3.1244984	-1.6436245	3.1244984	down	C9orf40
-0.9017029	-0.68078756	-0.5447173	0.6552634	0.5447173	0.60031796	0.000688659	0.00027353	-2.4779873	-1.3091688	2.4779873	down	TCF19
-0.77643204	-0.7293539	-0.6666355	0.7067585	0.6963949	0.6666355	0.000112738	1.99763E-06	-2.664879	-1.4140701	2.664879	down	QPRT
0.46360016	0.44287586	0.4309373	-0.4309373	-0.7317071	-1.0180397	0.002792437	0.002303855	2.2543306	1.1726991	2.2543306	up	C9orf41
-0.966012	-0.9254637	-0.93121433	1.3586006	1.1492338	0.9254637	0.000383347	7.73267E-05	-4.2437196	-2.0853293	4.2437196	down	PDZK1
0.40643883	0.4837742	0.58308697	-0.50925636	-0.40643883	-0.62365675	0.000646495	0.000242483	2.0058548	1.0042173	2.0058548	up	ALG13

-0.57512045	-0.5987625	-0.44556856	0.6579294	0.5782509	0.44556808	0.000512374	0.000147449	-2.1441412	-1.1004	2.1441412	down	PLAU
-0.95147943	-0.8074393	-0.8760433	0.8074393	0.84003115	0.84226465	0.000116193	2.41943E-06	-3.2676022	-1.7082324	3.2676022	down	KCNJ16
0.43611526	0.50540733	0.7295909	-0.43611526	-0.56760645	-0.6745405	0.001017619	0.000573661	2.1681411	1.1164587	2.1681411	up	NRP2
-0.68147755	-0.5365248	-0.60119724	0.68315697	0.5365248	0.5379982	0.000316446	4.95089E-05	-2.2851567	-1.1922932	2.2851567	down	LOC100093631
-0.87549543	-0.6058159	-0.79098415	0.6058154	0.67338276	0.6688318	0.000364231	6.9596E-05	-2.6514382	-1.4067751	2.6514382	down	TM7SF3
0.6910591	0.7517147	0.62934685	-0.7242074	-0.73296785	-0.62934685	0.000179882	8.88998E-06	2.6139188	1.3862143	2.6139188	up	SLC16A12
0.46940517	0.55382156	0.5515795	-0.46940517	-0.618031	-0.6672125	0.000371185	7.16753E-05	2.1581848	1.1098183	2.1581848	up	FERMT2
-0.74750614	-0.91333294	-0.6174593	0.633883	0.74761677	0.6174593	0.000456876	0.000114358	-2.6865458	-1.4257524	2.6865458	down	DNAJC10
0.48703432	0.44658232	0.6425414	-0.9301729	-0.4465828	-0.622694	0.001952313	0.001479689	2.2844853	1.1918693	2.2844853	up	GJA1
0.49972582	0.4681859	0.641304	-0.4938717	-0.5112629	-0.4681859	0.000311415	4.7239E-05	2.0385058	1.0275121	2.0385058	up	CPEB1
0.6291475	0.5811691	0.73636913	-0.5811691	-0.6755791	-0.68221664	0.000227402	2.11518E-05	2.4541388	1.2952168	2.4541388	up	EFHD2
-0.5584831	-0.4512453	-0.71767616	0.6070781	0.64814186	0.4512453	0.00072747	0.000306177	-2.2108839	-1.1446233	2.2108839	down	EFHD1
0.56654835	0.7583132	0.76785994	-0.6078706	-0.5964508	-0.56654835	0.000299203	4.24536E-05	2.4416623	1.2878637	2.4416623	up	VEPH1
-0.58941245	-0.37533736	-0.46464634	0.37533736	0.7377517	0.58608556	0.001496312	0.001029803	-2.0603037	-1.0428569	2.0603037	down	AGPAT5
-0.58217573	-0.5437784	-0.37462902	0.7548804	0.6697173	0.37462902	0.00158857	0.001122747	-2.1434526	-1.0999366	2.1434526	down	SAA2
-0.6972804	-0.7651248	-0.98844385	0.7918372	0.6972804	0.7698598	0.000367161	7.06003E-05	-2.968928	-1.5699421	2.968928	down	DLEU2L
-0.43231916	-0.7280283	-0.6393585	0.43231916	0.4606943	0.57193613	0.00079604	0.000365668	-2.1261132	-1.0882185	2.1261132	down	CCNY
-0.68621635	-0.57141876	-0.6142349	0.57141876	0.6144037	0.59887695	0.000147081	4.42702E-06	-2.3276217	-1.2188566	2.3276217	down	TGFA
0.572145	0.71223354	0.5779815	-0.57214546	-0.5854616	-0.6395159	0.000214867	1.6987E-05	2.3291888	1.2198277	2.3291888	up	RAB6B
-0.84664917	-0.50582457	-0.84664917	0.5686698	0.50582457	0.63199186	0.000835273	0.000400464	-2.465482	-1.3018698	2.465482	down	NR2F2
-0.55512524	-0.55338573	-0.5958395	0.5541105	0.55338573	0.5567913	8.01385E-05	1.41112E-07	-2.1778119	-1.1228794	2.1778119	down	TOP2A
0.69962215	0.75999355	0.77276134	-0.7544031	-0.69962215	-0.82612514	0.000146303	3.99088E-06	2.8366256	1.5041758	2.8366256	up	NT5E
-0.5784817	-0.63081837	-0.6287422	0.75515556	0.5784817	0.60481834	0.000246345	2.59881E-05	-2.3930202	-1.2588326	2.3930202	down	C12orf23
-0.71441174	-0.72191286	-0.72700214	0.8159132	0.7234545	0.71441174	0.000110002	1.44387E-06	-2.774771	-1.4723687	2.774771	down	LPGAT1
-0.58426046	-0.7452383	-0.69401836	0.75195885	0.661685	0.58426094	0.000290696	3.87065E-05	-2.5323448	-1.3404739	2.5323448	down	POLR1D
-0.3784361	-0.65031624	-0.7024336	0.5368328	0.62598896	0.3784361	0.001374694	0.00091578	-2.1299427	-1.0908146	2.1299427	down	RAB4B
-0.6564226	-0.5617137	-0.43863392	0.56782484	0.4386344	0.5118427	0.000487025	0.000133804	-2.082559	-1.0583575	2.082559	down	FAM76B
-0.7070873	-0.65580654	-0.7131562	0.73722315	0.76216555	0.65580654	0.000125862	2.80045E-06	-2.6581361	-1.410415	2.6581361	down	VEZT
-0.75457	-0.539824	-0.6827011	0.7364435	0.53982353	0.61483955	0.000450466	0.000111306	-2.444265	-1.2894006	2.444265	down	SIGMAR1
0.4789195	0.47208834	0.5856886	-0.47208834	-0.54182005	-0.7348623	0.000625164	0.000226886	2.1363614	1.0951557	2.1363614	up	LOC100653168
0.54326725	0.51902866	0.51949215	-0.56322384	-0.51902866	-0.59220886	9.77684E-05	1.15099E-06	2.121988	1.0854166	2.121988	up	ATP6V1C1
-0.57431793	-0.57679987	-0.462214	0.46940613	0.46221352	0.5379505	0.000229001	2.14747E-05	-2.038678	-1.0276339	2.038678	down	HNRPDL
-1.2014656	-0.8182297	-1.012218	0.95361614	0.83051205	0.8182297	0.000412209	9.34861E-05	-3.6758819	-1.8780904	3.6758819	down	NUS1

0.48348808	0.4815607	0.64053345	-0.4815607	-0.5074291	-0.64521027	0.000469845	0.000122678	2.1139297	1.0799274	2.1139297	up	ADM
-0.5684786	-0.4073825	-0.6859293	0.4073825	0.5525818	0.4432559	0.000802278	0.000370742	-2.030268	-1.0216701	2.030268	down	DNAJC22
-0.68147755	-0.5365248	-0.60119724	0.68315697	0.5365248	0.5379982	0.000316446	4.95089E-05	-2.2851567	-1.1922932	2.2851567	down	GTF2I
-0.71953917	-0.6842694	-0.53821373	0.8135452	0.628459	0.53821325	0.000563504	0.000184165	-2.474974	-1.3074133	2.474974	down	SEMA4F
-0.63126993	-0.57191944	-0.4527774	0.61696863	0.5992508	0.4527769	0.000458123	0.000115166	-2.1559458	-1.108321	2.1559458	down	C14orf133
-0.51391697	-0.5599241	-0.5878315	0.5884447	0.596179	0.51391697	0.000148395	5.03026E-06	-2.173577	-1.1200712	2.173577	down	TOMM22
0.5169983	0.47250462	0.53550625	-0.47250462	-0.5225916	-0.60428715	0.000214599	1.67883E-05	2.0583155	1.0414641	2.0583155	up	GADD45A
0.6029768	0.5656309	0.62980175	-0.59316444	-0.6114168	-0.5656309	9.02292E-05	8.18655E-07	2.280801	1.1895406	2.280801	up	MYO5A
-1.0457044	-0.7954879	-0.7103052	0.7103052	0.7495303	0.73489666	0.000422924	9.81567E-05	-2.9940047	-1.5820765	2.9940047	down	PPP6C
-0.7613945	-0.6547518	-0.7202401	0.7933912	0.65475273	0.7166815	0.000181404	9.31509E-06	-2.701456	-1.4337373	2.701456	down	FUT8
-1.1266994	-1.4086533	-1.1033015	1.1388063	1.1230164	1.103302	0.000221003	1.89059E-05	-5.0440865	-2.334593	5.0440865	down	FAM98B
0.53217506	0.42192698	0.43748045	-0.42192698	-0.8107891	-0.4984908	0.001562466	0.00109584	2.0575533	1.0409298	2.0575533	up	ZBTB10
0.52765465	0.6080966	0.59189415	-0.9157486	-0.52765465	-0.7127719	0.000780117	0.000351516	2.4531014	1.2946068	2.4531014	up	CXCL3
-0.83187103	-0.8943863	-0.62849665	0.74550295	0.63099766	0.62849665	0.000393354	8.25564E-05	-2.7382429	-1.4532504	2.7382429	down	ATG13
0.69973564	0.77599907	0.56956387	-0.5695634	-0.8190727	-0.6518488	0.000493673	0.000137413	2.5702841	1.3619279	2.5702841	up	CXCL2
-0.71648645	-0.6087799	-0.5288849	0.52888536	0.55774546	0.5468359	0.00026119	2.96181E-05	-2.2385108	-1.1625392	2.2385108	down	NEO1
-0.9248657	-0.8422923	-0.7352834	0.868371	0.8073454	0.7352829	0.000214144	1.66331E-05	-3.1119385	-1.6378136	3.1119385	down	EDEM1
0.48260832	0.5583143	0.5218606	-0.48260784	-0.52186966	-0.52098656	0.000112738	2.21621E-06	2.0411975	1.0294157	2.0411975	up	MIR22
0.5765295	0.5524998	0.6603136	-0.5524998	-0.6922083	-0.6515255	0.000225218	2.02375E-05	2.3432739	1.2285255	2.3432739	up	SEC14L1
0.4579878	0.6048589	0.6334448	-0.50716686	-0.5987735	-0.4579878	0.000406636	9.08466E-05	2.1239352	1.0867398	2.1239352	up	PHIP
0.4931469	0.4520979	0.6621771	-0.4520979	-0.47486305	-0.5287714	0.000459148	0.000115874	2.0293975	1.0210514	2.0293975	up	C14orf149
-0.8451953	-0.5741992	-0.71409893	0.5741992	0.6902399	0.5744376	0.000449044	0.000109982	-2.503807	-1.3241234	2.503807	down	FAM117B
-0.59001875	-0.50773716	-0.4281845	0.6380892	0.4550352	0.4281845	0.000628581	0.000230678	-2.0219533	-1.0157497	2.0219533	down	LOC100652751
-0.3784361	-0.65031624	-0.7024336	0.5368328	0.62598896	0.3784361	0.001374694	0.00091578	-2.1299427	-1.0908146	2.1299427	down	MIA-RAB4B
-0.63674927	-0.5532203	-0.43025732	0.5197649	0.4302578	0.4454012	0.000445985	0.000108639	-2.007245	-1.0052168	2.007245	down	MORC4
0.5251708	0.47262812	0.47298622	-0.7772732	-0.8175273	-0.4726286	0.000870466	0.000432937	2.2648332	1.1794047	2.2648332	up	SPATA4
-0.61338043	-0.71995115	-0.5502615	0.65087414	0.5738077	0.5502615	0.000264029	3.04402E-05	-2.3286798	-1.2195122	2.3286798	down	FAM127B
0.5473919	0.7051053	0.59722424	-0.5482063	-0.5473914	-0.70842886	0.000362004	6.75512E-05	2.3261046	1.217916	2.3261046	up	ELMOD1
0.5557394	0.48038483	0.75033	-0.5238209	-0.6529956	-0.48038483	0.000690513	0.000276679	2.2158883	1.1478851	2.2158883	up	POLR3G
-0.5536752	-0.62269497	-0.4878192	0.65832424	0.53716564	0.48781967	0.000350717	6.31097E-05	-2.167201	-1.1158329	2.167201	down	BIRC5
-0.6192646	-0.5342808	-0.52129173	0.52129173	0.6079712	0.6002245	0.00018513	1.04965E-05	-2.195843	-1.1347749	2.195843	down	CSNK2A1P
-0.86097145	-0.52534485	-0.66346264	0.6812048	0.52534485	0.5629358	0.000718374	0.00029769	-2.4167836	-1.2730882	2.4167836	down	STAT1
-1.8530979	-1.6530285	-1.6914253	1.8036022	1.8050966	1.6530294	0.000110225	1.60734E-06	-11.207766	-3.4864268	11.207766	down	SOD1

-0.5068426	-0.41480875	-0.49867916	0.74270964	0.48633766	0.41480875	0.001041547	0.00059815	-2.0298815	-1.0213954	2.0298815	down	ATMIN
0.58877707	0.5962014	0.67136526	-0.58877707	-0.64002275	-0.6663437	0.000141534	3.60059E-06	2.3792317	1.2504958	2.3792317	up	ITPR1
0.5565281	0.5044031	0.60819054	-0.5947132	-0.5044031	-0.5522928	0.000182753	9.87146E-06	2.1537392	1.1068436	2.1537392	up	MSRB3
-0.5024066	-0.5884676	-0.534266	0.5024061	0.54784584	0.50267315	0.00014052	3.49874E-06	-2.0839999	-1.0593551	2.0839999	down	STAT2
0.5407586	0.41641855	0.45971107	-0.41641903	-0.70832396	-0.48488235	0.000889432	0.00045197	2.0122895	1.0088378	2.0122895	up	SPANXB2
0.63481617	0.70066214	0.76646423	-0.63481617	-0.7773018	-0.7737789	0.000221003	1.88837E-05	2.6931224	1.4292798	2.6931224	up	FAM47E
0.5407586	0.41641855	0.45971107	-0.41641903	-0.70832396	-0.48488235	0.000889432	0.00045197	2.0122895	1.0088378	2.0122895	up	SPANXB1
-0.7874708	-0.5115466	-0.53372	0.66969633	0.5115466	0.7822828	0.000870466	0.000433082	-2.4039738	-1.2654212	2.4039738	down	PAPOLA
0.4172325	0.522779	0.7660532	-0.64980483	-0.45038366	-0.41723275	0.00151166	0.00104583	2.1059852	1.0744953	2.1059852	up	ABCC9
-0.6979866	-0.7568326	-0.84026957	0.6979866	0.7523651	0.7130213	0.000147081	4.72916E-06	-2.8014116	-1.486154	2.8014116	down	PPP1R8
0.4845791	0.47287464	0.6341224	-0.47287464	-0.5889864	-1.0362897	0.002859616	0.002371275	2.345522	1.229909	2.345522	up	RBM19
-0.9620886	-0.82053804	-0.34703016	0.36357975	0.34703016	0.4247136	0.004885417	0.004379687	-2.126273	-1.0883268	2.126273	down	C1QTNF3-AMACR
0.53453255	0.5319338	0.63655376	-0.5319338	-0.55109596	-0.55173683	0.00015729	5.87443E-06	2.1623433	1.1125956	2.1623433	up	FAM126A
-0.6511307	-0.47676992	-0.44096518	0.44096518	0.53060436	0.54958105	0.00051186	0.000146819	-2.042032	-1.0300055	2.042032	down	CAST
-0.43000793	-0.7300463	-0.5576639	0.43000793	0.50139236	0.54286385	0.000757826	0.000332664	-2.0907116	-1.063994	2.0907116	down	TUSC1
-0.80930376	-0.7901139	-0.42274237	0.4957528	0.47563362	0.42274237	0.001329487	0.000872859	-2.2019215	-1.138763	2.2019215	down	PLXNA1
-0.6201029	-0.6404247	-0.4473405	0.48309088	0.49741125	0.4473405	0.000383347	7.74969E-05	-2.0637052	-1.045237	2.0637052	down	FAM189B
-0.7371254	-0.7626715	-0.5527544	0.6989336	0.5527539	0.7668991	0.000467989	0.000120113	-2.5616014	-1.357046	2.5616014	down	MMP7
0.64908266	0.44822836	0.61017513	-0.44822836	-0.903188	-0.71635795	0.001451218	0.000986985	2.3923364	1.2584202	2.3923364	up	RASGEF1B
-0.6618023	-1.3350196	-0.6625514	0.8100934	0.74829245	0.66180277	0.002535041	0.002054103	-3.0876744	-1.6265206	3.0876744	down	CNP
-0.7704706	-0.7058406	-0.55423546	0.554235	0.77466154	0.693974	0.00046518	0.000118998	-2.5511346	-1.3511391	2.5511346	down	SCLY
-0.61960983	-0.77660465	-0.5557499	0.7514529	0.6184821	0.5557499	0.000468981	0.00012156	-2.4496062	-1.2925498	2.4496062	down	KIAA1984
-0.63081694	-0.59340715	-0.5686722	0.61803627	0.5925913	0.5686722	9.02292E-05	8.34498E-07	-2.2826853	-1.190732	2.2826853	down	RC3H2
-0.5949688	-0.5812044	-0.59586334	0.69548607	0.6015482	0.5812044	0.000147081	4.33029E-06	-2.324239	-1.2167585	2.324239	down	PRKACA
0.471941	0.5413966	0.6422963	-0.471941	-0.61309195	-0.49478865	0.000392993	8.22148E-05	2.1118176	1.0784853	2.1118176	up	NEGR1
-1.0048351	-0.87990475	-0.76157475	1.0040417	0.76157475	0.8512974	0.000349349	6.12748E-05	-3.373882	-1.7544096	3.373882	down	ODZ3
0.8136916	0.753891	0.7581401	-0.753891	-1.0569625	-0.9018159	0.000313231	4.7684E-05	3.2030895	1.6794641	3.2030895	up	KRTAP2-4
0.89902353	0.46155977	0.5862503	-0.53673506	-0.48267508	-0.46155977	0.001445459	0.000980721	2.2077875	1.1426013	2.2077875	up	SATB2
-0.8795409	-0.4631667	-0.67625093	0.6413655	0.4631667	0.5209265	0.001206139	0.000755833	-2.3210955	-1.2148058	2.3210955	down	MYO6
0.5571985	0.43473053	0.6711507	-0.43473005	-0.5282855	-0.5592375	0.000542439	0.000167356	2.087502	1.0617776	2.087502	up	SOCS3
0.91748524	0.87813187	0.7457833	-0.9067788	-0.7457833	-0.79687357	0.000221003	1.89901E-05	3.168087	1.663612	3.168087	up	BCL2A1
0.65787745	0.5974269	0.9158702	-0.59742737	-0.69658566	-0.7718525	0.000603155	0.000211635	2.6616974	1.4123466	2.6616974	up	PRKAB2
-0.6762581	-0.5510807	-0.65638256	0.7832489	0.68852615	0.5510807	0.000376544	7.46188E-05	-2.4660335	-1.3021923	2.4660335	down	PPP1CC

-0.7383385	-0.50402117	-0.5688195	0.6507573	0.5076833	0.50402164	0.000543097	0.000167667	-2.231294	-1.1578805	2.231294	down	LOC100652761
0.589674	0.53805256	0.6260786	-0.55120707	-0.5871167	-0.5380521	0.000119884	2.62803E-06	2.2090003	1.1433936	2.2090003	up	ELL2
0.90774584	0.9609885	0.86583567	-1.0467858	-0.86583567	-1.2781487	0.000397948	8.64285E-05	3.9315915	1.9751134	3.9315915	up	PTHLH
-0.63189125	-0.48590946	-0.5371647	0.5931673	0.48590946	0.5150814	0.000279622	3.49402E-05	-2.1184971	-1.0830412	2.1184971	down	TRIM38
-0.891304	-0.8678813	-0.75805426	0.96869946	0.75805426	0.75805426	0.00027486	3.34602E-05	-3.1763043	-1.6673491	3.1763043	down	ZNF197
-0.7547326	-0.58070374	-0.56508255	0.6199608	0.59542656	0.56508255	0.000295822	4.05121E-05	-2.340791	-1.2269962	2.340791	down	IGSF3
-1.0396852	-1.0087872	-0.85347843	0.8902683	0.9018097	0.85347843	0.000163112	6.35674E-06	-3.602926	-1.849169	3.602926	down	SNRPB
-0.70193624	-0.43610907	-0.5648999	0.5002308	0.43610907	0.48546886	0.000574901	0.000192697	-2.0584874	-1.0415846	2.0584874	down	RIPK2
0.6119456	0.8815379	0.867671	-0.7497201	-0.9077983	-0.6119456	0.000625325	0.00022778	2.9150882	1.5435395	2.9150882	up	GBP1
0.50745535	0.45851183	0.45014048	-0.45014048	-0.7299371	-0.70704985	0.000688281	0.000272931	2.1451497	1.1010783	2.1451497	up	KALRN
-0.5395889	-0.6218066	-0.7058735	0.53958845	0.75981045	0.68211603	0.00040539	9.01292E-05	-2.4333231	-1.282928	2.4333231	down	FGFR2
0.67873955	0.82809925	0.79979706	-0.67873955	-0.7213206	-0.77347994	0.000182139	9.70537E-06	2.8155017	1.493392	2.8155017	up	CEP97
-0.4344411	-0.507112	-0.6308515	0.7362504	0.4344411	0.8280096	0.001290133	0.000837102	-2.2821105	-1.1903687	2.2821105	down	FGFR3
-0.9638858	-1.016304	-0.96366835	0.96366787	1.0234146	0.99417114	8.01385E-05	1.43747E-07	-3.931384	-1.9750373	3.931384	down	ANAPC13
-0.7588682	-0.39977837	-0.5456433	0.50635767	0.39977837	0.5291252	0.001170741	0.000721135	-2.0655372	-1.046517	2.0655372	down	PAQR4
0.49726057	0.5943184	0.37457085	-0.37457085	-0.584054	-0.7806759	0.001788273	0.001317127	2.0972278	1.0684836	2.0972278	up	RASAL2
-0.53953314	-0.5045581	-0.662848	0.50455856	0.5966439	0.5636711	0.000275803	3.39829E-05	-2.17941	-1.1239376	2.17941	down	MUT
-0.4270401	-0.642148	-0.51860523	0.69267845	0.5368891	0.4270401	0.000835273	0.000400569	-2.1161866	-1.0814669	2.1161866	down	KIAA2013
-0.6524267	-0.585227	-0.49859905	0.648469	0.4987793	0.49859905	0.000373464	7.26713E-05	-2.1845963	-1.1273667	2.1845963	down	PSMB6
-0.566216	-0.6232486	-0.48829174	0.5798764	0.48829126	0.51497984	0.000230162	2.18565E-05	-2.1242712	-1.086968	2.1242712	down	CNOT6L
0.51547575	0.6948662	0.779264	-0.51547575	-0.52395296	-0.7505636	0.000749704	0.000325075	2.394735	1.2598661	2.394735	up	ENTPD7
-0.923007	-0.8186102	-0.7846708	0.82667875	0.7846708	1.0202255	0.000273363	3.30699E-05	-3.292738	-1.7192878	3.292738	down	ITGB6
-0.62693024	-0.68561363	-0.88474894	0.67238665	0.62693024	0.78516626	0.000421655	9.6951E-05	-2.6893523	-1.4272587	2.6893523	down	HOXA7
0.6012163	0.51133347	0.4130149	-0.5713587	-0.5986228	-0.41301537	0.000585443	0.000198845	2.0508006	1.0361872	2.0508006	up	HECTD2
-0.67286396	-0.44424152	-0.5316448	0.6150007	0.44424152	0.4761448	0.000633379	0.000233955	-2.0869257	-1.0613792	2.0869257	down	HOXA9
-0.60835314	-0.44010067	-0.6703749	0.5720048	0.44010067	0.6357107	0.000635711	0.000235054	-2.1768093	-1.122215	2.1768093	down	SCARB2
-0.6200409	-0.6986542	-0.5180845	0.6641588	0.58009815	0.5180845	0.000342665	5.80537E-05	-2.2969303	-1.199707	2.2969303	down	GAL3ST1
0.44317532	0.57022095	0.5403099	-0.44920254	-0.4431758	-0.61942387	0.000470762	0.000123411	2.0305016	1.0218362	2.0305016	up	DIXDC1
-0.6797862	-0.5451355	-0.7193408	0.6484394	0.58249664	0.5451355	0.000275803	3.40369E-05	-2.3621676	-1.2401114	2.3621676	down	KAT8
-0.6130624	-0.5944271	-0.48711395	0.5649619	0.60755444	0.48711395	0.00026007	2.9315E-05	-2.1705759	-1.1180779	2.1705759	down	ADSSL1
-0.6696739	-0.6403761	-0.65687656	0.69690895	0.6403761	0.6631775	8.01385E-05	2.28552E-07	-2.5009272	-1.322463	2.5009272	down	LOC100287223
0.46166992	0.52907753	0.5483446	-0.46166992	-0.5015507	-0.59516716	0.000247088	2.64901E-05	2.0455565	1.0324934	2.0455565	up	LPP
0.5038986	0.43601704	0.7585473	-0.43601704	-0.5197177	-0.5866265	0.000993959	0.000549569	2.1144385	1.0802747	2.1144385	up	UST

-0.674736	-0.6913152	-0.5235524	0.5787349	0.52355194	0.58544016	0.0002647	3.05553E-05	-2.285395	-1.1924435	2.285395	down	TSN
0.5407586	0.41641855	0.45971107	-0.41641903	-0.70832396	-0.48488235	0.000889432	0.00045197	2.0122895	1.0088378	2.0122895	up	SPANXF1
-0.67434335	-0.7852423	-0.89465237	0.83089256	0.8019395	0.6743431	0.000296523	4.08819E-05	-2.9359033	-1.5538044	2.9359033	down	REEP3
-1.3759284	-1.1594605	-1.3747792	1.1594601	1.1632261	1.188159	0.000147081	4.40841E-06	-5.5545545	-2.4736712	5.5545545	down	REEP5
-0.8371463	-0.7563338	-0.8994746	0.84989786	0.79780245	0.7563338	0.000148395	5.04021E-06	-3.1001318	-1.6323296	3.1001318	down	PPIF
0.44064188	0.53037834	0.64695024	-0.44064188	-0.4460559	-0.562387	0.00050025	0.000140672	2.0312274	1.0223517	2.0312274	up	SLC25A12
-0.966012	-0.9254637	-0.93121433	1.3586006	1.1492338	0.9254637	0.000383347	7.73267E-05	-4.2437196	-2.0853293	4.2437196	down	PDZK1P1
0.551816	0.5258026	0.7050462	-0.67350817	-0.5258026	-0.6967826	0.000410883	9.28311E-05	2.3395853	1.2262528	2.3395853	up	KCTD10
0.47985744	0.49320126	0.7079911	-0.47985697	-0.64475155	-0.73871565	0.00079604	0.000365704	2.2680588	1.181458	2.2680588	up	NEDD4
-0.7286215	-0.74986076	-0.62747574	0.7596884	0.62747574	0.7586012	0.000214144	1.65254E-05	-2.670743	-1.4172411	2.670743	down	UCP2
-0.915473	-0.5377846	-0.48871946	0.52806616	0.6069393	0.48871946	0.001499974	0.001033338	-2.279263	-1.1885674	2.279263	down	PSMC2
0.66350555	0.69236374	0.705039	-0.70016956	-0.66350555	-0.83055305	0.000187426	1.0873E-05	2.67285	1.4183788	2.67285	up	GLS
0.7438574	1.0824265	1.1972198	-0.8632636	-0.7438574	-1.0857782	0.000780828	0.000352478	3.746303	1.9054676	3.746303	up	CD274
0.5154486	0.48099232	0.6130371	-0.48099232	-0.56635	-0.63904953	0.000331482	5.37817E-05	2.1415024	1.0986233	2.1415024	up	SPCS3
0.45584202	0.5578799	0.69278	-0.45584202	-0.85390186	-0.51310253	0.001621994	0.001156686	2.2601986	1.1764495	2.2601986	up	WDR4
-0.7640958	-0.50140953	-0.5802274	0.68963337	0.63113785	0.50141	0.00060916	0.000215923	-2.3337305	-1.2226379	2.3337305	down	SMC1A
-0.68707085	-0.73663807	-0.87010574	0.68707085	0.7120571	0.7845564	0.000217781	1.76455E-05	-2.8137605	-1.4924996	2.8137605	down	DUT
-0.56097364	-0.6269703	-0.56420517	0.572876	0.62569475	0.56097364	0.000114387	2.33728E-06	-2.2509975	-1.1705644	2.2509975	down	D2HGDH
0.4946642	0.5151763	0.52932215	-0.4946642	-0.54130936	-0.54130936	8.27669E-05	6.04792E-07	2.0545397	1.0388151	2.0545397	up	SNORA12
-0.6045275	-0.40100384	-0.6407099	0.45525885	0.40100384	0.5607004	0.000741233	0.000316854	-2.0294209	-1.0210681	2.0294209	down	FAM175A
-0.7504773	-0.5413165	-0.68321085	0.541317	0.592505	0.5778384	0.00029801	4.20198E-05	-2.3438632	-1.2288884	2.3438632	down	SORL1
-1.0327287	-1.1004128	-0.68811464	0.68811464	0.7118001	0.74407816	0.000602556	0.000210691	-3.1494129	-1.655083	3.1494129	down	PSPH
0.6667423	0.54249763	0.83528423	-0.54249763	-0.6106758	-0.67476463	0.000523093	0.000156488	2.4466722	1.2908208	2.4466722	up	C21orf7
-0.6209469	-0.6327801	-0.6454854	0.6209469	0.74756193	0.7124977	0.000147081	4.18832E-06	-2.5083516	-1.3267395	2.5083516	down	TMEM64
-0.49622917	-0.5462222	-0.3480382	0.7505946	0.3480382	0.57834244	0.001923453	0.001450268	-2.0314195	-1.0224882	2.0314195	down	EPCAM
-1.076303	-0.9490366	-0.84829617	1.0846596	0.84829617	1.0813375	0.000302233	4.35634E-05	-3.897754	-1.962643	3.897754	down	DGCR2
0.44944286	0.46551704	0.50698185	-0.46846867	-0.44944286	-0.66939974	0.000524314	0.000157507	2.0042803	1.0030843	2.0042803	up	MKLN1
-0.5275121	-0.67616034	-0.66503	0.5275121	0.59444	0.63954115	0.000265194	3.08257E-05	-2.3134809	-1.2100651	2.3134809	down	TMEM56
1.2336054	1.3064747	1.302846	-1.2336054	-1.260397	-1.5086193	0.000178281	8.61249E-06	6.1270065	2.6151824	6.1270065	up	SLN
0.47048187	0.5021305	0.5812321	-0.47048187	-0.48285866	-0.5755997	0.000244122	2.53372E-05	2.0386226	1.0275948	2.0386226	up	MAPKAP1
0.6489544	0.6777067	0.57922363	-0.57922363	-0.70901203	-0.8241954	0.000350489	6.26777E-05	2.5305283	1.3394387	2.5305283	up	RANBP6
-0.5576024	-0.48466778	-0.40199423	0.76900625	0.5771146	0.40199423	0.001211728	0.00076149	-2.0909035	-1.0641265	2.0909035	down	ACYP1
0.64997005	0.70884895	0.6915941	-0.6776819	-0.64997005	-0.6665673	8.01385E-05	2.48572E-07	2.5459619	1.3482108	2.5459619	up	YRDC

-0.5169463	-0.6048827	-0.44107103	0.44107056	0.6124234	0.44893742	0.000518446	0.000152861	-2.0304186	-1.0217772	2.0304186	down	C9orf100
-0.4718132	-0.57552195	-0.48125315	0.48601103	0.56544113	0.4718132	0.000227048	2.09292E-05	-2.0241055	-1.0172845	2.0241055	down	TM9SF3
0.38262272	0.53726673	0.61104393	-0.49842834	-0.3826232	-0.61491156	0.000883406	0.00044505	2.0124676	1.0089655	2.0124676	up	VCPIP1
0.46019936	0.6940508	0.65766144	-0.46019983	-0.6065526	-0.57407093	0.000551885	0.000173222	2.2205415	1.1509116	2.2205415	up	PRKCA
-0.7682195	-0.87906265	-0.82459354	0.779243	0.7682195	0.7991719	9.59161E-05	1.09964E-06	-3.0444255	-1.60617	3.0444255	down	VSIG10
-0.99640656	-0.7797384	-0.8504944	0.99509335	0.7797384	0.80652237	0.000315169	4.86188E-05	-3.3310983	-1.7359979	3.3310983	down	TM9SF2
0.5659561	0.55113363	0.70145464	-0.55113363	-0.71850014	-0.6499033	0.000327535	5.26982E-05	2.3718736	1.2460271	2.3718736	up	ZNF93
0.63481617	0.70066214	0.76646423	-0.63481617	-0.7773018	-0.7737789	0.000221003	1.88837E-05	2.6931224	1.4292798	2.6931224	up	FAM47E-STBD1
-0.73710537	-0.8801098	-0.6999068	0.85720444	0.81959057	0.6999073	0.000248187	2.73711E-05	-2.9579713	-1.5646081	2.9579713	down	RABL5
-0.55536747	-0.904336	-0.46273708	0.5348263	0.47216082	0.4627366	0.001620631	0.001154051	-2.189682	-1.1307214	2.189682	down	LEPREL4
0.462224	0.44179153	0.48617935	-0.7097969	-0.44179153	-0.5352001	0.000600749	0.000209002	2.035892	1.0256611	2.035892	up	MPP4
0.5585017	0.6699419	0.6954508	-0.55850124	-0.673038	-0.84355116	0.000492959	0.000136946	2.519251	1.3329949	2.519251	up	PRKCH
-0.6049628	-0.59966326	-0.6603174	0.6767392	0.5996628	0.62711096	0.000111413	1.87998E-06	-2.3885782	-1.2561522	2.3885782	down	ARHGAP29
0.48885632	0.4767933	0.6070733	-0.4767933	-0.51108027	-0.67218304	0.000470819	0.000123797	2.110512	1.0775931	2.110512	up	NLRP3
0.47828484	0.40349483	0.58337784	-0.5375624	-0.40349483	-0.6246772	0.000668736	0.000259295	2.014326	1.0102973	2.014326	up	DAPK3
-0.6550503	-0.6254883	-0.59453773	0.6501274	0.59453773	0.6015892	9.16089E-05	9.42121E-07	-2.3627117	-1.2404436	2.3627117	down	DAPK1
0.49818945	0.51416636	0.52895546	-0.6587744	-0.49818945	-0.5586324	0.000230162	2.20059E-05	2.1223106	1.0856358	2.1223106	up	FAM134B
-0.6012397	-0.6154361	-0.4950328	0.5623064	0.49503326	0.5239897	0.000202363	1.35947E-05	-2.1401017	-1.0976794	2.1401017	down	MAGT1
-0.7286391	-0.5729494	-0.5778165	0.67576885	0.5729494	0.61037636	0.000263489	3.02709E-05	-2.372103	-1.2461666	2.372103	down	MANEAL
-0.7317753	-0.7792063	-0.6867099	0.8055358	0.6867099	0.73012304	0.000147081	4.65753E-06	-2.7766654	-1.4733534	2.7766654	down	CRKL
-0.50512695	-0.65064764	-0.42068338	0.54981136	0.42068386	0.5891051	0.000646495	0.000242585	-2.063871	-1.0453527	2.063871	down	PANK1
0.511189	0.7396045	0.7593055	-0.6627269	-0.6911044	-0.511189	0.000566085	0.000185759	2.4481745	1.2917063	2.4481745	up	HIPK3
-0.60314965	-0.7474036	-0.67504835	0.6359644	0.6031494	0.99096537	0.000848173	0.00041215	-2.673186	-1.4185603	2.673186	down	KLHL14
-0.5495281	-0.6036682	-0.58846855	0.762867	0.5495281	0.5981703	0.000327213	5.24798E-05	-2.325289	-1.2174101	2.325289	down	KPNA6
-0.63654613	-0.40009642	-0.51986694	0.58387756	0.40009594	0.47715664	0.000738479	0.000313866	-2.008168	-1.0058799	2.008168	down	CUX1
-0.9718318	-0.7603245	-0.70989084	0.84211683	0.7098913	0.84080315	0.000348394	6.08769E-05	-3.0559468	-1.6116195	3.0559468	down	KPNA1
-0.80289745	-0.9117298	-0.58947754	0.6103625	0.6781883	0.58947754	0.000506042	0.000143895	-2.628144	-1.3940444	2.628144	down	PPP4R2
-0.6666522	-0.5856247	-0.61680126	0.70404243	0.698863	0.5856247	0.000179882	9.14481E-06	-2.4382896	-1.2858695	2.4382896	down	MAL2
-0.63931465	-0.6940079	-0.4765606	0.6532512	0.4765606	0.52752876	0.000529739	0.00016014	-2.2279875	-1.1557412	2.2279875	down	NUP160
-0.47091246	-0.5393486	-0.5157447	0.6064043	0.65338707	0.47091198	0.000315797	4.88597E-05	-2.1222134	-1.0855697	2.1222134	down	PPP4R1
0.5350485	0.5446367	0.7251272	-0.5350485	-0.58318424	-0.7364607	0.000512374	0.000147819	2.3292012	1.2198353	2.3292012	up	CALD1
0.80068016	0.80884266	0.76478195	-0.796484	-0.76478195	-0.8085661	8.01385E-05	1.19842E-07	2.9925575	1.5813789	2.9925575	up	TNC
-0.67051697	-0.56903076	-0.66474485	0.7230444	0.6193867	0.56903076	0.000230747	2.22941E-05	-2.414824	-1.271918	2.414824	down	SLC37A4

-0.40494776	-0.42512465	-0.77165604	0.40494776	0.43718386	0.56748676	0.001942187	0.00146965	-2.0052502	-1.0037823	2.0052502	down	KIAA0101
-0.610631	-0.5190735	-0.61562634	0.6835823	0.5675268	0.5190735	0.000280594	3.54942E-05	-2.2529852	-1.1718378	2.2529852	down	C6orf72
0.61104107	0.60488415	0.5382881	-0.5514202	-0.6617422	-0.5382881	0.000202749	1.37155E-05	2.2478638	1.1685545	2.2478638	up	TMEM158
-0.71925163	-0.7086773	-0.5756035	0.689476	0.5756035	0.617054	0.000230162	2.21441E-05	-2.4541473	-1.2952219	2.4541473	down	ARHGAP35
-0.44556332	-0.566967	-0.6543441	0.5887246	0.44556332	0.46896505	0.000512374	0.000147556	-2.080181	-1.056709	2.080181	down	TCF7L2
-0.8681741	-0.85101366	-0.3704157	0.49314356	0.4170599	0.3704157	0.003037843	0.002544142	-2.1786094	-1.1234075	2.1786094	down	SNN
-0.6531501	-0.44484043	-0.4725876	0.6186638	0.4918728	0.44483995	0.000637155	0.000236325	-2.0590584	-1.0419848	2.0590584	down	MTHFR
-0.66130304	-0.60454655	-0.5889869	0.6939955	0.58898735	0.5943155	0.000167189	6.76448E-06	-2.368617	-1.2440449	2.368617	down	POM121
0.46238518	0.49628925	0.5464115	-0.5148101	-0.46238518	-0.7224932	0.000602623	0.00021098	2.0969002	1.0682582	2.0969002	up	MAP3K2
0.47371292	0.68813324	0.5238266	-0.47371292	-0.5415735	-0.7679987	0.000902672	0.000463745	2.2288804	1.1563193	2.2288804	up	SLC39A9
0.6349287	0.7512541	0.49722862	-0.49722862	-0.52482414	-0.6458044	0.000538302	0.000164696	2.2716744	1.1837561	2.2716744	up	MZT1
-0.87339115	-0.5308256	-0.59577227	0.63906574	0.53082514	0.674551	0.000780347	0.000351843	-2.4308772	-1.281477	2.4308772	down	TNFRSF19
0.5659156	0.7457161	0.6834574	-0.5857043	-0.7243457	-0.5659156	0.000343812	5.87063E-05	2.4458766	1.2903516	2.4458766	up	MSI2
-0.74632454	-0.6812353	-0.585906	0.6369791	0.58942604	0.585906	0.000201041	1.33847E-05	-2.4204228	-1.275259	2.4204228	down	POM121C
-0.59507847	-0.53389597	-0.46766853	0.46766853	0.49159098	0.57234764	0.000250013	2.77755E-05	-2.060151	-1.0427501	2.060151	down	PHF20L1
-0.55200815	-0.5846	-0.4626274	0.8112421	0.5873194	0.4626274	0.000878486	0.000440201	-2.2244904	-1.1534748	2.2244904	down	PPAP2B
-0.61518	-0.62344074	-0.42866325	0.4879799	0.42866325	0.44613552	0.000441857	0.000106249	-2.01394	-1.0100209	2.01394	down	C11orf31
-1.0483665	-0.8297982	-1.1240668	0.8551388	0.8297987	0.8581972	0.000267587	3.13028E-05	-3.6011443	-1.8484554	3.6011443	down	TNPO1
-1.1210179	-1.1514382	-0.92606974	1.0863857	0.94153595	0.92606926	0.000221106	1.93129E-05	-4.1434684	-2.050839	4.1434684	down	SLC39A1
-0.5840292	-0.6030817	-0.36405134	0.58187485	0.57546806	0.36405134	0.001060591	0.000616549	-2.0338106	-1.0241854	2.0338106	down	DCTD
-0.53726435	-0.58511496	-0.68766737	0.64885855	0.616076	0.53726435	0.000247088	2.6439E-05	-2.303906	-1.2040819	2.303906	down	C5orf51
-0.64294434	-0.676795	-0.62799454	0.71350384	0.8415098	0.62799454	0.000247463	2.70953E-05	-2.5971224	-1.376914	2.5971224	down	DNM1L
-0.90834284	-0.86588526	-0.86652756	0.96308136	0.89901733	0.86588526	8.27669E-05	5.96842E-07	-3.457142	-1.7895799	3.457142	down	KAT2B
0.6184225	0.49110842	0.67662907	-0.6074033	-0.49110842	-0.5970788	0.000349522	6.21477E-05	2.2354782	1.1605835	2.2354782	up	PTPRE
-0.40726423	-0.6011658	-0.65438557	0.5803971	0.43436718	0.40726423	0.000802003	0.000370307	-2.0395932	-1.0282815	2.0395932	down	DHRS13
-1.2768383	-1.2642345	-0.930089	1.1892614	1.0179596	0.930089	0.000398465	8.67025E-05	-4.6037965	-2.202824	4.6037965	down	ALYREF
-0.7704706	-0.7058406	-0.55423546	0.554235	0.77466154	0.693974	0.00046518	0.000118998	-2.5511346	-1.3511391	2.5511346	down	UBE2F-SCLY
-0.73001575	-0.8638506	-0.6675825	0.70082283	0.66758204	0.6934438	0.000213962	1.64074E-05	-2.7152765	-1.4410992	2.7152765	down	PAPLN
-0.9376707	-0.954586	-0.88238907	0.9717026	0.97991085	0.88238907	9.19451E-05	1.03051E-06	-3.6541846	-1.8695495	3.6541846	down	SPARC
-0.7807436	-1.0866599	-0.69085646	0.7342529	0.69085646	0.7846122	0.000596857	0.000205734	-3.00909	-1.5893272	3.00909	down	UBL3
-0.46736193	-0.52785873	-0.65813017	0.55020523	0.47538376	0.46736145	0.000372527	7.23379E-05	-2.068761	-1.0487671	2.068761	down	PLAC8
0.6729889	0.71008587	0.6852503	-0.7422838	-0.696959	-0.6729889	8.01385E-05	4.49315E-07	2.627187	1.3935189	2.627187	up	ATXN1
-0.75433636	-0.5548048	-0.4485345	0.4485345	0.4685912	0.52714014	0.000749653	0.000324714	-2.0955281	-1.0673139	2.0955281	down	WSB1

-0.76708555	-0.61551523	-0.505651	0.5439062	0.5056515	0.51645947	0.000456876	0.000114368	-2.2213287	-1.151423	2.2213287	down	ADNP2
-0.6439867	-0.66348076	-0.39619303	0.44775486	0.46398354	0.39619255	0.000771022	0.000343256	-2.0053635	-1.0038638	2.0053635	down	TMEM48
-0.5335932	-0.4174137	-0.6976423	0.53975105	0.671813	0.4174137	0.001010952	0.00056813	-2.1324952	-1.0925424	2.1324952	down	SLC17A3
-0.6664543	-0.6925602	-0.64663696	0.7023258	0.64663696	0.65361595	8.01385E-05	4.39656E-07	-2.5246384	-1.3360767	2.5246384	down	SLC6A6
-0.5200167	-0.5061016	-0.57676125	0.5061021	0.5383072	0.6395912	0.000217993	1.78855E-05	-2.1370587	-1.0956266	2.1370587	down	C1RL
-0.57637405	-0.801229	-0.5707512	0.723403	0.7878828	0.5707512	0.000553146	0.000174327	-2.5375984	-1.3434638	2.5375984	down	SH3BP1
-0.6224365	-0.7108917	-0.6181803	0.76310444	0.6181803	0.71643925	0.000201041	1.34118E-05	-2.5486693	-1.3497442	2.5486693	down	IGFBP3
-0.70740795	-0.4410777	-0.45404577	0.46427107	0.61116695	0.44107723	0.000958029	0.000516869	-2.0557747	-1.0396821	2.0557747	down	NFIA
-1.0891683	-0.8534126	-1.0562139	0.9588413	0.8534126	0.9588413	0.000221106	1.92649E-05	-3.7928877	-1.9232967	3.7928877	down	ATP8A1
-0.39585447	-0.7273531	-0.493505	0.54525614	0.64082575	0.39585447	0.00139004	0.000928825	-2.0939343	-1.0662162	2.0939343	down	F2R

Table SV. The result of IPA upstream analysis.

Upstream Regulator	Expr Fold Change	Molecule Type	Predicted Activation State	Activation z-score	p-value of overlap	Target molecules in dataset	Mechanistic Network
tributyrin		chemical drug	Activated	3.326	1.33E-17	ADM,AKAP12,BCL2A1,C1orf116,CASP3,CCL2,CCL20,CD274,CXCL3,CXCL8,DUSP1,EDN1,ETS1,GBP1,HBEGF,HNRNPD,IL24,IL6,PDLIM5,RGS4,SAMD4A	
TGFB1		growth factor		0.597	6.24E-15	ACTA2,ADM,AREG,ARHGAP35,ATXN1,BACE1,BIRC5,BNIP3L,C3AR1,CADM1,CALD1,CASP3,CCL2,CCL20,CCND1,CDKN1C,CDKN2C,CTNNB1,CXCL2,CXCL3,CXCL8,CYB561,DAPK1,DDIT4,DNAJA1,DNAJB6,DUSP1,DYRK2,EDN1,ELF3,EPCAM,ETS1,EXT2,F2R,FERMT2,FGF2,FGF5,FGFR2,FUT8,GADD45A,GBP1,GCNT1,GDF15,GEM,GJA1,HBEGF,HMGN2,HNRNPC,HNRNPDL,IGFBP3,IL6,IMPDH1,ITGB6,ITPR1,KITLG,KPNA6,LASP1,MBNL2,MMP7,NEGR1,NLRP3,NT5E,PDLIM5,PDLIM7,PIM1,PLAT,PLAU,PLAUR,PLSCR1,PRKCA,PSPH,PTGER4,PTHLH,PTPRK,RBL2,RBM19,RXRA,SCD,SDC1,SERPINE2,SGK1,SHMT1,SLC2A3,SLC39A1,SLN,SMAD2,SMC2,SNTB2,SOCS3,SPARC,SSRP1,STAT1,TFRC,TGFA,TGFB2,TGFBR1,TNC,TOP2A,UST,VCAN	253 (20)
TNF		cytokine	Activated	2.363	5.73E-14	ACTA2,ADM,AKAP12,AKR1B10,ARHGDIB,B4GALT1,BACE1,BCL2A1,BIRC5,C3AR1,CASP3,CCL2,CCL20,CCND1,CD274,CDC42,CDKN2C,CNP,CRISPLD2,CTDSPL,CTNNB1,CXCL2,CXCL3,CXCL8,DUSP1,EDN1,EFHD2,EFNB2,ELF3,ETS1,FGF2,FGF5,FGFR2,FPR1,GADD45A,GBP1,GDF15,GEM,GJA1,GLS,GNAI1,GPD2,GSK3B,HBEGF,HIPK3,HOXA9,IGFBP3,IL1R2,IL24,IL6,IL7R,ITGB6,ITPR1,KITLG,KYNU,MAPKAP1,MECP2,MMP7,NLRP3,OSMR,OVOS2,PARP1,PDZD2,PIM1,PIM2,PLAT,PLAU,PLAUR,PLSCR1,PPIF,PRKCA,PTHLH,RGS4,RIPK2,RNASE4,RXRA,SAMD4A,SCD,SDC1,SERPINB9,SERPINE2,SGK1,SMPD1,SNN,SOCS3,SOD1,SORBS1,SPARC,STAT1,SYNGR3,TCFL5,TFRC,TGFA,TGFB2,TGFBR1,TINAGL1,TNC,UCP2,VAV3,ZNF267	230 (19)
KRAS		enzyme		0.11	3.67E-13	AKR1B10,AOX1,AREG,BIRC5,CASP3,CCND1,CD274,CTNNB1,CXCL8,DDAH1,EFEMP1,EI24,EPCAM,GADD45A,GJA1,GTF2I,HBEGF,HYOU1,IFITM2,IFITM3,IL24,IL6,LBH,MAP1LC3B,MMP7,NT5E,PIM1,PLAT,RNASE4,SERPINE2,SIRPA,SNX16,SPARC,SPRY2,STAT1,STAT2,TNC,TOP2A,VCAN	144 (19)
ERBB2		kinase		0.77	6.91E-13	ACTA2,AREG,BACE1,BIRC5,CADM1,CCL20,CCND1,CDC42,CDCA5,CDCA7,CDCA7L,CDKN2C,CTNNB1,CXCL3,CXCL8,CYB561,DNAJB6,EDN1,ELF3,ELL2,F2R,FAM134B,GJA1,GLS,GNAI1,GPD2,GSK3B,HBEGF,HMGB2,HOMER2,IGFBP3,IL6,MMP7,PDHA1,PLAC8,PLAT,PLAU,PLAUR,POLA1,POLR1D,POLR3GL,PTPRK,RBL2,SDC1,SHMT1,SIRPA,SMAD2,SMC2,SORBS1,SPARC,STK17B,TGFA,TGFBR1,TNC,TOP2A,USP14,VCAN	192 (22)
mycophenolic acid		chemical drug	Activated	2.328	8.07E-13	ACTA2,ADM,AKAP12,C1orf116,CCL2,CCL20,CD274,CXCL3,CXCL8,DUSP1,EDN1,ETS1,GBP1,HBEGF,HNRNPD,IL6,PDLIM5,RGS4,SAMD4A	150 (20)
Salmonella enterica		chemical toxicant	Activated	2.842	4.48E-12	ABL2,AREG,ARL5B,CCL20,CD274,CXCL2,CXCL3,EDN1,FERMT2,GADD45A,GBP1,GEM,IL6,IL7R,NEDD4L,NLRP3,PIM2,PL	163 (15)

serotype abortus equi lipopolysaccharide						AC8,PLAU,PTTG1IP,RIPK2,SLAMF7,SOCS3,YRDC,ZBTB10	
TP53		transcription regulator		0.16	6.72E-12	ACTA2,ADH5,AIFM2,AKAP12,AREG,ATXN1,BCL2A1,BIRC5,CASP3,CCL2,CCND1,CTNNB1,CXCL8,DAPK1,DAPK3,DDIT4,DHCR7,DICER1,DNM1L,DUSP1,DUT,EDN1,EI24,F2R,FERMT2,FGF2,GADD45A,GBP1,GDF15,GLIPR1,GNAI1,GSK3B,HBEGF,HMGB2,HMGN2,HSPA4L,IGFBP3,IL6,KAT2B,KIAA0101,KITLG,LASP1,LIMA1,LPP,MBNL2,MYO6,NEO1,PANK1,PDIA5,PDLIM5,PIM1,PLAU,PLAUR,POLA1,PPP1CC,PPP4R2,PRKAB2,PRKCA,PTPRE,PURA,RAP2B,RBL2,RCHY1,RNASE4,SEC62,SERPINB9,SERPINE2,SGK1,SH3BGRL2,SLC6A6,SMC2,SOD1,SORBS1,STAT1,TCF7L2,TGFA,TGFB2,TGFBR1,TINAGL1,TOP2A,TULP4,UBL3,USP14,VCAN	214 (23)
PD98059		chemical - kinase inhibitor		-0.301	7.87E-12	ACTA2,AKAP12,AREG,BIRC5,CASP3,CCL2,CCL20,CCND1,CTNNB1,CXCL2,CXCL3,CXCL8,DUSP1,EDN1,EI24,ETS1,F2R,FGF2,GADD45A,GJA1,GSK3B,GTF2I,HBEGF,HMGB3,HYOU1,IGFBP3,IL24,IL6,LPGAT1,MMP7,OSMR,PIM1,PLAT,PLAU,PLAUR,PTHLH,RNASE4,SDC1,SIGMAR1,SIRPA,SOCS3,SOD1,SPRY2,TCF3,TOP2A,VCAN	148 (16)
EGF		growth factor		0.466	1.37E-11	AREG,B4GALT1,BIRC5,CASP3,CCL20,CCND1,CLDN2,CXCL2,CXCL8,DUSP1,EDN1,EFNB2,ELF3,ETS1,FGF2,GADD45A,GAL3ST1,GJA1,GSK3B,HBEGF,IGFBP3,IL1R2,IL6,IL7R,MAP3K5,PLAT,PLAU,PLAUR,PLPP3,PLSCR1,PRKCH,PSMB6,PTHLH,RXRA,SCD,SDC1,SOCS3,SPARC,SPRY2,STAT1,TGFA,TNC,VCAN	197 (23)
camptothecin		chemical drug	Activated	2.152	1.58E-11	ACTA2,AMACR,BCL2A1,BIRC5,BNIP3L,CASP3,CAST,CCL2,CCL20,CCND1,CXCL2,CXCL3,CXCL8,DNM1L,EDN1,EI24,FNDC3A,FPR1,FUT8,GADD45A,GLIPR1,HBEGF,IGFBP3,IL6,IMPA2,ITPR1,MBNL2,MIR22HG,MYO5A,MYO6,PDLIM7,PDZD2,PLAC8,PPIF,PPP1CC,PRKAR2B,PTGER4,PTPRK,RIPK2,SDC1,SERPINB9,SNTB2,SORL1,SPRY2,STK17B,TFRC,TMEM158,VAV3	166 (15)
EGFR		kinase		-0.228	1.8E-11	ACTA2,AREG,BIRC5,CCL2,CCND1,CLDN2,CTNNB1,CXCL8,DUSP1,EFNB2,F2R,GADD45A,GBP1,HBEGF,HMGB3,HOXA7,IGFBP3,IL6,MTHFR,OSMR,PLAT,PLAU,PLAUR,PSMB6,PTGER4,PTPRE,SERPINE2,SLC2A3,SOCS3,SPRY2,TGFA,TNC,VCAN	138 (20)
MGEA5		enzyme		0	2.1E-11	ADGRL2,AIFM2,ARHGAP29,C3AR1,CCL2,CCL20,CCND1,CDCA7,CDCA7L,CDKN2C,CREB5,CTNNB1,CXCL8,DHCR7,EFNB2,FERMT2,FGF5,GADD45A,GPT2,HIVEP2,ICK,IGFBP3,JDP2,PDHA1,PLAU,PLPP3,RAB27A,SERPINB9,SERPINE2,SOCS3,SORBS1,STAT1,STAT2,TCF19,TGFA,TNC	164 (23)
dexamethasone		chemical drug		0.361	2.28E-11	ABHD2,ACTA2,ADM,AKAP12,AREG,ARL5B,ARMC8,BACE1,BCKDK,BCL2A1,BIRC5,C3AR1,CASP3,CCL2,CCL20,CCND1,CDCA7L,CDKN1C,CRISPLD2,CTNNB1,CXCL2,CXCL3,CXCL8,DAPK1,DAPK3,DDIT4,DNER,DNM1L,DUSP1,DUT,EDEM1,EDN1,FGF2,FGF5,GADD45A,GBP1,GDF15,GEM,GJA1,GTF2I,HBEGF,HMGB3,HMGN2,HOMER2,HOXA7,IFITM3,IGFBP3,IL1R2,IL6,IL7R,ISG20,ITGB6,ITPR1,LRRC8A,MAP3K5,MUT,NEDD4L,NF	266 (19)

						1,PCSK5,PIM1,PIM2,PLAT,PLAU,PRKCA,PTHLH,RBL2,RPS23,RXRA,SAA2,SCARB2,SCD,SEC14L1,SEC63,SERPINB9,SERPINE2,SGK1,SLC2A3,SOCS3,SOD1,SPARC,SRSF11,STAT1,TFRC,TGFA,TGFB2,TGFBR1,TNC,TNFRSF19,TOP2A,TSN,UBE2G1,UCP2,VCAN	
HRAS		enzyme		0.202	2.84E-11	ADM,AMACR,AREG,ASAP1,ATXN1,BIRC5,BTBD11,CALD1,CCND1,CTNNB1,CXCL8,DNER,DUSP1,EFEMP1,ETS1,F2R,FAM167A,FERMT2,FGF2,GJA1,IFITM2,IL24,IL6,LASP1,LPP,PDIA5,PDLIM5,PLAU,PLAUR,PRKCA,PTHLH,PTPRE,RTN4,SERPINB9,SERPINE2,SIRPA,SLN,SOD1,SORBS1,SPARC,SPRY2,TENM3,TGFB2,TINAGL1,TOP2A,VCAN	185 (19)
lipopolysaccharide		chemical drug	Activated	2.982	3.08E-11	ACTA2,ADM,AREG,ARHGEF3,ASAP1,BACE1,BCL2A1,C3AR1,CASP3,CCL2,CCL20,CCND1,CD274,CRTAP,CTNNB1,CXCL2,CXCL3,CXCL8,DDIT4,DUSP1,EDN1,EFNB2,ELF3,F2R,FGF2,FPR1,GADD45A,GBP1,GEM,GJA1,GLS,HBEGF,HIVEP2,HMGB2,HSPA4L,HYOU1,IFITM2,IGFBP3,IL1R2,IL24,IL6,IL7R,IREB2,ISG20,JDP2,KYNU,LASP1,MAP1LC3B,MMP7,NLRP3,OSMR,PAPSS2,PIM1,PIM2,PLAT,PLAU,PLAUR,PLSCR1,POLA1,PRKACA,PRKCA,PTGER4,PTHLH,PTPRG,RIPK2,RXRA,SAA2,SDC1,SERPINB9,SERPINE2,SIRPA,SLAMF7,SMAD2,SNTB2,SOCS3,SOD1,SPARC,STAT1,STAT2,TCF3,TCF7L2,TFRC,TGFA,TGFB2,TKT,TNC,TOP2A,UCP2,VCAN,VEZF1,VTI1B	212 (18)
ESR1		ligand-dependent nuclear receptor		-1.811	6.59E-11	ABHD2,AREG,ATG13,BIRC5,CALD1,CCL2,CCL20,CCND1,CDC42,CDC42SE2,CDKN1C,CLDN2,CRKL,CTNNB1,CXCL3,CXCL8,DCDC2,DDIT4,DHCR7,DYRK2,EDN1,EFEMP1,EFNB2,FAM102A,FGFR2,FMN1,GALNT7,GEM,GJA1,GNG12,HBEGF,HNRNPD,IFITM2,IFITM3,IGFBP3,IL6,ISG20,LIMA1,MYO6,NCKAP1,NDC1,NEDD4,NF1,NUP160,OVOS2,PDLIM5,PDZK1,PIM2,PLAU,PLAUR,POLA1,PRKCH,PTTG1IP,RAB27A,RBL2,SCARB2,SEC14L1,SEC63,SERPINB9,SGK1,SLC6A6,SMAD2,SMC2,SMPD1,SNN,STAT1,TCF7L2,TFRC,TGFA,TGFB2,TGFBR1,TMED10,TNPO1,UBL3,VAV3,VEZF1	249 (24)
forskolin		chemical toxicant		-0.077	1.13E-10	ACTA2,AKAP12,AREG,ATP6V1C1,B4GALT1,BIRC5,BNIP3L,CCND1,CDKN1C,CERK,CNP,CRISPLD2,CXCL3,DAPK1,DDIT4,DHCR7,DNM1L,DUSP1,EDN1,ELL2,FGFR2,GADD45A,GBP1,GEM,GFRA1,GJA1,IGFBP3,IL6,ITPR1,KITLG,MAP1LC3B,MAP3K5,NT5E,PLAT,PLAU,PRKACA,PRKAR2B,PTHLH,PTPRE,RAB27A,RASAL2,RASGEF1B,RGS4,SGK1,SRXN1,STAT1,TCF3,UCP2,VCAN	219 (21)
deferoxamine		chemical drug		1.511	1.19E-10	ADM,CCL20,CCND1,CTNNB1,CXCL8,DUSP1,FGF5,GADD45A,GDF15,GEM,IGFBP3,IL6,IREB2,ISG20,MAP1LC3B,PLAT,PLAUR,PRKCA,SERPINE2,SHMT1,SLC2A14,SLC2A3,SMAD2,TFRC,TGFB2	163 (17)
EDN1	2.684	cytokine		1.393	1.33E-10	ACTA2,AREG,BCL2A1,CCL2,CCND1,CDC42,CTNNB1,CXCL8,EDN1,FGF2,GJA1,HBEGF,IL6,MMP7,MPRIP,PLAU,PLAUR,PRKCA,PTGER4,SDC1,SF3B2,SOCS3,SOD1,TNC,VCAN	181 (21)
FGF2	-2.386	growth factor		0.225	1.36E-10	ACTA2,AKR1B10,AREG,BIRC5,CCL2,CCL20,CCND1,CNP,CTNNB1,CXCL2,EFNB2,EPCAM,ETS1,FGF2,FGFR2,FGFR3,GADD45A,GBP1,GJA1,HBEGF,IGFBP3,IL6,NF1,PLAT,PLAU,PLAUR,P	167 (20)

						TPRE,SCD,SDC1,SOCS3,SPARC,SPRY2,TGFB2,TOP2A	
cycloheximide		chemical reagent	Activated	3.698	2.85E-10	ADM,AREG,CCL2,CCL20,CCND1,CTNNB1,CXCL2,CXCL3,CXCL8,DDIT4,DUSP1,EDN1,FGF2,GADD45A,GBP1,GJA1,GNAI1,HBEGF,IL1R2,IL24,IL6,IL7R,ISG20,MMP7,PLAT,PLAU,PLAUR,PRKAR2B,PTHLH,RXRA,SCD,SOCS3,TGFA,TGFBR1	157 (16)
phorbol myristate acetate		chemical drug		-0.096	3.66E-10	ADM,AKR1B10,AREG,BCL2A1,BIRC5,BNIP3L,CCL2,CCL20,CCNA1,CCND1,CDC42,CERK,CTNNB1,CXCL2,CXCL3,CXCL8,DDIT4,DUSP1,EFNB2,ETS1,FGF2,GAL3ST1,GDF15,GEM,GJA1,GLS,HBEGF,HNRNPC,HOXA7,HOXA9,IGFBP3,IL24,IL6,IL7R,KAT2B,KRTAP2-3/KRTAP2-4,LBH,MECP2,MMP7,NDFIP2,NF1,PDLIM7,PIM1,PLAT,PLAU,PLAUR,PRKACA,PRKAR2B,PRKCA,PRKCH,PTGER4,PTPRE,PTPRG,PTPRJ,RAB27A,RXRA,SERPINB9,SMPD1,SOCS3,SOD1,SPARC,SRXN1,STAT1,TGFA,VCAN	223 (20)
Lh		complex		0.787	6.54E-10	ACTA2,AKAP12,AREG,ARHGAP35,BNIP3L,CDKN1C,CXCL8,DAPK1,DHCR7,DUSP1,GBP1,GEM,GJA1,IL6,ITPR1,MAP1LC3B,MAP3K5,PLAT,PRKACA,PTPRE,RAB27A,RASAL2,RGS4,SFRP4,SGK1,STAT1,TGFB2	217 (24)
STAT3		transcription regulator		0.952	7.48E-10	ACTA2,ADM,AREG,BIRC5,CASP3,CCL2,CCL20,CCND1,CD274,CXCL2,CXCL3,CXCL8,FERMT2,FGF2,GADD45A,GJA1,GLIPR1,HNRNPD,IFITM2,IFITM3,IL6,ISG20,ITGB6,KAT2B,MMP7,MRAS,NRP2,PIM1,PIM2,PLAU,PLAUR,PLSCR1,RAB27A,SERPINB9,SERPINE2,SGK1,SOCS3,STAT1,STAT2,TRIM5,VCAN	145 (15)
LY294002		chemical - kinase inhibitor		-0.65	8.43E-10	ACTA2,BIRC5,CASP3,CCL2,CCND1,CD274,CTNNB1,CXCL2,CXCL3,CXCL8,DUSP1,EFNB2,ETS1,F2R,FGF2,GBP1,GDF15,GEM,GJA1,GPD2,GSK3B,HBEGF,HMGB2,IGFBP3,IL1R2,IL6,ISG20,PIM1,PLAU,PTPRJ,RBL2,SCD,SGK1,SMC2,SNTB2,SOCS3,SPRY2,TOP2A,VCAN,ZNF267	157 (14)
beta-estradiol		chemical - endogenous mammalian		-1.362	9.8E-10	ACTA2,ADM,AREG,ARMT1,BCL2A1,BIRC5,BNIP3L,CASP3,CAST,CCL2,CCL20,CCNA1,CCND1,CD274,CDC42,CDCA7,CDKN1C,CNP,CTNNB1,CXCL2,CXCL3,CXCL8,DDIT4,DHCR7,DUSP1,DYRK2,EDN1,EFNB2,ELF3,ETS1,EXT2,FAM162A,FGF1,FGF2,FGFR2,FGFR3,GADD45A,GALNT7,GEM,GJA1,GPD2,GSK3B,HBEGF,HNRNPD,HOXA9,IGFBP3,IL1R2,IL24,IL6,IL7R,KITLG,KYNU,LIMA1,LRRC8A,MAL2,MMP7,NEDD4L,NRP2,PAPSS2,PARP1,PDZK1,PIM2,PLAT,PLAU,PLAUR,POLA1,PRKCH,PTPRK,PTTG1IP,RBL2,RXRA,SDC1,SFRP4,SGK1,SLC25A12,SLC2A3,SMC2,SMPD1,SNN,SOCS3,SPARC,SPRY2,TCEB1,TGFA,TGFB2,TGFBR1,TOP2A,UBL3,VAV3,VCAN,ZNF267	220 (19)
U0126		chemical - kinase inhibitor		-1.094	1.06E-09	ACTA2,AREG,BIRC5,CCL2,CCND1,CD274,CLDN2,CTNNB1,CXCL2,CXCL3,CXCL8,DDAH1,DUSP1,EDN1,ETS1,FGF2,FGFR2,GDF15,GJA1,GSK3B,HBEGF,HMGB3,IL1R2,IL24,IL6,JDP2,OSMR,PLAU,PLAUR,PTPRJ,SGK1,SIRPA,SLC2A3,SOCS3,TCF7L2,TGFA,TGFB2,TGFBR1,TMEM158	207 (21)
HGF		growth factor		0.527	1.6E-09	ACTA2,ADGRL2,AKAP12,BCL2A1,BIRC5,CCL2,CCND1,CDKN2C,CTNNB1,CXCL2,CXCL8,EDN1,EFNB2,ELF3,EPCAM,ETS1,FNDC3A,GEM,HBEGF,IGFBP3,IL6,ISG20,ITPR1,KITLG,OSMR,PIM1,PIM2,PLAU,PLAUR,PLPP3,PTHLH,SGK1,SMC2,SOCS3,SPRY2,TGFA,TGFB2,TMEM158,TRIP10	176 (21)

FSH		complex		0.021	1.63E-09	ACTA2,ADM,AKAP12,AREG,ARHGAP35,BCKDK,BNIP3L,CDKN1C,DAPK1,DHCR7,DUSP1,ELL2,FGF2,GBP1,GEM,IGFBP3,IL6,ISG20,ITPR1,KITLG,MAP1LC3B,MAP3K5,NEO1,PLAT,PTPRE,RAB27A,RASAL2,RGS4,SGK1,SMAD2,STAT1,TFRC,TGFB2,TGFBR1	209 (23)
HIF1A		transcription regulator		0.571	1.74E-09	ACTA2,ADM,AKAP12,BACE1,BIRC5,BNIP3L,CCND1,CD274,CXCL2,CXCL3,CXCL8,CXorf40A/CXorf40B,EDN1,ETS1,FAM162A,GJA1,HOXA13,IGFBP3,IL6,ITPR1,KIAA1217,MMP7,NT5E,PDHA1,PIM2,PLAC8,PLAUR,PRKCA,SLC2A3,SOCS3,TFRC,TGFA,TGFB2,ZNF267	139 (16)
AGT		growth factor		1.126	2.64E-09	ACTA2,ADM,CASP3,CCL2,CCND1,CREB5,CXCL2,CXCL3,CXCL8,DUSP1,EDN1,EFEMP1,EFNB2,ETS1,FBXO21,FGF2,GJA1,GSK3B,HBEGF,HMGB2,HOXA9,IGFBP3,IL6,KITLG,LPP,PARP1,PLAU,PTHLH,PURA,SGK1,SOCS3,TFRC,TGFA,TGFB2,TGFBR1,UCP2	219 (21)
PDGF BB		complex		1.633	2.77E-09	ACTA2,ADM,AKAP12,AREG,CALD1,CCL2,CCL20,CCND1,CXCL2,CXCL8,DUSP1,EDN1,ETS1,GADD45A,GDF15,GEM,GJA1,HBEGF,HOMER2,IL6,PIM1,PLAT,PLAU,SCD,SGK1,SLC2A3,SLC6A6,SOCS3,TNC,VCAN	204 (22)
TCF7L2	-2.08	transcription regulator	Inhibited	-3.16	0.0000191	BACE1,C5orf51,CCND1,CLDN2,CNP,CREB5,DEGS1,EPCAM,FGFR2,ICK,KAT2B,LBH,MMP7,MYO6,PLAT,POLR1D,RASGEF1B,REEP3,RNASE4,SNX30,STK17B,TSPAN15,UBE2G1	117 (7)
TREM1		transmembrane receptor	Activated	2.659	3.78E-09	ABL2,AREG,CCL20,CD274,CXCL2,CXCL3,CXCL8,EDN1,FERMT2,FNDC3A,GEM,HBEGF,IL6,NEDD4L,NT5E,PIM2,PLAC8,PLPP3,PTTG1IP,SLAMF7,SPRY2,TMEM158,YRDC	130 (18)
tretinoin		chemical - endogenous mammalian		-0.171	4.92E-09	ABHD2,ABI3BP,ADM,AKAP12,AREG,ARHGAP29,BACE1,BCL2A1,BIRC5,BNIP3L,C3AR1,CASP3,CCL2,CCL20,CCNA1,CCND1,CDC42,CDCA7,CDKN2C,CTNNB1,CXCL2,CXCL8,DHX33,DUSP1,EDN1,ELF3,EPCAM,ETS1,FGF2,FGF5,GDF15,GFRA1,GJA1,HBEGF,HNRNPC,HNRNPD,HOXA9,IGFBP3,IL24,IL6,KITLG,MAP3K5,MMP7,MRAS,NR2F2,PIM1,PLAT,PLAU,PLAUR,PLSCR1,PRKCA,PRKCH,PTHLH,RASAL2,RBL2,RXRA,SCD,SERPINB9,SERPINE2,SFRP4,SIRPA,SLAMF7,SLC6A6,SMPD1,SOD1,SPARC,STAT1,STAT2,TCEB1,TFRC,TGFB2,TGFBR1,TNC,TNFRSF19,TOP2A,TOR1B,UCP2,WSB1	266 (21)
hydrogen peroxide		chemical - endogenous mammalian		1.04	5.4E-09	ACTA2,BCL2A1,BIRC5,CASP3,CCL2,CCND1,CDKN2C,CTNNB1,CUX1,CXCL3,CXCL8,DDIT4,DHCR7,DUSP1,DUT,EDN1,ETS1,FGF2,GADD45A,GDF15,HBEGF,IL6,KITLG,MAPKAP1,PIM1,PLAUR,PTGER4,RAB27A,SELENOH,SGK1,SOD1,SPARC,SUSD6,TCF3,TFRC,UCP2	228 (22)
F2		peptidase		1.895	5.51E-09	ACTA2,B4GALT1,CALD1,CASP3,CCL2,CCL20,CCND1,CXCL3,CXCL8,DUSP1,EDN1,ELL2,ETS1,F2R,FGF2,HBEGF,IL6,LBH,MAP3K5,NUS1,PLAT,PLAUR,PPIF,SAMD4A,SLC2A3,TGFB2	143 (19)
ERK1/2		group		1.605	6.12E-09	AKR1B10,AREG,BCL2A1,CCL2,CCL20,CCND1,CXCL3,CXCL8,DAPK1,DUSP1,EDN1,EFNB2,ETS1,FGF2,FGFR2,GJA1,HBEGF,IGFBP3,IL6,PLAU,PLAUR,PSMB6,PTGER4,PTPRE,RAB4B,SGK1,SOCS3,VCAN	182 (21)
JUN		transcription regulator		-0.512	6.77E-09	AKAP12,BCL2A1,C3AR1,CCL2,CCND1,CD274,CLDN2,CXCL3,CXCL8,DICER1,DUSP1,EDN1,FGF2,GJA1,GSK3B,IGFBP3,IL24,	193 (18)

						IL6,IL7R,MMP7,MTHFR,PLAU,PLAUR,PTHLH,RXRA,SCD,SDC1,SERPINB9,SGK1,SLC6A6,SOCS3,SPARC,STAT1,TNC,VAV3	
actinomycin D		chemical drug		-1.522	0.000000016	ADM,BCL2A1,BIRC5,CASP3,CCL2,CCND1,CTNNB1,CXCL8,DUSP1,EDN1,ETS1,FPR1,GADD45A,HBEGF,IL1R2,IL6,IL7R,PLAU,PLAUR,PTHLH,RGS4,RIPK2,SOCS3,TGFA	165 (18)
F3		transmembrane receptor		0.852	2.12E-08	AREG,CCL2,CCNA1,CDC42,CXCL8,EFEMP1,FERMT2,FUT8,GJA1,IL6,MMP7,PAPOLA,PLPP3	124 (16)
AR		ligand-dependent nuclear receptor	Inhibited	-2.321	2.16E-08	ADM,BIRC5,CAST,CCNA1,CCND1,CDCA5,CTNNB1,CUX1,DEGS1,DHCR7,DNM1L,EDN1,FGFR2,GDF15,GJA1,IGFBP3,IL6,KITLG,MRAS,NAP1L1,OVOS2,PDIA5,PFKFB2,PLAT,PLAU,PRKCA,PTHLH,SGK1,SLC2A3,STAT1,TCF19,TGFB2,TMEM158,VCAN	229 (23)
NKX2-3		transcription regulator		0.123	2.38E-08	ACTA2,ADM,ARHGDIB,CERK,CXCL8,EDN1,FGF2,GBP1,GDF15,GNG12,IL7R,MMP7,MYO5A,NETO2,PAPSS2,PLSCR1,PTPRE,RPS23,SERPINE2,STAT1,STAT2,TMEM158,TRIM5	
Cg		complex		-0.102	2.67E-08	ACTA2,ADM,AKR1B10,AREG,CCL2,CXCL3,CXCL8,DHCR7,DUSP1,EFEMP1,EFNB2,GJA1,IGFBP3,IL1R2,IL6,MARCH3,PLAT,PLAU,PLAUR,PLPP3,RGS4,SDC1,SFRP4,SMAD2,SPRY2,SRXN1,TGFB2,TGFBR1,TMEM158,VCAN	209 (24)
MAP2K1		kinase		0.239	4.27E-08	ACTA2,AREG,BCL2A1,CCL2,CCND1,CD274,CLDN2,CXCL3,CXCL8,DUSP1,F2R,FGF2,IL6,PIM1,PLAUR,RAP2B,SERPINE2,SIRPA,SMAD2,TNC	176 (21)
OSM		cytokine	Activated	2.194	4.31E-08	ACTA2,ADH5,AKR1B10,AMACR,CCL2,CCL20,CCND1,CDA,CSNK2A2,CXCL2,CXCL3,CXCL8,DAPK1,DEGS1,DNM1L,EPCAM,FGF2,GBP1,HBEGF,HIPK3,HOXA9,IL1R2,IL6,ISG20,NEDD4,NEDD4L,OSMR,PDLIM5,PFKFB2,PLAU,PLLP,RNASE4,SMPD1,SOCS3,STAT1,TNC,TOP2A,UBE2G1	152 (18)
CCL5		cytokine		1.181	5.25E-08	CCL2,CXCL2,CXCL3,CXCL8,DDAH1,DUSP1,F2R,IL6,PLAUR,PPIF,SGK1,SOD1,STAT1	160 (15)
5-O-mycolyl-beta-araf-(1->2)-5-O-mycolyl-alpha-araf-(1->1')-glycerol		chemical - endogenous non-mammalian	Activated	2.673	5.45E-08	BCL2A1,CCL2,CCL20,CXCL2,CXCL3,CXCL8,DUSP1,HBEGF,KYNU,NT5E,PCSK5,SERPINE2,SLAMF7,SOCS3	152 (12)
KLF2		transcription regulator	Inhibited	-2.9	0.000000103	ADM,CCL2,CNP,CXCL2,CXCL8,EDN1,FGF5,GADD45A,IL6,KITLG,MAP3K5,PLPP3,PTHLH,PTPRJ,STAT1,TFRC,TGFB2,TGFBR1	145 (15)
Vegf		group		1.557	6.26E-08	ACTA2,ADGRL2,AKAP12,BCL2A1,BIRC5,CASP3,CDC42,CDKN2C,CTNNB1,CXCL8,EDN1,EFNB2,ETS1,FGF2,FNDC3A,GEM,HBEGF,IGFBP3,IL6,ISG20,ITPR1,KITLG,NR2F2,OSMR,OVOS2,PIM2,PLAU,PLAUR,PLPP3,PTHLH,SGK1,SMC2,SOCS3,TMEM158,TNC,VAV3	184 (23)
ERBB4		kinase		-0.031	6.35E-08	ACTA2,CADM1,CCL2,CCND1,CTNNB1,DUSP1,EFNB2,GADD45A,GJA1,HBEGF,PIM2,SERPINE2,SOCS3,TNC	144 (21)
calcitriol		chemical drug		1.655	0.00000007	AGPAT5,AREG,ARHGEF3,BIRC5,CCL20,CCNA1,CCND1,CDCA5,CXCL2,CXCL3,CXCL8,DDAH1,DNM1L,DUSP1,EDN1,FGFR3,GADD45A,GEM,HBEGF,IGFBP3,IL6,KIAA0101,LBH,LRPPRC	215 (18)

						,NDC1,PDHA1,PPIF,PRKCA,RXRA,SERPINB9,SMC2,SOCS3,SOD1,SPRY2,TCF19,TGFB2,UCP2,WSB1	
MEOX2		transcription regulator	Inhibited	-2.53	5.49E-08	CCL2,CCL20,CDKN1C,CXCL2,CXCL3,CXCL8,EDN1,FGF2,HBEGF,IL6	80 (7)
Interferon alpha		group		0.361	9.67E-08	BCL2A1,C3AR1,CASP3,CCL2,CCNA1,CCND1,CXCL2,CXCL3,CXCL8,CYB561,DDIT4,GBP1,GLS,IFITM2,IFITM3,IL6,ISG20,NT5E,PIM1,PIM2,PLAT,PRKACA,PTHLH,SERPINB9,SLC2A3,SOCS3,SPRY2,STAT1,STAT2,TRIM5	123 (16)
SOX4		transcription regulator	Inhibited	-2.377	0.0097	BIRC5,CNRIP1,CTNNB1,DICER1,KYNU,OVOS2,RNASE4,SERPINE2,SNN,TCF3,TNFRSF19	108 (7)
N-acetyl-L-cysteine		chemical drug		-1.264	0.000000125	ACTA2,ADM,BCL2A1,BIRC5,CASP3,CCL2,CCL20,CCND1,CXCL3,CXCL8,DICER1,EDN1,FGF2,HBEGF,IL6,IREB2,MAP1LC3B,PARP1,PLAU,PLAUR,TNC	172 (18)
mir-15		microrna	Activated	2.426	0.000000126	BACE1,BIRC5,CCND1,CDC42,DICER1,FGF1,FGF2,IL6,PIM1,PURA,UCP2	86 (7)
CEBPB		transcription regulator		0.664	0.000000144	ACTA2,AKR1B10,ARL6,BCL2A1,CCL2,CCND1,CTNNB1,CXCL2,CXCL3,CXCL8,DAPK1,DEGS1,DHCR7,EFNB2,FGFR2,GADD45A,GSK3B,IFITM3,IGFBP3,IL24,IL6,PLAUR,PRKAR2B,RGS4,SAA2,SCD,SGK1,SMAD2,SOCS3,TNFRSF19,VCAN	164 (19)
SB203580		chemical - kinase inhibitor	Inhibited	-2.439	0.000000144	ACTA2,ARHGDIB,BIRC5,C3AR1,CCL2,CCL20,CCND1,CXCL3,CXCL8,DUSP1,EFEMP1,GADD45A,GJA1,IGFBP3,IL6,ISG20,PLAT,PLAU,PLAUR,PTHLH,RIPK2,SERPINB9,SGK1,SOCS3,SPARC,STAT1,STK17B,TGFB2,UCP2	190 (18)
EREG		growth factor		0.526	0.000000146	AREG,CXCL3,FGF2,HBEGF,IL6,TGFA,TNC	182 (18)
methylprednisolone		chemical drug	Activated	2.126	0.000000162	ABCC9,ADGRL2,CCND1,CNP,CSNK2A1,CXCL3,DDIT4,DUSP1,GADD45A,IL6,ITPR1,KCNJ16,MAP1LC3B,MDFIC,NAA15,NAP1L1,NFIA,PLAT,PLAU,PLAUR,PLLP,PRKACA,RBL2,SCLY,SDC1,SERPINB9,SGK1,SIRPA,SLC2A3,SLC37A4,SLC39A1,SNN,SPARC,STAT1,TFRC,TINAGL1,TOP2A	166 (18)
NDRG1		kinase	Activated	2.116	0.00000019	CASP3,CCND1,CTNNB1,CXCL2,CXCL3,CXCL8,MAP1LC3B,PARP1,SMAD2	125 (15)
VEGFA		growth factor		-0.311	0.000000203	ADH5,BCL2A1,BIRC5,CASP3,CCL2,CCND1,CXCL8,EDN1,EFNB2,ETS1,FGF2,GBP1,GJA1,HBEGF,IL6,NR2F2,PARP1,PIM1,PLAT,PLAU,PLPP3,PRKCA,SPARC,TOMM22	166 (17)
TLR7		transmembrane receptor		1.453	0.000000216	BCL2A1,CCL2,CCL20,CD274,CREB5,CXCL2,CXCL3,CXCL8,FGF2,HIVEP2,IL6,ISG20,PLAT,PLAU,STAT1,STAT2,TRIM38	113 (14)
IL17A		cytokine	Activated	2.765	0.000000223	ACTA2,AREG,BCL2A1,BIRC5,CCL2,CCL20,CCND1,CD274,CXCL2,CXCL3,CXCL8,FGF2,GADD45A,HBEGF,IL6,ITPR1,OSMR,PLAU,SOCS3,TGFA,TNC	170 (14)
FAS		transmembrane receptor		0.535	0.000000273	ACTA2,BCL2A1,BIRC5,CASP3,CAST,CCL2,CCL20,CXCL2,CXCL3,CXCL8,DGCR2,FPR1,GBP1,GLIPR1,IL6,IMPA2,ITPR1,MYO5A,PDLIM7,PLAU,PPP1CC,PTGER4,SDC1,SERPINB9,SNTB2,SORL1,STK17B,TFRC,TNC	138 (13)
estrogen receptor		group	Inhibited	-2.286	0.000000316	CALD1,CCNA1,CCND1,CXCL8,DICER1,EDN1,ETS1,FGF1,FGF5,FGFR2,FGFR3,HBEGF,IL6,NT5E,PLAU,PLAUR,SPARC,TGFA,TGFB2,TGFBR1,TNC,TRIP10	220 (17)
RASSF1		other		-0.709	0.000000345	AREG,CASP3,CCND1,EFEMP1,EFNB2,FGF2,GDF15,HBEGF,IGFBP3,MAP3K5,MRAS,SPANXD (includes others),TMEM158	172 (18)

decitabine		chemical drug		0.262	0.000000346	ADGRL2,AKAP12,ARHGDIB,CADM1,CCNA1,CCND1,CDA,CDKN1C,CXCL3,DAPK1,DUSP1,FGFR3,GDF15,GFRA1,HBEGF,HNRNPD,HOXA9,IGFBP3,IL6,IL7R,MECP2,MMP7,PTPRG,RNASE4,SGK1,SLC2A3,SOCS3,SPARC,STAT1,TFRC,TGFB2,TGFBR1,TOP2A,VCAN	215 (24)
Jnk		group		0.279	0.00000043	ACTA2,CASP3,CCL2,CCND1,CLDN2,CXCL3,CXCL8,DUSP1,EDN1,ETS1,GADD45A,GDF15,GJA1,IL6,PLAT,PLAU,PLAUR,PLSCR1,SOCS3,VCAN	141 (21)
IL1B		cytokine		1.56	0.000000597	ACTA2,ADM,BCL2A1,CASP3,CCL2,CCL20,CD274,CTNNB1,CXCL2,CXCL3,CXCL8,DDIT4,DUSP1,EDN1,ELF3,FGF2,FGFR2,FGFR3,GADD45A,GBP1,GDF15,GEM,GJA1,GSK3B,HBEGF,IGFBP3,IL1R2,IL24,IL6,ISG20,MMP7,OSMR,PIM1,PLAT,PLAU,PLSCR1,PTHLH,RIPK2,RXRA,SAA2,SCLY,SDC1,SERPINB9,SLC37A4,SOCS3,SPARC,STAT1,TCFL5,VCAN	205 (19)
simvastatin		chemical drug		-1.607	0.00000064	ACTA2,BIRC5,CALD1,CASP3,CCL2,CCL20,CCND1,CXCL2,CXCL3,CXCL8,DDAH1,EDN1,F2R,GJA1,IGFBP3,IL6,MAP1LC3B,PLAT,SOCS3,STAT1	130 (17)
lysophosphatidic acid		chemical - other		1.377	0.000000687	ACTA2,CCL2,CCND1,CXCL2,CXCL3,CXCL8,DUSP1,EDN1,HYOU1,IL6,PLAU,PLAUR,PPP1R3B	128 (18)
COL18A1		other		0.448	0.000000687	CCL2,CCND1,CDKN2C,CTNNB1,DDIT4,EDN1,EFNB2,ETS1,F2R,FGF2,IL6,PLAU,STAT1	176 (19)
HS6ST1		enzyme		0.811	0.000000706	CXCL8,FGF2,IL6,SMAD2,SPRY2	141 (15)
FOXO1		transcription regulator		0.853	0.000000767	AIFM2,BCL2A1,BIRC5,CCL20,CCND1,CDKN1C,CDKN2C,CXCL8,DAPK1,DDIT4,EDN1,EFHD1,FBXO21,GADD45A,GPD2,HYOU1,IL6,IL7R,ITGB6,PLSCR1,PSMB6,RBL2,SCD,SGK1,SPRY2,STAT2,TKT	164 (20)
CSF3		cytokine		0.547	0.000000822	BIRC5,C3AR1,CXCL3,CXCL8,EDN1,ETS1,FPR1,GADD45A,GJA1,HOXA7,IL6,KITLG,PIM1,PLSCR1,PRKCA,RAB27A,SOCS3,TFRC	158 (16)
PLCE1		enzyme	Activated	2.425	0.000000894	CCL2,CCL20,CXCL2,CXCL3,CXCL8,IL6	123 (17)
IFNG		cytokine		-0.717	0.000000941	ACTA2,ADM,ARL6,ATG13,BCL2A1,CASP3,CCL2,CCL20,CCNA1,CCND1,CD274,CTNNB1,CXCL2,CXCL3,CXCL8,CYB561,DAPK1,DEGS1,DUSP1,EDN1,EFNB2,F2R,FGF1,FGF2,GAL3ST1,GBP1,GDF15,GJA1,GLS,HBEGF,IFITM2,IFITM3,IL6,IL7R,IREB2,ISG20,ITPR1,KITLG,KYNU,MRAS,NF1,NLRP3,PIM1,PIM2,PLAU,PLAUR,PRKCA,PTHLH,RAB27A,RAP2B,RIPK2,RNF114,SCLY,SERPINB9,SLC37A4,SLC6A6,SOCS3,STAT1,STAT2,TCF7L2,TFRC,TGFB2,TGFBR1,TMEM158	161 (14)
dihydrotestosterone		chemical - endogenous mammalian		-0.717	0.00000107	ADM,AREG,CASP3,CCND1,CDCA7,CSNK2A1,CTNNB1,F2R,FGF2,GTF2I,HECTD2,HOMER2,IGFBP3,IL6,KALRN,KPNA1,MMP7,NEDD4L,PLAU,PTGER4,PTHLH,RAB27A,RPS23,SCD,SERPINE2,SFRP4,SGK1,SLC2A3,SPARC,SSRP1,STBD1,TGFB2,TGFBR1,TKT,VCAN	260 (22)
miR-155-5p (miRNAs w/seed UAAUGCU)		mature microrna		-1.065	0.00000111	ARL5B,ATP6V1C1,CCL20,CCND1,CTNNB1,CUX1,CXCL2,CXCL3,CXCL8,ETS1,IL6,MSI2,NT5E,PDLIM5,PTPRJ,SMAD2,TCF7L2	82 (7)

PTEN		phosphatase		-0.802	0.00000118	ADM,BIRC5,CCND1,CD274,CTDSPL,CTNNB1,CXCL2,CXCL8,CYB561,DEGS1,DUSP1,EDN1,EFNB2,ETS1,GTF2I,IGFBP3,IL6,PAPOLA,PARP1,PDHA1,PIM1,PLAU,PTPRK,RBL2,SCD,SDC1,SMAD2,SOCS3,SPRY2,TGFA,VAV3	176 (18)
MAPK14		kinase		1.843	0.00000125	ACTA2,AREG,BACE1,CCL2,CCND1,CXCL8,DUSP1,EFEMP1,GADD45A,GJA1,IL6,KITLG,PLAU,PLAUR,SGK1,SOCS3,SOD1,TOP2A	144 (20)
TNFSF11		cytokine		1.823	0.00000129	BCL2A1,C3AR1,CCL2,CCND1,CTNNB1,CXCL3,CXCL8,DUSP1,ETS1,FPR1,IL6,JDP2,PIM1,PLAUR,PTGER4,PTPRE,SDC1,SERPINB9,SIGMAR1,SOCS3,SRXN1,STAT1	164 (19)
F7		peptidase		1.98	0.00000149	CXCL2,CXCL8,FGF5,GADD45A,HBEGF,IL6,PAPOLA,PLAUR	177 (19)
cigarette smoke		chemical toxicant		0.245	0.00000157	ACTA2,ADM,AKR1B10,AOX1,AREG,BIRC5,CASP3,CCL2,CCND1,CXCL2,CXCL3,CXCL8,DDIT4,DICER1,IL6,KITLG,MAP1LC3B,PRKCA,STAT1,TGFBR1	207 (20)
E2F1		transcription regulator	Inhibited	-2.358	0.000201	BIRC5,CALD1,CASP3,CCND1,CDKN1C,CDKN2C,CRKL,CTNNB1,DLEU2,DUSP1,DUT,EI24,FGF2,FGFR2,FGFR3,HMGB2,HN1,HNRNPD,HOXA9,KIAA0101,MAP3K5,POLA1,PPP1R8,STK17B,TCF3,TOP2A,UCP2	170 (14)
CSF2		cytokine		0.503	0.00000164	ATXN1,BCL2A1,BIRC5,CCL2,CCND1,CDCA5,CDKN2C,CXCL2,CXCL8,EDN1,EPCAM,F2R,GDF15,HBEGF,IFITM3,IL24,IL6,NLRP3,OSMR,PIM1,PIM2,PLAU,PPIF,PTGER4,RIPK2,SERPINB9,SGK1,SLAMF7,SMC2,SOCS3,TOP2A	203 (18)
F2RL1		g-protein coupled receptor		1.563	0.00000172	ACTA2,AREG,CCL2,CXCL8,FGF5,HBEGF,IL6,KITLG,TGFA,TSPAN15	142 (20)
oblimersen		biologic drug		0.632	0.00000172	ADM,ATG13,CXCL8,DUSP1,EFNB2,GADD45A,IL24,PRKCA,RNF114,STAT1	
FOXO3		transcription regulator		-0.168	0.00000179	BIRC5,BNIP3L,CCNA1,CCND1,CDKN1C,CSNK2A2,CXCL8,DDIT4,DNM1L,FGFR2,GADD45A,GTF2I,IL6,MYO6,NT5E,PLAU,RBL2,RTN4,SGK1,SOD1,TGFB2,UCP2	216 (20)
cisplatin		chemical drug		0.554	0.0000018	ACTA2,ANGEL2,ATXN1,BCL2A1,BIRC5,BNIP3L,CASP3,CCL2,CCND1,CTNNB1,CXCL3,CXCL8,DDIT4,DICER1,DUSP1,EDN1,EI24,ELF3,GADD45A,GDF15,IGFBP3,IL6,MAP1LC3B,MBNL2,NEO1,NF1,PARP1,PLAT,PRKCA,RXRA,SLC2A3,SLC6A6,SMPD1,SOCS3,SOD1,STK17B,TOP2A,UCP2,WDR4	198 (19)
prostaglandin E2		chemical - endogenous mammalian		0.72	0.00000192	ACTA2,AREG,BIRC5,CASP3,CCL2,CCL20,CCND1,CXCL3,CXCL8,DUSP1,ETS1,F2R,FGF2,GCNT1,GJA1,IL1R2,IL6,IL7R,NT5E,PLAU,PTGER4,SOCS3,TGFA,UCP2	179 (22)
TP73		transcription regulator	Inhibited	-2.273	0.0000847	ACTA2,BIRC5,CADM1,CASP3,CCL2,CDKN1C,CTNNB1,CXCL2,CXCL3,DDIT4,FGF2,FGFR3,GADD45A,IGFBP3,IGSF3,IL6,LBH,MIR22HG,PPP4R2,SERPINE2,TSPYL1,UBL3	182 (20)
E2F3		transcription regulator		-0.961	0.00000235	BIRC5,C1orf198,CCL20,CCNA1,CCND1,EDN1,ELF3,FAM102A,FGF2,FGFR2,HMGB2,KIAA0101,MAL2,POLA1,PPP1R8,TM9SF2	136 (7)
NFKBIA		transcription regulator		0.834	0.00000236	BCKDK,BCL2A1,CCL2,CCL20,CCND1,CTNNB1,CXCL2,CXCL3,CXCL8,FGF2,GADD45A,IL6,IL7R,ITPR1,JDP2,LIMA1,PDHA1,PIM1,PLAT,PLAU,RGS4,SDC1,SERPINE2,SGK1,SOCS3,SOD1,SORL1,TFRC,TGFB2,TNC	164 (19)

SELP		transmembrane receptor	Activated	2.138	0.00000246	BCL2A1,CCL2,CXCL2,CXCL8,IL1R2,IL6,PLAUR,SERPINB9	156 (16)
SERPINE1		other		-0.547	0.00000246	ACTA2,CASP3,CXCL2,CXCL8,FGF2,IL6,PLAU,PLAUR	211 (20)
DUSP1	2.254	phosphatase	Inhibited	-2.163	0.00000266	CCL2,CCL20,CXCL2,CXCL3,CXCL8,DUSP1,GDF15,IL6,ISG20,PLAT,PLAUR,PTPRK,TGFB2	141 (16)
TGFBR2		kinase		0.169	0.00000278	ACTA2,BIRC5,CCND1,CTNNB1,CXCL2,DYRK2,EXT2,FGF5,GJA1,IL1R2,IL6,PTHLH,RBL2,SLC2A3,SOCS3,SPARC,TGFB2,TGFBR1	191 (21)
let-7a-5p (and other miRNAs w/seed GAGGUAG)		mature microrna		0.799	0.0000028	ACTA2,BIRC5,CASP3,CCND1,DICER1,FNDC3A,HYOU1,KCNJ16,NEDD4,POM121/POM121C,RBM19,SCD,SIGMAR1,SMC1A,SPCS3,TGFBR1	
NFkB (complex)		complex		1.04	0.00000285	B4GALT1,BACE1,BCL2A1,BIRC5,CCL2,CCL20,CCND1,CD274,CSNK2A1,CTNNB1,CXCL2,CXCL3,CXCL8,EDN1,ELF3,ELL2,EPCAM,ETS1,FGF1,FGF2,FGF5,GADD45A,GDF15,IL24,IL6,IL7R,ITPR1,KYNU,PIM2,PLAU,PPIF,PRKACA,SCLY,SLC37A4,SOCS3,TFRC,TRIM38	178 (17)
IL2		cytokine		1.303	0.00000302	AREG,BCL2A1,CASP3,CCL2,CCND1,CD274,CDKN1C,CDKN2C,CXCL3,CXCL8,DAPK1,EDN1,ETS1,FGF2,FGFR2,GCNT1,GDF15,IL1R2,IL24,IL6,IL7R,ISG20,NETO2,PIM1,PIM2,PLAC8,PPP6C,PTHLH,PTPRJ,RXRA,SERPINB9,SLC2A3,SOCS3,STK17B,TGFBR1	170 (17)
TLR4		transmembrane receptor	Activated	2.608	0.00000321	ADM,AREG,CAST,CCL2,CCL20,CD274,CERK,CXCL2,CXCL3,CXCL8,EDN1,HBEGF,IFITM3,IL6,ISG20,MARCH3,PLAT,RIPK2,RXRA,SMPD1,SOCS3,STAT1,STAT2,TFRC,TRIM38,USP12	140 (13)
peptidoglycan		chemical - endogenous non-mammalian	Activated	2.6	0.00000333	BCL2A1,CASP3,CCL2,CCL20,CD274,CTNNB1,CXCL2,CXCL3,CXCL8,DUSP1,IL6,NLRP3,VEZF1	113 (14)
DKK1		growth factor		0.885	0.00000336	ACTA2,BACE1,BIRC5,CCND1,CTNNB1,EPCAM,FGF2,GSK3B,LBH,SPARC	191 (19)
FOS		transcription regulator		-0.251	0.0000037	AGPS,ASAP1,B4GALT1,C3AR1,CADM1,CASP3,CAST,CCL2,CCND1,CLDN2,CXCL8,EDN1,FGF2,FMN1,GJA1,GSK3B,HIPK3,IL6,KITLG,MMP7,PLAT,PLAU,PLAUR,RGS4,RXRA,SCD,SDC1,SERPINB9,SERPINE2,SFRP4,SIRPA,SNN,SOCS3,VAV3	169 (15)
SYVN1		transporter		-1.291	0.00000377	CCND1,CDA,CRTAP,CYB561,DPYD,DUSP1,EXT2,IFITM2,IL7R,NDFIP2,PLPP3,PTPRJ,SLC2A3,SLC6A6,TFRC	
IL1		group	Activated	2.636	0.00000391	AREG,CCL2,CCL20,CXCL3,CXCL8,DUSP1,EDN1,ELF3,FPR1,GJA1,GLS,IL1R2,IL6,KITLG,KYNU,MMP7,NRP2,RXRA,SAA2,SLC2A3,SOCS3,SPARC,TGFBR1,TNC,VCAN	197 (20)
9,10-dimethyl-1,2-benzanthracene		chemical toxicant		0.44	0.00000436	AREG,BIRC5,CCND1,CXCL2,CXCL3,GADD45A,HBEGF,IL6,TGFA	111 (13)
Nfat (family)		group		1.772	0.00000436	B4GALT1,CALD1,CCL2,CXCL8,ELL2,HBEGF,ITPR1,LBH,NUS1,SAMD4A,SMAD2,TGFB2	58 (3)

P38 MAPK		group	Activated	2.456	0.00000437	BCL2A1,BIRC5,BNIP3L,CCL2,CCND1,CXCL2,CXCL3,CXCL8,DUSP1,EDN1,ETS1,FGF2,GBP1,GJA1,IL6,PLAU,PLAUR,RGS4,SATB2,SGK1,SMAD2,SOCS3,STAT1,TCF3,TGFA,TOP2A	198 (21)
KLF4		transcription regulator		0.135	0.00000468	ACTA2,CASP3,CCND1,CDKN1C,CTNNB1,CXCL8,DUSP1,EFEMP1,EPCAM,EXT2,FGF5,IFITM3,IL6,NCKAP1,NF1,PLAT,PLAUR,TGFB2,TGFBR1,TNC,TNFRSF19	223 (20)
poly rI:rC-RNA		biologic drug		1.857	0.00000468	CCL2,CCL20,CD274,CNP,CTNNB1,CXCL2,CXCL3,CXCL8,DUSP1,EDN1,ELF3,FGF2,FPR1,GBP1,GDF15,IFITM3,IL6,ISG20,KYNU,MRAS,NLRP3,PIM1,PLAU,PLAUR,PTPRJ,RC3H2,RNF114,STAT1,STAT2	128 (12)
RBPJ		transcription regulator		-0.786	0.00000494	CCND1,CDCA7,DUSP1,ETS1,FGF1,FGF2,FGF5,GLS,GNAI1,IL6,IL7R,KITLG,SDC1,TGFB2,TNC	170 (20)
WWTR1		transcription regulator	Inhibited	-2.236	0.000633	CXCL2,CXCL3,CXCL8,GJA1,IL6,NEGR1	
Pdgf Ab		complex		0.393	0.00000504	AREG,BIRC5,CCND1,HBEGF,IL6,SCD	149 (21)
PGR		ligand-dependent nuclear receptor		0.464	0.0000051	AREG,ATXN1,CALD1,CCND1,CDKN1C,CTDSPL,EDN1,ELL2,GLS,HBEGF,PAPSS2,PIM2,PLAU,PPIF,PRKCH,SDC1,SGK1,SNTB2,SPRY2,STAT1,TNC,VCAN	209 (21)
MAPK7		kinase		0.854	0.00000522	BCL2A1,CCND1,CXCL2,CXCL3,CXCL8,DUSP1,EDN1,IL6,PLAT	127 (15)
doxorubicin		chemical drug		0.671	0.00000525	ADM,AREG,BCL2A1,BIRC5,BNIP3L,CASP3,CCND1,CXCL8,DUSP1,EDN1,ELF3,GADD45A,GDF15,GLIPR1,HBEGF,KIAA0101,LIMA1,MBNL2,MYO6,PANK1,RBL2,SLC6A6,SMAD2,SOD1,STAT1,TGFA,TOP2A	178 (21)
lenalidomide		chemical drug		0.28	0.00000626	AGPS,ATXN1,C2orf68,CCND1,CTNNB1,DLEU2,ELF3,FAM76B,ITPR1,LIMA1,NEK6,NETO2,PPIF,TCF3,TCF7L2,TMEM64,WDR4	
benzyloxycarbonyl-Leu-Leu-Leu aldehyde		chemical - protease inhibitor	Inhibited	-3.08	0.00000673	ARHGDIB,BIRC5,CCL2,CCND1,CDKN1C,CTNNB1,CXCL2,CXCL8,DUSP1,ETS1,FGF2,GNAI1,HMGB2,IL6,PARP1,PSMC2,RGS4,RXRA,SMAD2,SOD1,STAT1,STAT2,SUB1	186 (19)
TRADD		other		1.915	0.00000687	BCL2A1,CCL2,CXCL2,CXCL3,CXCL8,IL6,RIPK2	105 (16)
PGF		growth factor		1.729	0.00000687	BIRC5,CCL2,CCL20,CXCL8,EDN1,IL6,NRP2	145 (19)
BBI608		chemical drug		0.632	0.00000718	ATXN1,BIRC5,CTNNB1,CXCL8,EPCAM,FGFR2,GSK3B,KITLG,PLAUR,TGFBR1	
AGN194204		chemical drug		0.597	0.00000823	BCL2A1,BNIP3L,CDKN2C,DHCR7,DUSP1,GADD45A,GJA1,GNAI1,IFITM3,IL1R2,IL7R,PIM1,PLAC8,SCD,SMC2,TOP2A	
4-hydroxytamoxifen		chemical drug		-0.168	0.00000831	AREG,CCNA1,CCND1,CDCA7,DDIT4,EFEMP1,IGFBP3,IL6,IL7R,PDZK1,PRKCH,SERPINB9,SGK1,TGFA,TNPO1	186 (16)
TP63		transcription regulator		-0.469	0.00000912	ADM,AREG,CASP3,CAST,CCND1,CDC42,CDKN1C,CTNNB1,CXCL8,DDIT4,DICER1,EI24,F2R,FGFR2,FGFR3,GADD45A,HBEGF,IGFBP3,IL6,NT5E,PLAU,PTHLH,SMAD2,TGFB2,TINAGL1,TNC	188 (21)
silibinin		chemical drug		-0.005	0.00000953	BIRC5,CASP3,CCND1,CTNNB1,CXCL8,GSK3B,IGFBP3,IL6,PLAU,PLAUR	230 (25)
TGFA	-2.353	growth factor		0.146	0.0000102	AREG,BIRC5,CCL2,CCL20,CCND1,CTNNB1,CXCL2,CXCL8,IL6,PLAT,TGFA	198 (21)
FN1		enzyme		0.817	0.0000102	ACTA2,BIRC5,BNIP3L,CCL2,CCND1,CSNK2A1,CXCL2,CXCL3	197 (20)

						,CXCL8,FERMT2,FGF2,IL6,PLAU,PLAUR,SDC1,SOCS3,SPARC,TOMM22	
IL10		cytokine		-0.351	0.0000103	ACTA2,ADM,BCL2A1,CASP3,CCL2,CCL20,CD274,CXCL2,CXCL3,CXCL8,DUSP1,FPR1,IL1R2,IL24,IL6,IL7R,KITLG,NT5E,PDZK1,SOCS3,STAT1,TFRC,TINAGL1,TMEM158,VCAN	173 (17)
NFKB1		transcription regulator		-0.692	0.0000113	BCL2A1,CCL2,CCL20,CCND1,CXCL2,CXCL3,CXCL8,DICER1,DUSP1,ELF3,GBP1,GFRA1,GJA1,IGFBP3,IL6,ITPR1,MMP7,PLAU,PRKACA,STAT1	191 (15)
SMARCA4		transcription regulator		0.658	0.0000122	ABHD2,ACTA2,AREG,ARHGDIB,BCL2A1,BIRC5,BNIP3L,C15orf52,CCL2,CCND1,CNP,FAM167A,FGFR2,GADD45A,GBP1,HKDC1,HOXA7,IFITM2,IFITM3,IL6,IL7R,ITPR1,MMP7,NR2F2,NRP2,PLAT,PLAUR,PLPP3,PTHLH,PXDNL,SERPINE2,SPANXD (includes others),SPRY2,TGFB2,TPK1	219 (24)
SRC		kinase		0.289	0.0000139	CCL2,CCND1,CTNNB1,CXCL8,DUSP1,F2R,GBP1,GJA1,IL6,PLAU,PLAUR,PRKCA,SIRPA	175 (20)
AG490		chemical - kinase inhibitor		-0.082	0.0000145	ACTA2,BIRC5,CASP3,CCL2,CXCL8,EDN1,FGF2,IL6,PIM1,SOCS3,STAT1	161 (16)
PTH		other		1.299	0.0000147	AREG,CCL2,CCND1,CTNNB1,CXCL2,DUSP1,EFNB2,GJA1,GNG12,IGFBP3,IL6,LIMA1,PLAU,SFRP4,SOCS3	178 (22)
IFNA2		cytokine		0.033	0.0000159	BIRC5,CCL2,CNP,FGF2,GBP1,GEM,HBEGF,IFITM2,IFITM3,IL6,ISG20,NT5E,PLAT,PLSCR1,RBL2,SDC1,SERPINB9,SOCS3,STAT1	149 (20)
azoxymethane		chemical toxicant		-0.81	0.0000159	CASP3,CCND1,CTNNB1,GSK3B,IGFBP3,IL6,PARP1,PRKCA	126 (7)
methylselenic acid		chemical reagent			0.0000161	B4GALT1,BCL2A1,BIRC5,CADM1,CCND1,CDC42,CDKN1C,ELF3,GADD45A,GDF15,IGSF3,LMNB2,NEDD4L,POLA1,PRKCA,RAB28,SCD,SGK1,TOP2A,ZNF267	245 (22)
ACVRL1		kinase		0.816	0.0000178	CXCL8,EFNB2,GDF15,PLAT,PLAU,PLAUR,STAT1	
RCAN1		transcription regulator		-1.982	0.00475	CXCL8,GSK3B,IL6,SOD1	155 (15)
miR-124-3p (and other miRNAs w/seed AAGGCAC)		mature microrna	Activated	2.556	0.0000179	ARHGAP29,B4GALT1,CCL2,CDCA7,CDCA7L,DCTD,GINM1,GSK3B,MAGT1,MDFIC,NAA15,NEK6,PAPSS2,PDLIM7,POLR3G,PTTG1IP,TMEM248,TMEM263,TSPAN15	
Tgf beta		group		-0.143	0.0000179	ACTA2,CCL2,CCND1,CTNNB1,CXCL2,CXCL8,EDN1,FGF2,IGFBP3,IL6,MMP7,PLAT,PLAU,PLPP3,PTHLH,SMAD2,SOCS3,SPARC,TGFA	219 (19)
PPARG		ligand-dependent nuclear receptor	Inhibited	-2.012	0.0000185	ACTA2,ASAP1,BACE1,BIRC5,CCL2,CCND1,CDKN2C,CTNNB1,CXCL2,CXCL3,CXCL8,EDN1,ETS1,FGF1,GDF15,HIVEP2,HYOU1,IGFBP3,IL6,NR2F2,SCD,SDC1,SGK1,SOCS3,SOD1,SORBS1,TGFBR1,TKT,UCP2	164 (19)
TCF4		transcription regulator		-0.817	0.0000185	BIRC5,CCND1,CDKN1C,EDN1,FGF1,PLAU,SGK1,TCF7L2,USP12,VCAN	209 (13)
ALB		transporter		1.118	0.000019	ACTA2,CASP3,CCL2,CDKN1C,CXCL8,EDN1,IL6,SCD	185 (20)
ERK		group		0.349	0.000019	AREG,CCL2,CCND1,CTNNB1,CXCL2,CXCL8,DUSP1,EDN1,ET	166 (18)

						S1,FGF2,GDF15,HBEGF,IL6,KYNU,PLAU,RGS4,STAT1,TGFA, VCAN	
TERT		enzyme			0.000019	AMACR,ASAP1,BIRC5,BTBD11,CALD1,CCND1,CXCL8,DNER, EFEMP1,ETS1,F2R,FAM167A,FGF2,IL6	199 (24)
CITED2		transcription regulator		-1.96	0.00129	CCL2,CXCL8,DUSP1,FGF5,IL6	124 (18)
IL4		cytokine		0.664	0.0000197	ACTA2,ARMC6,ARNTL2,BIRC5,BNIP3L,CASP3,CCL2,CCL20, CXCL2,CXCL3,CXCL8,DDAH1,F2R,FAM126A,FAM162A,GJA1, HOMER2,IL1R2,IL24,IL6,IL7R,ISG20,KITLG,NABP1,NAP1L1,P IM1,PIM2,PLAU,PLSCR1,POLA1,PPP6C,PTHLH,SAMD4A,SIRP A,SLAMF7,SOCS3,STAT1,STAT2,TGFBR1,TINAGL1,TNC,XPO 7	139 (15)
curcumin		chemical drug		-0.057	0.0000206	ACTA2,BIRC5,CASP3,CCL2,CCND1,CTNNB1,CXCL3,CXCL8,D APK1,EDN1,ETS1,FGF2,GSK3B,IL6,NEO1,PIM1,PLAU,SLC37A 4,SOCS3,SOD1,TFRC,TGFBR1,TOP2A,UCP2	170 (16)
SELPLG		other		1.89	0.0000221	BCL2A1,CCL2,CXCL2,CXCL8,IL1R2,PLAUR,SERPINB9	147 (16)
Cdk		group		1.98	0.0000221	CCL2,CXCL2,CXCL8,IL6,UCP2	95 (7)
Pam3-Cys		chemical toxicant	Activated	2.189	0.0000225	CCL2,CXCL2,CXCL3,CXCL8,FPR1,IL6,PLAT,TGFA	126 (15)
Immunoglo bulin		complex		1.287	0.0000227	ADM,BCL2A1,C3AR1,CCL2,CD274,CDKN1C,CRISPLD2,CXCL 2,CXCL3,CXCL8,DUSP1,FPR1,IL6,NLRP3,PLSCR1,SIRPA,TCF7 L2,TFRC,VCAN	168 (18)
gefitinib		chemical drug		-0.271	0.0000234	AREG,BIRC5,CCL2,CCND1,CXCL8,FGFR2,GJA1,IL1R2,NRP2, OSMR,PLAUR,SLC2A3,SMC2,STAT1,TOP2A	200 (21)
EPAS1		transcription regulator		0.705	0.0000238	ADM,AKAP12,AREG,CCND1,CXCL2,CXorf40A/CXorf40B,EDN 1,GAL3ST1,GJA1,GLS,IGFBP3,IL6,ITPR1,PRKCA,SLC2A3,SOD 1,TGFA	174 (23)
E. coli B5 lipopolysac charide		chemical - endogenous non-mammalia n	Activated	3.607	0.0000239	ADH5,CCL2,CCL20,CCND1,CD274,CXCL2,CXCL3,CXCL8,DUS P1,IL1R2,IL6,IL7R,ISG20,MED20,NEDD4L,SDC1,SOCS3,SOD1, TGFB2,TGFBR1	141 (12)
5-N-ethylc arboxamid o adenosine		chemical reagent		0.485	0.0000243	ADM,CCL2,CCL20,CXCL8,EPCAM,FGF2,GADD45A,IL6,NT5E, SOCS3,SRXN1,VCAN	150 (17)
indomethac in		chemical drug		0.232	0.0000255	BACE1,BIRC5,CCL2,CCND1,CTNNB1,ELF3,FGF2,GDF15,IFIT M3,IL6,LIMA1,PIM1,PLAUR,PRKCA,PTGER4,RXRA,SDC1,UC P2,VCAN	217 (18)
EGR1		transcription regulator		0.31	0.0000267	ACTA2,AREG,CASP3,CCL2,CCND1,CXCL2,CXCL3,CXCL8,FG F2,GADD45A,GDF15,HBEGF,MAP1LC3B,PLAU,SGK1,SOD1	191 (19)
LDL		complex		0.34	0.000027	BCL2A1,CCL2,CCL20,CCND1,CTNNB1,CXCL2,CXCL8,DUSP1, GNAI1,GTF2I,HYOU1,IGFBP3,IL6,ITPR1,LASP1,PLAT,PLAU,S OCS3,TGFBR1	174 (16)
BCL3		transcription regulator		-1.949	0.0255	CCND1,CXCL3,CXCL8,PLAUR	
Bay 11-7082		chemical - kinase inhibitor		-1.676	0.0000289	BCL2A1,CCL2,CCND1,CXCL2,CXCL3,CXCL8,GJA1,IL6,PIM1	181 (16)
WNT5A		cytokine		1.121	0.0000295	AREG,ARHGDIB,CCL2,CCND1,CXCL2,CXCL8,IL6,RBL2,SDC1	161 (17)

						,SOCS3,SPARC,STAT1	
BTNL2		transmembrane receptor		-0.632	0.0000302	CDKN2C,CERK,EPCAM,GPD2,IFITM3,IL6,NT5E,SEMA4F,TGFBR1,TMEM64	
SAMSN1		other		0.905	0.0000312	CXCL2,EDN1,HBEGF,IL6,ISG20,PLAT,SDC1,SOCS3,STAT1,STAT2,USP12	81 (7)
Ni2+		chemical reagent	Activated	2.44	0.0000319	CCL2,CCL20,CXCL2,CXCL3,CXCL8,IL6	84 (7)
APC		enzyme		1.345	0.0000323	BIRC5,CCND1,CTNNB1,CXCL2,CXCL3,EDN1,FAM126A,IL6,MMP7,PRKCA,SGK1,TNFRSF19	234 (24)
PADI2		enzyme	Activated	2.219	0.0000324	CXCL2,CXCL3,CXCL8,IL6,RAB6B	79 (7)
ITGB4		transmembrane receptor		0.421	0.0000324	AREG,BIRC5,CCND1,IL6,SPARC	191 (23)
dexmedetomidine		chemical drug		-1.067	0.0000324	CASP3,CCL2,CXCL8,DDIT4,IL6	157 (22)
mitomycin C		chemical drug		0.476	0.0000331	ALYREF,BIRC5,CASP3,CCND1,CDC42,CXCL8,GADD45A,HBEGF,TULP4	153 (14)
medroxyprogesterone acetate		chemical drug		-0.064	0.0000339	BIRC5,CASP3,CCL2,CCND1,CDKN1C,ETS1,FGF2,IL6,PLAU,SCD,SGK1,TNC,VCAN	173 (20)
AKT1		kinase		-0.665	0.0000379	ACTA2,AKR1B10,BCL2A1,BIRC5,CASP3,CCL2,CCND1,CTNNB1,CXCL8,DHCR7,FGF2,GDF15,HIPK3,HMGB2,IL6,MUT,SCD,TGFB2,VCAN	167 (20)
10E,12Z-octadecadienoic acid		chemical - endogenous mammalian		0.167	0.0000431	CASP3,CCL2,CREB5,CXCL8,GDF15,IL6,SCD,SORBS1,UCP2	138 (19)
paclitaxel		chemical drug		0.632	0.0000432	ACTA2,AREG,BIRC5,CCL2,CCND1,CD274,CDA,CXCL2,CXCL8,DDAH1,GDF15,HBEGF,HMGB3,IGFBP3,IL6,OSMR,PLAU,PLAUR,SLC2A3,TGFA,TMEM158	195 (22)
IgG		complex		1.165	0.0000447	ADM,CCL2,CXCL8,DEGS1,DHCR7,DUSP1,EDN1,IFITM3,IL6,PIM1,PLAUR,PPIF,SLAMF7,SLC2A3,TNC	163 (22)
GDF15	-2.349	growth factor		-0.211	0.0000461	CCND1,GDF15,IL6,PLAU,PLAUR	200 (23)
POU5F1		transcription regulator		-0.56	0.0000489	BCL2A1,BIRC5,BNIP3L,CASP3,CCND1,CTNNB1,DAPK1,DUSP1,EFEMP1,EPCAM,EXT2,FAM208A,FGF5,GADD45A,IL6,NCKAP1,NR2F2,PARP1,RIPK2,SIRPA,TGFB2,TNFRSF19	141 (7)
SP3		transcription regulator		-1.941	0.00000495	ACTA2,ADH5,AKAP12,BIRC5,CCL20,CCND1,CDKN2C,DUSP1,F2R,GDF15,IGFBP3,PLAU,PLAUR,SGK1,SLC2A3,SPARC,STAT1,TGFBR1,TNC	202 (19)
PLAU	-2.144	peptidase		1.807	0.0000555	ACTA2,CCL2,CCND1,CXCL3,GDF15,GJA1,IL6,PLAU,PLAUR	209 (21)
HA900		chemical reagent		0.254	0.0000574	CCL2,CXCL3,KITLG,SOCS3	
BQ 123		chemical drug	Inhibited	-2	0.0000574	CCL2,CXCL2,GJA1,IL6	137 (20)
deoxycholate		chemical - endogenous mammalian		-1.375	0.0000578	CASP3,CCND1,CXCL8,GJA1,GLS,IL6,PLAU,PLAUR	117 (17)
H2AFY		other		-0.239	0.0000581	CDKN1C,CDKN2C,ETS1,GADD45A,PARP1,PLAU,SPARC	
DACH1		transcription regulator		-1.937	0.0000581	CXCL3,CXCL8,EFEMP1,FGF2,FGF5,IGFBP3,IL6	140 (11)
progestero		chemical -		0.971	0.0000583	ACTA2,ADH5,ADM,AREG,CADM1,CASP3,CCL2,CCND1,CTDS	189 (20)

ne		endogenous mammalian				PL,CXCL8,DICER1,ELL2,F2R,FGFR2,GJA1,HBEGF,IGFBP3,IL6,ISG20,MMP7,PDHA1,PIM2,PLPP3,PTGER4,RNASE4,RTN4,SCD,SFRP4,SGK1,SLC2A3,SMAD2,TGFB2,TGFBR1	
butyric acid		chemical - endogenous mammalian		0.544	0.0000587	BCL2A1,BIRC5,CASP3,CCL20,CCND1,CDC42,CDKN1C,CXCL8,DAPK1,DUSP1,GADD45A,HMGB2,IFITM2,IGFBP3,IL24,IL6,MMP7,PLAT,PLAU,PLSCR1,PRKACA,RXRA,SGK1,SMPD1,SOCS3,STAT2,TOP2A	195 (20)
triclosan		chemical drug	Activated	2	0.0000638	ACTA2,AREG,IL6,MECP2,PLAU	186 (17)
RAF1		kinase		0.304	0.000064	AKAP12,AREG,CCND1,CTNNB1,CXCL3,HBEGF,HMGB3,IGFBP3,IL6,LPGAT1,OSMR,PLAT,PLAU,PLAUR,PTHLH,SDC1,SPRY2	176 (20)
CCL11		cytokine		1.149	0.0000667	BIRC5,CCL2,CXCL2,CXCL3,CXCL8,FGF1,FGF5,IL6	132 (17)
NKX3-1		transcription regulator			0.0000667	CTNNB1,ETS1,IGFBP3,PIM1,PTPRK,SDC1,SMAD2,VAV3	
IRF7		transcription regulator		-1.902	0.000457	CCNA1,DNAJA1,GBP1,IFITM2,IFITM3,ISG20,PLAC8,PLSCR1,RIPK2,STAT1,STAT2,TOR1B,TRIM5	128 (15)
SB 216763		chemical toxicant		-1.472	0.0000692	CCL2,CCND1,CTNNB1,CXCL8,IL6,PLAU,SCD	162 (18)
IL6	3.238	cytokine		-0.572	0.0000733	AREG,ARL6,BIRC5,CASP3,CCL2,CCL20,CCNA1,CCND1,CLDN2,CTNNB1,CXCL2,CXCL3,CXCL8,DUSP1,FGF2,GADD45A,IFITM3,IGFBP3,IL6,IL7R,ITPR1,KIAA0101,MMP7,MRAS,PIM1,PLAT,PLAU,PTGER4,RAB27A,SAA2,SGK1,SOCS3,STAT1,TFRC,TGFA,TNC,TOP2A	144 (19)
PELI2		other			0.0000747	CXCL2,CXCL8,IL6	160 (16)
HS6ST2		enzyme			0.0000747	CXCL8,FGF2,IL6	140 (15)
3,6-bis(1-methyl-4-vinylpyridium)carbazole diiodide		chemical reagent			0.0000747	BIRC5,CTNNB1,MMP7	102 (7)
3,6-bis(4-methyl-2-vinylpyrazinium)carbazole		chemical reagent			0.0000747	BIRC5,CTNNB1,MMP7	102 (7)
H89		chemical - kinase inhibitor		-0.637	0.0000753	AREG,CCNA1,CCND1,CXCL8,DUSP1,FGF2,GJA1,IL6,PLAU,SDC1,SIGMAR1,TGFA,UCP2	164 (19)
S100A8		other		1.187	0.0000765	AKAP12,AREG,CCL2,CCL20,CCND1,CD274,CXCL2,CXCL3,CXCL8,DDIT4,EPCAM,IL6,PLAU,SGK1,VCAN	123 (15)
capsaicin		chemical drug		1.204	0.0000767	CASP3,CCND1,CXCL3,CXCL8,GDF15,KITLG,RXRA,TGFB2	159 (18)
IL17F		cytokine	Activated	2.403	0.0000815	CCL2,CCL20,CXCL2,CXCL3,CXCL8,IL6	143 (16)
lysophosphatidylcholine		chemical - other		1.685	0.0000819	CCL2,CXCL8,GJA1,HBEGF,IL6,PLAU,PLAUR	130 (18)
HLX		transcription regulator		-1.664	0.000214	AREG,CDKN1C,CXCL8,GDF15,KYNU,PLXNA1	
HNF1A		transcription regulator		-1.579	0.0495	ABCC9,CCND1,CLDN2,CTDSPL2,ELF3,FCAMR,FUT8,GNG12,PFKFB2,RNASE4,SGK2,SLC37A4,SOCS3,TBPL1,TFRC,TMED1	

						0,TROVE2,UCP2	
hemoglobin		complex		1.285	0.0000865	ADM,CXCL8,EDN1,IL6,TFRC	200 (22)
vemurafenib		chemical drug		0.557	0.0000865	BIRC5,CD274,CXCL8,IL6,SPRY2	151 (16)
hydrochloric acid		chemical - endogenous non-mammalian		-0.577	0.0000865	CCL2,CXCL2,CXCL3,CXCL8,IL6	164 (16)
MAP3K1		kinase		0.069	0.000088	CCND1,CXCL8,DUSP1,PLAU,PLAUR,RGS4,TNC,TOP2A	161 (19)
anisomycin		chemical - endogenous non-mammalian		-0.342	0.000088	BACE1,CXCL8,DUSP1,GJA1,IL6,PLAU,PLAUR,SDC1	152 (18)
IGF1		growth factor		-1.278	0.0000883	ACTA2,ADM,BCL2A1,BIRC5,CASP3,CCND1,CNP,CTNNB1,CXCL8,DDIT4,EDN1,EFNB2,GPD2,IFITM3,IGFBP3,IL6,LASP1,OSMR,PARP1,PIM1,PLAU,PLAUR,SCD,SOCS3,UBE2G1	219 (20)
gemfibrozil		chemical drug		-1.529	0.0000896	CCND1,CNP,GADD45A,IL6,NAP1L1,PCSK5,RTN4,SCD,SOCS3	150 (15)
resveratrol		chemical drug		-0.178	0.0000916	ACTA2,BCL2A1,BIRC5,CASP3,CCL2,CCNA1,CCND1,CTNNB1,CXCL2,CXCL8,DAPK1,EDN1,GDF15,IGFBP3,IL6,IL7R,PLAU,SOD1,TFRC,TGFB2	176 (16)
Pdgfr		group	Activated	2	0.0000937	AREG,CCL2,HBEGF,TNC	128 (17)
anacardic acid		chemical - endogenous non-mammalian		-0.218	0.0000937	BIRC5,CXCL8,EDN1,PLAT	74 (7)
edaravone		chemical drug		-1	0.0000937	CASP3,CCL2,CXCL3,IL6	156 (16)
reactive oxygen species		chemical toxicant	Activated	2.043	0.0000992	ACTA2,CASP3,CCL2,CXCL8,EDN1,ETS1,FGF2,GADD45A,HBEGF,IL6,UCP2,ZNF267	191 (19)
mir-8		microrna		-1.037	0.0001	ABL2,CTNNB1,ETS1,KITLG,PTHLH,SMAD2,SPRY2,TGFB2,TGFBR1	
N-nitro-L-arginine methyl ester		chemical drug		-0.582	0.000109	ADM,CASP3,CCL2,CXCL2,CXCL3,CXCL8,GJA1,IL6,IREB2,SOD1	121 (16)
15-deoxy-delta-12,14-PGJ 2		chemical - endogenous non-mammalian		0.443	0.000112	ACTA2,BIRC5,CASP3,CCL2,CCND1,CXCL8,GADD45A,GDF15,IL6,MAP1LC3B,PARP1,PLAU,SOCS3,SOD1,STAT1	188 (18)
AGER		transmembrane receptor		1.053	0.000112	BACE1,CASP3,CCL2,CCND1,CTNNB1,CXCL3,CXCL8,IL6,TNC	148 (20)
FOSL1		transcription regulator		-1.524	0.000112	ADM,CCL2,CCND1,CXCL8,IL6,PLAU,PLAUR,SERPINE2,SPARC	155 (13)
RETN		other		1.364	0.000113	CCL2,CXCL3,EDN1,IL6,PLAT,SCD,SOCS3	170 (20)
advanced glycation end-produc		chemical - endogenous mammalian		0.692	0.000113	CASP3,CCL2,CXCL8,F2R,FGF2,GJA1,IL6	167 (20)

ts							
MAVS		other		0.058	0.000115	CXCL2,CXCL8,IFITM3,IL6,ISG20,SOCS3,STAT1,STAT2	118 (15)
alpha-tocopherol succinate		chemical drug		0.218	0.000115	BIRC5,CASP3,FGF1,FGF2,UCP2	60 (7)
MST1R		kinase		-0.714	0.000115	ACTA2,CCND1,CTNNB1,CXCL3,SMAD2	202 (23)
resolvin D1		chemical - endogenous mammalian	Inhibited	-2.164	0.000115	CCL2,CXCL2,CXCL3,CXCL8,IL6	140 (16)
Ras		group		1.318	0.000116	B4GALT1,CCL2,CCND1,CD274,CXCL8,EDN1,IL24,PLAU,PLAUR,SERPINE2,STAT1,STAT2	153 (16)
BMP7		growth factor		-1.944	0.000116	ACTA2,BIRC5,CCL2,CXCL8,EDN1,EPCAM,GJA1,IGFBP3,IL6,MAP3K5,SMAD2,SOCS3	160 (18)
FGFR1		kinase		0.178	0.000121	BIRC5,CCND1,FGF1,FGF2,FGF5,FGFR3,IL6,PLAU,PLAUR,SPARC	181 (21)
NR3C1		ligand-dependent nuclear receptor		0.069	0.000121	ABHD2,ADM,ARHGEF3,ATXN1,BNIP3L,CCL2,CCND1,CDKN1C,CXCL2,CXCL3,CXCL8,DAPK3,DDIT4,DEGS1,DNER,DUSP1,DUSP22,DUT,EDN1,ELMOD1,F2R,GADD45A,GEM,GLIPR1,IL24,IL6,IL7R,LRRC8A,NLRP3,RIPK2,RTN4,SERPINB9,SGK1,STK17B,TCF19	178 (20)
IFNB1		cytokine		-0.304	0.000125	CASP3,CCL2,CD274,CXCL2,CXCL8,DDX3Y,DICER1,F2R,FGF2,HMGB2,IL24,IL6,ISG20,RIPK2,RNASE4,SPRY2,STAT1,STAT2,TRIM38	117 (14)
PRKCA	2.221	kinase		0.974	0.000128	ARHGDIB,BNIP3L,CCL2,CCND1,CXCL2,CXCL3,ETS1,GDF15,HS2ST1,IGFBP3,TGFB2	157 (18)
etoposide		chemical drug		0.544	0.000129	BCL2A1,BIRC5,CASP3,CCNA1,CCND1,CD274,CXCL8,DDIT4,DUSP1,GADD45A,GDF15,SGK1,SLC2A3,TOP2A	254 (26)
SQSTM1		transcription regulator		0.863	0.000132	CXCL2,EDN1,HBEGF,IL6,MAP1LC3B,PLAT,USP12	160 (17)
WNT3A		cytokine		0.235	0.000133	ACTA2,BACE1,CCND1,CTNNB1,DDIT4,EDN1,FGF5,GSK3B,IL6,KITLG,LBH,NEK6,SPARC,TCF3,TGFB2,TMEM158,TNC,TNFRSF19	213 (20)
nicotine		chemical drug	Inhibited	-2.04	0.000134	BIRC5,CASP3,CCL2,CCND1,CXCL3,CXCL8,EDN1,FGF2,GJA1,IL6,MMP7,PLAT,PLAUR,PTHLH,STAT1	153 (17)
HMOX1		enzyme		-1.796	0.000139	ACTA2,CASP3,CCL2,CD274,CXCL2,CXCL3,CXCL8,FGF1,IL6,SPARC,TGFB2	132 (18)
J11-Cl		chemical reagent		-1.982	0.000144	CCL20,CXCL2,CXCL3,IL6	139 (18)
MAPK1		kinase		1.092	0.000148	BIRC5,CCL2,CCND1,CTNNB1,CXCL8,DUSP1,GBP1,GLS,IFITM3,IL6,ISG20,MECP2,NT5E,PLAU,PLSCR1,PTPRK,SPRY2,STAT1,STAT2,TMEM158,TRIM38,TRIM5	174 (21)
finasteride		chemical drug		1.342	0.00015	EDN1,IL24,IL6,TGFA,TGFB2	171 (12)
1-methyl-4-phenylpyridinium		chemical toxicant		0.424	0.00015	CASP3,CCND1,DDIT4,SOD1,TFRC	84 (7)
OSMR	2.523	transmembrane receptor		0.391	0.00015	BIRC5,IL6,OSMR,PIM1,SCD	131 (18)
salvin		chemical	Inhibited	-2.169	0.00015	CCL2,CCND1,CXCL8,IL6,RXRA	151 (20)

		toxicant					
TNFRSF1A		transmembrane receptor	Activated	2.178	0.000158	BACE1,CASP3,CCL2,CCL20,CXCL2,CXCL3,CXCL8,IL24,IL6,MMP7,SOCS3,TGFA	109 (15)
SP600125		chemical - kinase inhibitor		-0.766	0.00016	ADM,CASP3,CCL2,CCND1,CXCL2,CXCL3,CXCL8,DDIT4,GADD45A,IL6,MTHFR,PARP1,PLSCR1,RGS4,SCD,SOCS3	156 (19)
SMAD7		transcription regulator		-0.163	0.000183	ACTA2,AREG,CCL2,CDKN2C,EFEMP1,GADD45A,HBEGF,PLAT,SCD,TGFA,TGFB2,TGFBR1	193 (20)
[Lys15,Arg16,Leu27]VIP(1-7)GRF(8-27)		chemical reagent			0.000183	CCL2,CXCL8,IL6	
E2F2		transcription regulator		-1.4	0.00777	BIRC5,CCND1,CDKN2C,FGFR2,IL6,POLA1	131 (7)
ANGPT2		growth factor		0.341	0.000192	CASP3,EDN1,ETS1,EXT2,GSK3B,IL6,LMNB2,MMP7,PDIA5,PLAU,POLA1,PTHLH,SOD1,SRXN1,VCPIP1	189 (16)
ABT-737		chemical drug	Activated	2.236	0.000192	BCL2A1,CXCL3,CXCL8,GADD45A,IL6	194 (19)
GNAI3		enzyme	Activated	2.236	0.000192	CCL2,CXCL3,CXCL8,IL24,IL6	136 (19)
BTRC		enzyme		1.4	0.000192	BCL2A1,CCND1,CTNNB1,CXCL8,IL6	148 (16)
Collagen type IV		complex			0.000192	ACTA2,CCL2,DPYD,PLAU,PLAUR	145 (17)
RET		kinase		1.127	0.000193	CCL2,CCL20,CCND1,CXCL8,DNAJA1,GJA1,IL6,MMP7,PLAU,PLAUR,RTN4	123 (18)
EBF1		transcription regulator		-1.387	0.0268	GSK3B,IL6,PRKACA,PRKAR2B,SCD,SOCS3,STAT1,TCF3	
resiquimod		chemical drug	Activated	2.402	0.0002	BCL2A1,CCL2,CCL20,CREB5,CXCL2,CXCL3,CXCL8,FGF2,GDF15,HIVEP2,IL6,NLRP3,PLAT,PLAU	139 (14)
CSF1		cytokine		-0.734	0.0002	BIRC5,CCL2,CCND1,CTNNB1,CXCL2,CXCL3,DUSP1,F2R,GDF15,IL6,JDP2,PLAU,PTPRJ,STAT1	159 (18)
MYC		transcription regulator		-1.363	0.0000016	ADM,AKAP12,BCL2A1,BIRC5,CASP3,CAST,CCNA1,CCND1,CD274,CDCA7,CNP,CTDSPL,CTNNB1,CXCL8,DDIT4,DLEU2,DUSP1,EDN1,EFEMP1,EPCAM,EXT2,F2R,FGF5,FUT8,GADD45A,GJA1,GLS,HIVEP2,HNRNPD,IMPA2,IREB2,LIMA1,MMP7,MTHFR,NAP1L1,NCKAP1,PARP1,PDHA1,PDLIM7,PLAU,PLAUR,PLSCR1,RPS23,SERPINE2,SGK1,SHMT1,SLC2A3,SPARC,TCF3,TFRC,TGFB2,TKT,TNC,TNFRSF19,YRDC	245 (22)
SP1		transcription regulator		-1.333	3.48E-09	ABHD2,ACTA2,ADH5,AKAP12,BACE1,BIRC5,BNIP3L,CASP3,CCL2,CCL20,CCND1,CDKN2C,CSNK2A1,CXCL3,CXCL8,F2R,FGF2,GDF15,GJA1,HBEGF,IFITM3,IGFBP3,MECP2,NF1,PARP1,PIM1,PLAU,PLAUR,PRKAR2B,PRKCA,PTGER4,SERPINE2,SGK1,SLC2A3,SMPD1,SOD1,SPARC,STAT1,TGFB2,TGFBR1,TNC	196 (21)
IGFBP2		other		0.663	0.000205	CADM1,CASP3,DDAH1,EFEMP1,GDF15,IGFBP3,NF1	
herbimycin		chemical - kinase inhibitor		-0.342	0.000205	CCND1,CXCL8,DUSP1,F2R,IL6,PLAU,SIRPA	172 (20)
trichostatin A		chemical drug		0.643	0.000205	ADGRL2,AKAP12,AMACR,CASP3,CAST,CCNA1,CCND1,CDCA7,CDKN1C,CXCL3,CXCL8,DAPK3,DUSP1,ELF3,F2R,FGFR3,FUT8,GADD45A,HNRNPD,IGFBP3,IL24,IL6,LIMA1,MMP7,PIM1,PLAU,SDC1,SFRP4,SGK1,TOP2A,TRIM38	212 (22)
HSPB8		kinase		0.958	0.000212	CCL2,CXCL8,IL6,MAP1LC3B	151 (21)

BPIFA1		other		-1.98	0.000212	CCL20,CXCL2,CXCL3,IL6	
thalidomide		chemical drug		-0.404	0.000214	CXCL8,FGF2,GDF15,IL6,PIM1,PLAUR	195 (17)
IRF1		transcription regulator		-1.277	0.00128	CASP3,CCL2,CCL20,CCND1,CD274,CXCL2,CXCL3,CXCL8,IFITM3,IL6,STAT1,STAT2	134 (14)
REL		transcription regulator		-0.495	0.000222	AGPS,ATXN1,BCL2A1,BIRC5,CCL2,CCND1,CCNY,CRKL,CXCL8,DGCR2,DUT,GPT2,HBEGF,ICK,IL6,PHIP,SORBS1	190 (16)
MIF		cytokine		0.132	0.000226	ACTA2,C3AR1,CCL2,CCND1,CXCL2,CXCL3,CXCL8,DUSP1,F2R,IL6,IL7R	138 (19)
cocaine		chemical drug		-0.695	0.000226	CCL2,CXCL2,CXCL8,DUSP1,EFNB2,FGF2,GADD45A,IL6,MECP2,PARP1,PRKACA,SIGMAR1,STAT1,STAT2	167 (21)
Pdgf (complex)		complex		0.453	0.000228	CCL2,CCND1,CXCL3,EDN1,FAM189B,FGF2,GJA1,PLAU,PLAUR,SPARC	131 (18)
GFI1		transcription regulator		0	0.000228	CXCL8,F2R,GJA1,IL6,IL7R,KAT2B,MMP7,NT5E,RIPK2,STAT1	147 (14)
TFAP2A		transcription regulator		-0.816	0.000228	BIRC5,CXCL2,EFEMP1,F2R,GEM,HIPK3,PLAU,PLAUR,RBL2,SMPD1	193 (14)
troglitazone		chemical drug		-0.948	0.000229	ABHD2,ACTA2,BIRC5,CCL2,CCND1,CDCA7L,CDKN2C,CTNNB1,CXCL3,CXCL8,ETS1,GADD45A,GDF15,HIPK3,HMGB3,HMGN2,IL6,NR2F2,SCD,SDC1,SORBS1,TSN,UCP2	143 (20)
GAST		other		-1.065	0.000233	AREG,CCND1,CTNNB1,DNAJA1,HBEGF,HMGB2,HNRNPDL,TGFA,TNC	199 (23)
F2R	-2.094	g-protein coupled receptor		1.618	0.000237	CCL2,CCND1,CXCL3,CXCL8,DUSP1,F2R,GJA1,IL6	155 (20)
HNF4A		transcription regulator		-0.267	0.00024	ACTA2,AMACR,ARL6,ARMC6,ARMC8,ARMT1,BACE1,CCND1,CDCA5,CDCA7L,CLDN2,COASY,CRKL,CSNK2A1,CTDSPL2,CTNNB1,CXCL3,CXCL8,ELF3,EPCAM,FCAMR,FUT8,GDF15,GNG5,GSK3B,GTF2H3,GTF2I,HMGB2,HNRNPC,HSPA4L,IFITM2,IL6,LPGAT1,MAL2,MUT,NDC1,NR2F2,OSMR,PANK1,PAPOLA,PDIA5,PDZK1,PEX11B,PLSCR1,POLR3G,PPP1R3B,PPP4R1,PPP6C,PRKAB2,PTGES3,PTPRE,PTPRG,RBL2,RNASE4,RXRA,SAA2,SCD,SDC1,SGK1,SGK2,SH3BGRL2,SLC37A4,SLC39A1,SLC39A9,SMC1A,SMC2,SOD1,SPCS3,SRSF11,STAT1,TCF19,TCF7L2,TFRC,TM9SF2,TMEM30A,TNC,TROVE2,TSN,UCP2,VEZT,VIPAS39	
miR-1-3p (and other miRNAs w/seed GGAAUGU)		mature microrna		0.809	0.00024	ARHGAP29,CNOT6,FERMT2,GJA1,GPD2,LASP1,LRRC8A,MTMR12,NETO2,PDLIM7,PIM1,POLA1,POM121/POM121C,SRXN1,UST	
ilomastat		chemical drug		-1.206	0.000243	ACTA2,CCL2,CXCL3,CXCL8,HBEGF	188 (24)
CD3		complex		0.373	0.000244	ARHGDIB,BCL2A1,BIRC5,CASP3,CCL20,CCND1,CD274,CXCL8,DUSP22,ETS1,GBP1,HMGN2,HOMER2,HS2ST1,IL6,IL7R,ITPR1,NDFIP2,PRKACA,PTGER4,PTPRJ,RXRA,SEC14L1,SNRPB,SOCS3,SORL1,STAT1,SUSD6,TCF3,TFRC,TOP2A,TRIM5,TRIP10	136 (15)
ZEB1		transcription		-1.217	0.0255	MAL2,NRP2,PLAU,RBL2	

		regulator					
sirolimus		chemical drug		0.671	0.000249	ACTA2,ADM,ARHGDIB,BCL2A1,BIRC5,CASP3,CCND1,CDA,CSNK2A1,DDIT4,FPR1,IL6,MAP1LC3B,PDHA1,PIM1,PLAUR,PRKCA,PSMB6,RPS23,SCD,SLC2A3,SOCS3,SOD1,STAT1,TOP2A,UCP2	223 (18)
fulvestrant		chemical drug		0.442	0.000251	AREG,BIRC5,CAST,CCL2,CCND1,CDKN2C,CTNNB1,DDIT4,F2R,GADD45A,GJA1,RBL2,SERPINB9,SMPD1,SOD1,TFRC,TGFA,TGFB2	211 (18)
PI3K (complex)		complex		-0.05	0.000251	BIRC5,CASP3,CCL2,CCND1,CD274,CXCL8,DUSP1,ETS1,GJA1,HBEGF,IL6,IL7R,LASP1,MAP3K5,PIM1,PRKAR2B,RBL2,SGK1,SOCS3	175 (17)
dextran sulfate		chemical drug		0.743	0.000258	BIRC5,CDCA5,CTNNB1,CXCL2,CXCL3,CXCL8,EFNB2,FGF1,FGFR3,IFITM3,IL6,OSMR,PARP1,SMC2,SOCS3,TGFB2,TOP2A	139 (14)
calphostin C		chemical - kinase inhibitor		-1.294	0.000265	ACTA2,BIRC5,CCL2,CXCL8,DUSP1,ETS1,IL6,PLAU	141 (21)
fluticasone		chemical drug		1.357	0.000271	ADM,CCL2,CCL20,CXCL2,CXCL8,DDIT4,IL1R2,IL6,MDFIC,MMP7,PAPSS2,PLAC8,PLAU,STAT1	161 (18)
SATB1		transcription regulator		-1.145	0.000513	BCL2A1,CCND1,ETS1,FERMT2,GDF15,GNG4,GPT2,IL1R2,IL7R,KITLG,PTGES3,SGK1,TGFA	
TNFSF10		cytokine		1.065	0.000271	BIRC5,CASP3,CTNNB1,CXCL8,DPYD,IFITM2,IL6,PLAU,STAT1,TFRC	178 (22)
CDKN1A		kinase		-0.148	0.000273	ACTA2,BIRC5,CASP3,CCL2,CCND1,DUSP1,HMGB2,IL6,KIAA0101,LIMA1,MBNL2,RBL2,SMC2,TGFA,TOP2A,VEZT	180 (20)
ethanol		chemical - endogenous mammalian		0.765	0.000281	ACTA2,ADM,C3AR1,CASP3,CCL2,CCND1,CXCL8,DUSP1,EDN1,ELMOD1,GADD45A,GNAI1,HOMER2,IL1R2,IL6,PARP1,PLAT,SCD,SGK1,SRXN1,STAT1,TGFB2	215 (24)
EPO		cytokine		-0.802	0.000287	ARL6,BNIP3L,CASP3,EDN1,FGF2,FPR1,GDF15,HMGN2,IL6,KAT2B,PIM1,PRKCA,RPS23,SOCS3,SOD1,SSRP1,TFRC,TSN,UCP2	164 (18)
GNA15		enzyme			0.000295	ACTA2,AKAP12,CCL20,CXCL2,CXCL8,GADD45A,IL6,PLAT,SLC6A6,VCAN	115 (16)
1,2-dimethylhydrazine		chemical toxicant		-1	0.000299	BIRC5,CASP3,CCND1,GJA1	182 (14)
IL7		cytokine		0.181	0.000299	CASP3,CCL2,CD274,CXCL3,IL24,IL6,IL7R,PIM1,PIM2,PPP6C,SOCS3,TCF3	139 (18)
FASLG		cytokine		1.069	0.0003	BIRC5,CASP3,CCL2,CXCL8,IL6,TGFB2	130 (18)
GAPDH		enzyme		1	0.0003	CCL2,CCL20,DUSP1,GEM,IFITM2,STAT1	83 (11)
TFDP1		transcription regulator			0.0003	CASP3,CCNA1,CCND1,CDKN2C,FGFR2,TCF3	123 (7)
evodiamine		chemical - endogenous non-mammalian		1	0.000304	BCL2A1,BIRC5,CASP3,CCND1,CXCL8	114 (11)
ERG		transcription regulator		-1.134	0.00643	CTNNB1,CXCL8,ETS1,MAP3K5,MYO5A,PIM1,PLAT,PLAU,PLAUR,PLPP3,SPARC,TMEM263	177 (18)
homocysteine		chemical - endogenous		0.384	0.000311	CCL2,CCND1,CXCL8,FGF1,FGF2,GADD45A,IL6,MTHFR,SOCS3	127 (17)

		mammalian					
Akt		group		0.926	0.000313	ADM,BCL2A1,BIRC5,CCL2,CCND1,CD274,CDKN1C,CTNNB1,CXCL8,ETS1,GSK3B,IL6,IL7R,NRP2,PTGER4,SOCS3,VCAN	229 (20)
metribolone		chemical reagent		-0.983	0.000316	AKAP12,C1orf116,CCNA1,CCND1,CYB561,FPR1,GDF15,HOMER2,IFITM2,IL6,NEDD4L,PFKFB2,RAB27A,TM9SF2,VCAN	220 (22)
docosahexaenoic acid		chemical drug		-1.009	0.000318	BCL2A1,CXCL8,IL6,PLAT,RXRA,SCD,SDC1,SMPD1,SOCS3,SORL1,TGFB2,TGFBR1,UCP2	161 (16)
EFNA1		other		0.378	0.00033	CLDN2,ITGB6,NEDD4L,NT5E,PLAT,PTHLH,TCF3,TRIM5	
IL1A		cytokine		1.833	0.000335	CCL2,CCL20,CD274,CXCL2,CXCL3,CXCL8,FGF2,GBP1,IL1R2,IL6,KITLG,NR2F2,PLAU,RBL2,SAA2,SPARC	121 (14)
benzo(a)pyrene		chemical toxicant		-1.508	0.000335	BIRC5,CASP3,ELF3,FGFR3,GNAI1,HSPA4L,ITPR1,MAP3K2,PPIF,PRKACA,PRKCA,PTPRG,SFRP4,TGFB2,TKT,TOR1B	86 (7)
TLR3		transmembrane receptor	Activated	2.312	0.000344	CAST,CCL2,CCL20,CD274,CXCL2,CXCL3,CXCL8,DUSP1,EDN1,IL1R2,IL6,ISG20,SERPINB9,SOCS3,STAT1,TNC,TRIM38	117 (16)
RRP1B		other			0.000347	ANAPC13,AREG,BIRC5,CCND1,GADD45A,MRAS,PRKCA,RPL14,SERPINE2,TOP2A	
PLAUR	2.146	transmembrane receptor		0.314	0.000351	ACTA2,CCL2,CCND1,CXCL3,PLAU,PLAUR	140 (17)
STUB1		enzyme		-0.075	0.000351	ACTA2,ATXN1,BIRC5,CASP3,IL6,RBL2	211 (23)
XDH		enzyme		-0.294	0.000351	ACTA2,CXCL3,CXCL8,DUSP1,PLAU,PLAUR	144 (22)
Pam3-Cys-Ser-Lys4		chemical reagent	Activated	2.569	0.000355	AOX1,BCL2A1,CCL2,CD274,CXCL2,CXCL3,CXCL8,IL6,NLRP3,STAT1,TGFB2	118 (13)
blinatumomab		biologic drug			0.000359	CCL2,CXCL8,IL6	
STC1		kinase			0.000359	CXCL3,TGFB2,UCP2	
CBLB502		biologic drug			0.000359	CXCL2,CXCL3,IL6	78 (7)
emricasan		chemical drug			0.000359	ACTA2,CXCL2,CXCL3	
poly(U)RNA		chemical reagent			0.000359	CCL2,CXCL8,IL6	85 (11)
epigallocatechin-gallate		chemical drug		0.208	0.00037	BIRC5,CASP3,CCL2,CCND1,CTNNB1,CXCL3,CXCL8,EDN1,GADD45A,GJA1,IL6,MAP3K5,PLAU,PRKCA,STAT1,TFRC	161 (16)
NAMPT		cytokine	Activated	2.172	0.000376	CCL20,CXCL2,CXCL8,IL6,TGFB2	191 (18)
XIAP		enzyme		0.218	0.000376	BIRC5,CASP3,CCND1,CXCL8,IL6	166 (22)
VAV2		transcription regulator		-0.343	0.000376	AREG,CDC42,HBEGF,IL6,TGFA	161 (17)
PDGF-AA		complex			0.000376	ACTA2,AREG,FGF2,HBEGF,IL6	157 (13)
BAG1		other			0.000376	CCND1,GADD45A,NEDD4L,PLAU,RAB27A	158 (12)
ADRB		group		0.466	0.000391	ARHGEF3,BNIP3L,CASP3,CCND1,CXCL2,DDIT4,GADD45A,GDF15,LBH,RBL2,SMC1A,SRXN1	122 (7)
ADIPOQ		other		0.066	0.000391	BIRC5,CCL2,CCL20,CCND1,CXCL3,CXCL8,DUSP1,HBEGF,IL6,SCD,SLC2A3,UCP2	143 (19)
LMNB1		other			0.000395	DHCR7,GJA1,HBEGF,LMNB2,REEP5,SCD,TGFB2	
androgen		chemical drug			0.000406	CCND1,CTNNB1,DNM1L,ETS1,FGF2,FGFR2,GJA1,GPT2,PIM1,PTPRK,SDC1,SMAD2,VAV3	191 (23)
MDM2		transcription regulator		-0.492	0.000407	BIRC5,CCNA1,CCND1,CXCL8,ETS1,KAT2B,SPRY2,TOP2A	228 (24)

ATP-gamma-S		chemical reagent			0.000407	AREG,CCL2,CXCL2,CXCL8,IL1R2,IL6,IL7R,TGFA	115 (14)
FBXO32		enzyme		-1.857	0.000408	ADSSL1,CADM1,CCL20,CXCL2,CXCL3,GADD45A,HYOU1,IL6,RAB27A	
salmonella minnesota R595 lipopolysaccharides		chemical - endogenous non-mammalian		1.778	0.00041	CCL2,CCL20,CXCL2,CXCL3,CXCL8,FPR1,GDF15,IL6,MDFIC,PTPRJ,SOCS3	149 (18)
SOCS1		other		-0.396	0.00041	BCL2A1,CCL2,CCND1,CXCL2,CXCL8,DUSP1,IL6,ISG20,MAP3K5,SOCS3,STAT1	165 (17)
salmeterol		chemical drug		0.943	0.00041	DDIT4,DUSP1,IL6,SOCS3	155 (19)
beta-1,3-glucan		chemical drug		0	0.00041	FGF1,FGF2,IL6,TGFA	141 (12)
gamma-tocotrienol		chemical drug		-0.017	0.00041	CCND1,CTNNB1,IL6,NLRP3	139 (13)
LY96		transmembrane receptor		-0.677	0.00041	CXCL2,CXCL3,CXCL8,IL6	112 (19)
Cd2+		chemical toxicant			0.00041	CCND1,CXCL3,DDAH1,SOD1	82 (7)
zVAD-FMK		chemical - protease inhibitor		-0.128	0.00041	BCL2A1,BIRC5,CASP3,CCL2,CXCL3,MAP1LC3B	184 (19)
IL15		cytokine		0.677	0.00041	ARHGDIB,CASP3,CCL2,CCND1,CD274,CXCL2,CXCL8,EDN1,ETS1,GCNT1,IL24,IL6,IL7R,PIM1,PPP6C,PRKACA,PTPRJ,SMAD2,SORL1,TFRC,TOP2A,TRIM5	122 (15)
KITLG	-2.185	growth factor		-0.522	0.000429	BIRC5,CASP3,CCL2,CXCL8,EFNB2,GJA1,IGFBP3,IL6,PIM1,PLSCR1,PRKCA,PTGES3,RPS23,SLC25A12,TCF3,UCP2	129 (17)
thapsigargin		chemical toxicant	Activated	2.109	0.00043	CCND1,CXCL2,CXCL3,CXCL8,DDIT4,EDN1,ETS1,GADD45A,IL6,KPNA1,LBH,MTHFR,SGK1	131 (17)
bleomycin		chemical drug		0.818	0.00043	ACTA2,CASP3,CCL2,CTNNB1,CXCL2,DNER,F2R,HBEGF,IL6,KITLG,PLAT,STK17B,TINAGL1	173 (21)
valproic acid		chemical drug		-0.127	0.000433	B4GALT1,BIRC5,CASP3,CCL2,CCND1,CDCA7,CDKN1C,CTNNB1,DAPK3,DHCR7,DICER1,EDEM1,EDN1,IL6,LIMA1,MECP2,MTHFR,PLAT,PSMB6,PSMC2,SCD,SGK1,TCF3,TENM3,TOP2A	221 (21)
NFKBIB		transcription regulator		0.73	0.000446	BCL2A1,CCL2,CXCL2,CXCL8,DAPK1,IL6,PLAU	114 (13)
FADD		other		-1.667	0.000446	CTNNB1,CXCL2,CXCL8,IL6,PIM1,RC3H2,RNF114,STAT1,STAT2	110 (17)
SPDEF		transcription regulator		0	0.000451	CXCL8,LASP1,PLAU,PLAUR,PRKCA,SDC1,SMAD2,TNC	138 (11)
BCL6		transcription regulator		-1.132	0.000645	BCL2A1,CCL2,CCND1,CXCL3,FGF2,GADD45A,IL24,IL6,IL7R,RGS4,SDC1,SOCS3	141 (16)
PF4		cytokine		1.409	0.000459	ACTA2,CCL2,CXCL3,CXCL8,IL6	121 (17)
plumbagin		chemical toxicant		-0.447	0.000459	BCL2A1,BIRC5,CCND1,GSK3B,IL6	130 (16)
TEAD1		transcription regulator		-0.762	0.000459	ACTA2,CCND1,GSK3B,PURA,TGFA	104 (7)

CLDN7		other		0.691	0.000472	ARHGDIB,ASAP1,CCL20,CCNA1,CXCL8,DNAJB6,GLS,LIMA1,NETO2,TINAGL1,TPK1	
NEDD9		other		-0.816	0.000476	ADM,DDIT4,ELF3,GDF15,PLAC8,PPP1R3B	
NOS2		enzyme		0.611	0.000476	ADH5,BCL2A1,BIRC5,CASP3,CCL2,CXCL2,CXCL3,CXCL8,EDN1,GJA1,HMGB2,IL6,PLSCR1,TKT	136 (17)
NS-398		chemical reagent		0.493	0.000487	BIRC5,CASP3,CCND1,CXCL8,F2R,FGF2,IL24,IL6,TFRC	229 (23)
BDNF		growth factor		-0.473	0.000497	CASP3,CCND1,DUSP1,GNAI1,HSPA4L,IL6,ITPR1,MYO5A,MYO6,PDLIM5,REEP5,RGS4,RPS23,SH3BGRL2,SORL1,SPARC,SPRY2,TFRC,TM9SF2	192 (21)
IRF5		transcription regulator		-0.423	0.000498	CASP3,CXCL2,IFITM3,IL6,ISG20,PLSCR1,STAT1,STAT2	115 (16)
Gsk3		group		-1.271	0.000498	BACE1,BIRC5,CCND1,CTNNB1,CXCL8,GDF15,IL6,STAT1	167 (17)
PTPRJ	-2.501	phosphatase		1.134	0.000502	CXCL2,CXCL3,EDN1,HBEGF,IL6,PLAT,PLAUR	197 (22)
bromodeoxyuridine		chemical drug		0.404	0.000502	CXCL8,IGFBP3,IL24,IL6,IL7R,STAT1,TGFA	163 (17)
IL12A		cytokine		0.356	0.000502	CASP3,FGF2,IL6,MMP7,SOCS3,STAT1,STAT2	121 (13)
sulforafan		chemical drug		-0.479	0.000505	AKR1B10,AOX1,BIRC5,CASP3,CCL2,CCND1,CXCL8,IL6,SOCS3,SOD1,TKT	185 (25)
CST5		other	Activated	2.231	0.000512	AKAP12,ARHGAP29,GRSF1,GTF2H3,HNRNPC,HNRNPDL,HS2ST1,KIAA0101,MAL2,NT5E,PDLIM5,REEP5,SMAD2,SNX30,SSRP1,TOMM22,VCAN,VTI1B	
CREBBP		transcription regulator		-1.103	0.00408	AKAP12,ARHGEF3,BIRC5,CCND1,CRISPLD2,CXCL8,DDX3Y,DUSP1,DUSP22,FGF2,FGFR3,GFRA1,IL6,IL7R,PHIP,SDC1,SERPINE2,SOCS3,TNC,TULP4	161 (22)
ATF2		transcription regulator		0.577	0.00053	BCL2A1,CCND1,CTNNB1,CXCL8,DUSP1,GADD45A,IL6,PLAU,TGFB2	176 (19)
E. coli B4 lipopolysaccharide		chemical toxicant	Activated	3.062	0.000535	CASP3,CCL2,CCL20,CD274,CXCL2,CXCL3,CXCL8,FPR1,GLIPR1,GNAI1,IFITM3,IL6,MDFIC,PANK1,PDLIM5,PIM1,PLAUR,SOCS3	122 (16)
ESR2		ligand-dependent nuclear receptor		-0.163	0.000538	AKAP12,BIRC5,CCL2,CCND1,CDKN1C,CTNNB1,CXCL8,DDAH1,DHCR7,EDN1,GALNT7,IGFBP3,PDZK1,PLAUR,PRKCH,SFRP4,SGK1,SMC2,SNN,SOCS3,SRXN1,TGFA,UBL3,VAV3	234 (21)
IL1RN		cytokine		-0.319	0.000541	ACTA2,CCL2,CCL20,CXCL3,CXCL8,GBP1,IL6,ISG20,RIPK2,STAT2,TCF7L2	135 (14)
S100A9		other		1.089	0.000543	AKAP12,AREG,BACE1,CCND1,CD274,CXCL3,CXCL8,DDIT4,EPCAM,IL6,PLAU,SGK1,VCAN	124 (18)
bortezomib		chemical drug		0.864	0.000544	BCL2A1,BIRC5,BNIP3L,CCND1,CXCL2,CXCL8,DNAJA1,DNAJB6,GADD45A,GDF15,IGFBP3,IL6,PSMB6,PSMC2,SDC1,SRXN1	166 (17)
WT1		transcription regulator		-0.201	0.000544	AREG,BCL2A1,CCL2,CCND1,CDKN2C,CTNNB1,ETS1,EXT2,FGF1,HBEGF,KPNA1,PLAUR,SDC1,SLC2A3,SLC6A6,SMC1A	108 (10)
trastuzumab		biologic drug		0.775	0.000547	BNIP3L,CCND1,CXCL8,IL6	235 (24)
PPP1R1B		phosphatase		-1.235	0.000547	CASP3,CCND1,CTNNB1,GSK3B	204 (21)
PTAFR		g-protein coupled receptor			0.000547	CCL2,CXCL2,CXCL8,IL6	123 (17)
PTHLH	3.932	other		1.264	0.000549	CCND1,CTNNB1,CXCL8,EFNB2,GSK3B,IL6,PLAU,TNC	127 (16)

tyrphostin AG 1478		chemical - kinase inhibitor		-0.754	0.000549	AREG,CCL2,CCND1,CXCL8,EDN1,HBEGF,IL6,PLAU	201 (20)
GNB1		enzyme			0.00055	CXCL3,DUSP1,F2R,IL1R2,PLAU,PTGER4	83 (14)
MALP-2s		chemical reagent		1.478	0.000556	BCL2A1,CAST,CXCL2,CXCL3,IL6	124 (13)
estrogen		chemical drug	Inhibited	-2.563	0.000558	AREG,CCL2,CCND1,DUSP1,GJA1,HBEGF,IL6,PIM1,PLAT,SERPINB9,SERPINE2,SMC2,SOD1,SPARC,TGFA,TGFB2,TGFBR1,TOP2A	231 (22)
ERBB3		kinase		-0.507	0.000577	ACTA2,CCND1,DUSP1,HBEGF,PIM2,SOCS3,SPARC,TNC,USP14	203 (22)
losartan potassium		chemical drug	Inhibited	-2.556	0.000597	CASP3,CXCL8,EDN1,GJA1,IL6,PTHLH,SOCS3,TGFB2,TGFBR1,UCP2	187 (19)
NOD2		other	Activated	2.571	0.000605	AREG,BCL2A1,CCL2,CXCL2,CXCL3,CXCL8,IL6,SOCS3	125 (16)
sulindac sulfide		chemical drug		1.029	0.000605	ARL6,BACE1,CCND1,GADD45A,GDF15,IL24,MMP7,PLAU	128 (14)
let-7		microrna		0.617	0.000607	ACTA2,CASP3,CCND1,CDCA5,CDCA7,DICER1,GTF2I,IL6,SCD,SIGMAR1,SMAD2,TGFBR1	120 (13)
KDM3A		transcription regulator			0.000615	ADM,EDN1,GDF15	
AKIRIN2		other			0.000615	CCND1,DUSP1,IL6	107 (12)
iguratimod		chemical drug			0.000615	CXCL2,CXCL3,IL6	156 (16)
WNT2		cytokine			0.000615	BIRC5,CTNNB1,GSK3B	
PRTN3		peptidase			0.000615	CCL2,CXCL8,IL6	129 (16)
MLLT3		other			0.000615	EDN1,HOXA9,SGK1	
bexarotene		chemical drug		-0.23	0.000622	CCL2,CCND1,CTNNB1,DDIT4,DUSP1,ITGB6,ITPR1,NRP2,PLAT,PLAUR,SCD,SPARC,TGFA,TGFB2	177 (18)
MET		kinase		1.294	0.000627	AREG,CCND1,CD274,EDN1,HBEGF,IL6,SOCS3,SOD1,TGFA	209 (23)
FGF8		growth factor		0.102	0.000627	CCL2,CCND1,CTNNB1,ELL2,FGFR2,NAP1L1,SPARC,SPRY2,SUB1	144 (19)
leukotriene D4		chemical - endogenous mammalian	Activated	2.592	0.000631	CCL2,CXCL2,CXCL8,DUSP1,GEM,HBEGF,IL6	186 (23)
EIF3E		other		-0.186	0.000633	CCND1,CMTM7,FGF2,PLAU,SMC2,TNC	
TSC22D3		transcription regulator		-0.346	0.000633	CCL2,CCND1,CXCL8,DUSP1,IL6,SGK1	126 (17)
TAF4		transcription regulator		-1.103	0.0337	ABL2,AREG,CCND1,ETS1,HBEGF,VAV3	
BTK		kinase		-0.479	0.000643	BCL2A1,CD274,CXCL3,CXCL8,ETS1,IL6,ISG20,PIM1,SLC2A3,STAT1	112 (14)
VHL		transcription regulator		-1.055	0.00209	CCND1,CDKN1C,GAL3ST1,GNG4,IFITM3,PTHLH,QPRT,SPARC,TFRC,TGFA	87 (5)
testosterone		chemical - endogenous mammalian		-1.66	0.000648	ABCC9,CASP3,CAST,CCND1,DDX3Y,FGFR2,FGFR3,GADD45A,IL6,MMP7,PARP1,PLAU,SDC1,SMAD2,TCEB1,TGFA,TGFB2,TGFBR1,TOP2A,VCAN	228 (21)
cyclic AMP		chemical - endogenous mammalian		1.332	0.000649	ACTA2,CCL2,CCND1,CDC42,EPCAM,FGF2,GJA1,HBEGF,IGFBP3,IL6,PRKAR2B,PTHLH,RXRA,SLC37A4,SOCS3,TGFA,TGFBR1	209 (20)

CTSB		peptidase		1.457	0.000668	ACTA2,CCND1,CXCL2,CXCL3,PLAUR	149 (20)
CD40LG		cytokine		0.607	0.000677	ARMC6,BCL2A1,CAST,CCL2,CCL20,CXCL2,CXCL8,DUSP1,GADD45A,GRSF1,IL6,IL7R,NAP1L1,PIM1,PLAU,PLAUR,POLA1,PTPRG,STAT1,TFRC,TNPO1,XPO7	151 (15)
RB1		transcription regulator		-0.375	0.000677	BIRC5,CASP3,CCNA1,CCND1,CDCA5,CDCA7L,CNOT6L,CXCL8,EI24,FGF2,GPT2,HMGB2,IL6,KIAA0101,PARP1,PIM1,RAB27A,RBL2,SNTB2,TCF19,TGFB2,TOMM22	217 (23)
TLR9		transmembrane receptor	Activated	2.556	0.000679	CAST,CD274,CERK,CXCL3,CXCL8,DUSP1,EDN1,IL6,ISG20,SDC1,SMPD1,SOCS3,STAT1,STAT2,TNC	130 (15)
garcinol		chemical - endogenous non-mammalian		1.667	0.00068	ARHGAP35,CCNA1,DAPK1,GTF2I,PIM2,PLAT,PTTG1IP,TCF7L2,VAV3	
bucladesine		chemical toxicant		-0.858	0.000684	C3AR1,CCND1,CNP,CXCL3,CXCL8,DUSP1,GDF15,GEM,IGFBP3,IL6,KITLG,MAP3K5,PLAU,PTGER4,SIGMAR1,SOCS3,TGFB2,TINAGL1,ZDHHC7	209 (22)
acetaminophen		chemical drug		1.518	0.000685	AMACR,CASP3,CAST,CCND1,CSNK2A1,CXCL2,CXCL3,GADD45A,IGFBP3,IL6,PLAUR,SOCS3	129 (18)
TRAF6		enzyme		1.243	0.000705	CCL2,CD274,CTNNB1,CXCL2,CXCL8,IL6,MAP1LC3B	164 (17)
diphenyleneiodonium		chemical reagent		-1.797	0.000705	ACTA2,CCL2,CXCL2,CXCL3,CXCL8,IL6,UCP2	160 (18)
CFB		peptidase		1.98	0.000714	C3AR1,CXCL2,CXCL3,TGFB2	
SKIL		transcription regulator		-1.009	0.00106	ACTA2,DIXDC1,KPNA1,NETO2,PLSCR1,WDR41	
PHB2		transcription regulator		0.152	0.000714	AREG,CDKN1C,GJA1,SOCS3	
D609		chemical reagent		-1.715	0.000714	CCL2,CXCL8,IL6,ITPR1	166 (18)
STAT3/5		group			0.000715	PIM1,PIM2	
AFAP1L2		other			0.000715	CXCL8,IL6	179 (16)
Par		group			0.000715	CCL20,IL6	
GNA14		enzyme			0.000715	CXCL8,IL6	89 (10)
DAPK3	2.014	kinase			0.000715	BIRC5,CCND1	103 (10)
MIR585		microrna			0.000715	CASP3,PARP1	
INCB28060		chemical - kinase inhibitor			0.000715	AREG,TGFA	125 (13)
SRPK2		kinase			0.000715	CCNA1,CCND1	3 (2)
CRADD		other			0.000715	CCL2,IL6	
GPR32		g-protein coupled receptor			0.000715	CXCL8,IL6	
TMEM9B		other			0.000715	CXCL8,IL6	83 (7)
COL17A1		other			0.000715	CXCL8,IL6	121 (7)
E-4031		chemical drug			0.000715	CCL2,IL6	
dofetilide		chemical drug			0.000715	CCL2,IL6	
BAY-u977		chemical			0.000715	CCL2,IL6	21 (4)

3		reagent					
wax ester		chemical - endogenous non-mammalian			0.000715	CCL2,IL6	
mifepristone		chemical drug		0.713	0.000715	ADM,AREG,CASP3,CCL2,CCND1,DDIT4,DUSP1,EFNB2,EPCAM,FGF2,GJA1,HBEGF,IGFBP3,IL6,PLAT,SFRP4,TENM3,VCAN	226 (24)
raloxifene		chemical drug	Inhibited	-2.359	0.000719	AREG,CCND1,DDIT4,DUSP1,F2R,IL6,KYNU,SMPD1,SOD1,TFRC,TGFA,TGFB2,TOP2A	226 (26)
baicalein		chemical - endogenous non-mammalian		-0.054	0.000725	BIRC5,CCL2,CCND1,CXCL8,IL6,RBL2	197 (19)
MUC1		other		-1.737	0.000725	CCND1,CTNNB1,CXCL8,IL6,PLAU,SOD1	185 (19)
Histone h4		group			0.000727	AKAP12,CCND1,CXCL3,CXCL8,HOXA9,IL6,KALRN,NEDD4L,NEGR1,NF1,SOCS3,TGFBR1	216 (20)
cobalt chloride		chemical reagent		1.152	0.00073	ADM,CXCL8,DDIT4,DUSP1,IREB2,PLAUR,SORL1,TFRC	167 (19)
SOX1		transcription regulator		0.707	0.00073	CTNNB1,DUSP1,EFEMP1,EXT2,FGF5,NCKAP1,TGFB2,TNFRSF19	
PP2/AG1879 tyrosine kinase inhibitor		chemical - kinase inhibitor		0.053	0.00073	CCL2,CXCL8,DUSP1,EDN1,FGF2,IL6,PLAU,PTPRJ	159 (20)
STAT5a/b		group		1	0.000737	BCL2A1,CDKN2C,DUSP1,NETO2,PIM1,PIM2,SLC2A3,SOCS3,STK17B	84 (7)
CD28		transmembrane receptor		0.746	0.000752	ARHGDIB,BCL2A1,CASP3,CCND1,CD274,CXCL2,CXCL8,DUSP22,GBP1,HMGN2,HOMER2,IL6,IL7R,NDFIP2,PTGER4,PTPRJ,SNRPB,SOCS3,SUSD6,TFRC	132 (15)
ionomycin		chemical reagent		-0.036	0.000759	BCL2A1,CASP3,CXCL8,DUSP1,ETS1,IL6,NDFIP2,PIM1,PTPRJ,PTPRK,SGK1,SLC6A6,SMAD2	131 (18)
IKBKB		kinase		1.915	0.00077	CCL2,CCL20,CCND1,CTNNB1,CXCL2,CXCL3,CXCL8,EDN1,ETS1,GADD45A,IL6,PLAU,SERPINE2,SGK1,SOCS3,TGFBR1,VCAN	151 (20)
Ap1		complex		1.209	0.000771	BCL2A1,C3AR1,CCL2,CCND1,CXCL8,EDN1,ETS1,IGFBP3,IL6,MMP7,PLAU,SPARC	163 (19)
N-acetylmuramyl-L-alanyl-D-isoglutamine		chemical - endogenous non-mammalian	Activated	2.378	0.000785	AOX1,CCL2,CXCL2,CXCL3,CXCL8,ETS1,IL6	170 (18)
3,3'-diindolylmethane		chemical drug		-0.303	0.000785	BIRC5,CCND1,CDKN1C,GDF15,IL6,MAP1LC3B,TGFA	232 (24)
EFNA2		kinase		-0.378	0.000785	CUX1,NEDD4L,NT5E,PLAT,PTHLH,TCF3,TRIM5	
FCGR2A		transmembrane receptor		1.172	0.000795	CCL2,CXCL2,CXCL3,CXCL8,IL6	153 (16)
Notch		group		0.751	0.000799	ACTA2,ADM,BIRC5,CDCA7,DUSP1,FGF5,IL6,SMAD2	194 (17)
IFNL1		cytokine		0.743	0.000799	CXCL8,F2R,GBP1,IFITM3,IL6,ISG20,PLSCR1,STAT1	132 (16)
fenretinide		chemical drug		-1.028	0.000799	BCL2A1,CASP3,CCND1,ELF3,IL6,RBL2,RXRA,STAT1	227 (24)

isotretinoin		biologic drug		-1.555	0.000799	CCL2,CXCL8,ELF3,IGFBP3,IL6,PRKCA,STAT2,TFRC	177 (22)
IRAK4		kinase			0.000799	CCL20,CXCL2,CXCL3,CXCL8,EDN1,GEM,IL6,PLSCR1	142 (16)
VCAN	-2.35	other		-0.47	0.000802	ADM,CASP3,CCL20,CRISPLD2,CXCL2,PCSK5,RNASE4,RXRA,TCF7L2,TGFA,VCAN	122 (7)
palmitic acid		chemical - endogenous mammalian		0.374	0.000845	BACE1,CASP3,CCL2,CXCL2,CXCL3,CXCL8,DEGS1,GDF15,IL6,MAP1LC3B,SCD,SOCS3,UCP2	122 (17)
ATF4		transcription regulator		-0.03	0.000866	AREG,CCL2,CTNNB1,DDIT4,EDN1,GADD45A,GDF15,IL6,MAP1LC3B,OSMR,PSPH,SIGMAR1	146 (9)
DDX58		enzyme		0.994	0.000873	CXCL8,GEM,IL6,ISG20,SOCS3,STAT1,STAT2	111 (16)
C5		other		1.992	0.000914	CXCL2,CXCL3,IL6,SOCS3	159 (18)
NPM1		transcription regulator		-1	0.0000178	CCL2,CTNNB1,CXCL2,CXCL3,HOXA7,HOXA9,IL6	106 (11)
NOD1		other		1.953	0.000914	CXCL2,CXCL8,DUSP1,IL6	163 (17)
PHLPP1		enzyme		0.762	0.000914	CXCL2,CXCL3,PRKCA,USP12	79 (7)
N(6)-(3-iodobenzyl)-5'-N-methylcarboxamidoadenosine		chemical drug		0.686	0.000914	CCND1,CTNNB1,GSK3B,RGS4	98 (7)
TF		transporter		-0.152	0.000914	CCL2,CCND1,CXCL8,TGFA	156 (23)
IRAK3		kinase		-1.072	0.000914	BCL2A1,CXCL2,CXCL3,IL6	145 (17)
nimesulide		chemical drug			0.000914	AREG,BIRC5,CDKN2C,CTNNB1	143 (10)
retinoid		chemical drug		0.314	0.000939	DUSP1,EDN1,GJA1,HBEGF,IGFBP3,LIMA1	159 (11)
PRKCD		kinase		1.173	0.000939	BCL2A1,BIRC5,CCL2,CCL20,CCND1,CXCL8,GDF15,GEM,IL6,LBH,MAP1LC3B,PDLIM7,PLSCR1	173 (17)
AREG	2.589	growth factor		0.14	0.00094	AREG,CCL20,CCND1,IL6,PLAU	156 (18)
LRP6		transmembrane receptor		-0.283	0.00094	ACTA2,CTNNB1,EPCAM,IL6,SLC2A3	151 (17)
methylnitronitrosoguanidine		chemical toxicant		-1.043	0.00094	CCND1,GADD45A,GDF15,PLAT,PLAU	173 (20)
apigenin		chemical - endogenous non-mammalian		-1.51	0.000954	CASP3,CCL2,CCND1,CTNNB1,CXCL3,CXCL8,IL6,SLN	131 (18)
tocilizumab		biologic drug			0.000965	CCL2,CXCL8,IL6	66 (7)
Retinoic acid-RAR-RXR		complex			0.000965	DUSP1,IGFBP3,TGFB2	
IL1RL2		transmembrane receptor			0.000965	CCL20,CXCL8,IL6	78 (7)
IL26		cytokine			0.000965	CCL20,CXCL8,IL6	114 (12)
GLRX		enzyme			0.000965	CXCL2,CXCL3,FGF2	110 (11)
AMBP		transporter			0.000965	CXCL2,CXCL3,PLAU	129 (14)

IL1R2	2.091	transmembrane receptor			0.000965	CCL20,CXCL8,IL6	110 (12)
SDC2		other			0.000965	ACTA2,MMP7,TGFBR1	131 (7)
PCBP2		other			0.000965	HNRNPD,STAT1,STAT2	75 (7)
IFN Beta		group		0.671	0.000967	C3AR1,CD274,CXCL8,DUSP1,IL24,IL6,PRKCA,SPRY2,STAT1,STAT2,TGFBR1	113 (15)
ritonavir		chemical drug		-0.343	0.000967	ABHD2,BIRC5,CDCA7L,CXCL8,DHCR7,HMGB3,HMGN2,IL6,KITLG,SCD,TSN	147 (17)
C3		peptidase	Activated	2.069	0.000968	CASP3,CCL2,CXCL2,CXCL3,CXCL8,IL6,UCP2	136 (16)
SMAD3		transcription regulator		0.75	0.000988	ACTA2,AREG,CCL2,CCND1,CTNNB1,CXCL3,DAPK1,EDN1,HBEGF,IL6,PTHLH,TGFA,TGFB2,TGFBR1,TNC	196 (22)
APP		other		0.542	0.00101	ACTA2,BACE1,CASP3,CAST,CCL2,CCL20,CCND1,CDC42,CSNK2A1,CSNK2A2,CTNNB1,CXCL2,CXCL3,CXCL8,DDAH1,DNM1L,EDN1,FGF2,GDF15,GSK3B,IL6,ISG20,KYNU,MECP2,NF1,NRP2,PDXP,PLAT,PLAU,PRKACA,PRKCA,PURA,SIGMAR1,SIRPA,SOCS3,SOD1,SSRP1,TOP2A,VCAN	168 (18)
CTNNB1	-2.624	transcription regulator		0.331	0.00102	ACTA2,BACE1,BIRC5,CADM1,CCNA1,CCND1,CLDN2,CTDSPL,CTNNB1,CXCL8,DIXDC1,EDN1,EPCAM,F2R,FAM126A,FGF5,GJA1,LBH,MAP3K5,MMP7,NRP2,PLAU,PLAUR,PTPRJ,SCD,SERPINE2,SFRP4,SGK1,TCF7L2,TGFA,TNC,TNFRSF19,VCAN	168 (21)
cerivastatin		chemical drug		-1.28	0.00104	CCL2,CNP,CXCL8,FGF2,IL6,PLAT,PLAU,PLAUR	133 (19)
miR-483-3p (miRNAs w/seed CACUCCU)		mature microrna		0.098	0.00106	CTNNB1,EI24,GJA1,HMGB3,PUDP,SOCS3	
GPS2		transcription regulator		-0.64	0.00106	ASAP1,CCL20,CCND1,CXCL8,HIVEP2,SGK1	126 (16)
PDX1		transcription regulator		1	0.000271	CCND1,CRELD2,CXCL2,DAPK3,FGF1,FGF2,FGF5,GNG12,IGFBP3,IL6,PAPSS2,SLC6A6,TCF7L2,TIPRL	123 (8)
MMP9		peptidase		1.336	0.00107	ACTA2,CCND1,CTNNB1,CXCL2,GADD45A,IL6,SERPINE2	189 (18)
TAZ		enzyme			0.00107	AOX1,ARHGAP29,CCL2,DICER1,EDN1,PPP1R3B,RGS4	
IL12 (complex)		complex		1.88	0.00108	CASP3,CCL2,CCL20,CXCL8,FGF2,GJA1,IL6,IL7R,ISG20,PIM1,PLAC8,PLAU,SMAD2,SOCS3	143 (17)
3-methyladenine		chemical toxicant		1.24	0.0011	BACE1,CXCL2,CXCL8,IL6,MAP1LC3B	139 (19)
IL17RA		transmembrane receptor		0.811	0.0011	CCL20,CXCL2,CXCL3,CXCL8,IL6	130 (17)
ARRB2		other		-1.393	0.0011	CTNNB1,CXCL2,CXCL3,GSK3B,IL6	140 (19)
etanercept		biologic drug		-1.4	0.0011	CCL2,CCL20,CXCL8,IL6,STAT1	150 (15)
26s Proteasome		complex		0.257	0.00112	CCL2,CXCL3,CXCL8,HBEGF,IL6,MAP1LC3B,PRKCA,SMAD2,SOCS3,STAT1	121 (16)
SOX3		transcription regulator		0.707	0.00113	CTNNB1,DUSP1,EFEMP1,EXT2,FGF5,NCKAP1,TGFB2,TNFRSF19	
Creb		group		1.56	0.00115	ABL2,ADM,AREG,C3AR1,CCND1,CXCL8,DUSP1,GJA1,GTF2H3,IL6,LASP1,NDFIP2,NF1,PLAT,POLA1,PRKCA,PTHLH,SOD1	149 (13)
IL36A		cytokine		1.972	0.00115	CCL20,CXCL3,CXCL8,IL6	132 (18)

IL17R		complex		1.236	0.00115	CCL2,CCL20,CXCL3,CXCL8	128 (18)
HOXB9		transcription regulator		0.94	0.00115	AREG,CXCL8,FGF2,TGFB2	
HDAC7		transcription regulator		0.406	0.00115	CCND1,CTNNB1,EDN1,IL6	191 (12)
NPC2		other		0	0.00115	CREB5,PTGER4,STAT1,STAT2	66 (7)
artesunic acid		chemical drug			0.00115	BIRC5,CASP3,CCL2,MMP7	162 (15)
PRL		cytokine	Inhibited	-2.095	0.00116	CCL2,CCND1,HIPK3,IGFBP3,IL6,PDIA5,PIM1,PLAT,PLSCR1,RNASE4,SDC1,SOCS3,SOD1,SPARC,STAT1,STAT2,TCEB1	133 (15)
TICAM1		other	Activated	2.075	0.00116	CCL2,CXCL2,CXCL3,CXCL8,DUSP1,FPR1,GDF15,IL6,ISG20,RIPK2,SOCS3	133 (19)
EIF4E		translation regulator		-1.782	0.00116	BIRC5,CCND1,DPYD,FGF2,FGF5,KAT2B,PIM1,PLAUR,PTGES3,SRXN1,TGFA	92 (7)
PRKAA1		kinase		-0.89	0.00117	ACTA2,ARHGDIB,BIRC5,CXCL8,DDAH1,FGFR2,IL6,SOCS3,SORL1	184 (20)
clozapine		chemical drug		-0.096	0.00118	CTNNB1,DHCR7,GSK3B,IL6,PRKAR2B,SCD,SGK1	164 (18)
triptolide		chemical drug		-1.082	0.00118	BIRC5,CASP3,CXCL8,DUSP1,IL6,MMP7,SOCS3	138 (19)
Sn50 peptide		chemical toxicant		-1.383	0.00118	BCL2A1,BIRC5,CXCL2,CXCL8,GJA1,IL6,MMP7	194 (16)
TGM2		enzyme		-0.384	0.00118	BCL2A1,CCL2,CCND1,CDCA7,CXCL8,DHX33,GJA1,IL6,PIM1,PLSCR1,SIRPA,SLAMF7,SMPD1,STAT1,TOR1B	154 (19)
MYB		transcription regulator		-0.269	0.0012	BIRC5,CCNA1,FUT8,IGFBP3,IL7R,ITPR1,KITLG,POLA1,SDC1,TULP4	71 (7)
DGCR8		enzyme		0.875	0.0012	ACTA2,CCND1,CNP,GJA1,TCF7L2,TNC	
budesonide		chemical drug		-0.046	0.00123	CXCL2,CXCL8,GNAI1,IL6,ITPR1,MAP3K2,PRKACA,PRKCA	153 (16)
GMNN		transcription regulator		1	0.000311	CTNNB1,DUSP1,EFEMP1,EXT2,FGF2,FGF5,NCKAP1,TGFB2,TNFRSF19	
ETV4		transcription regulator		0.2	0.00129	ACTA2,B4GALT1,CTNNB1,CXCL8,MMP7	
ABCB4		transporter		-0.398	0.00129	ACTA2,CCL20,ELF3,SPARC,TGFB2	
STAT2	-2.084	transcription regulator		1	0.0366	CXCL8,GBP1,IFITM2,IL6	
seocalcitol		chemical drug		1.912	0.0013	AREG,BIRC5,GADD45A,IL24,PAPOLA,PDLIM7,SGK1	
histamine		chemical - endogenous mammalian		0.612	0.00134	AREG,BIRC5,CCL2,CTNNB1,CXCL8,GDF15,HBEGF,IL6	176 (19)
mir-10		microrna		0.6	0.00134	CCL2,CTDSPL,FGFR3,GJA1,IL6,NF1,SMAD2,TGFBR1	139 (20)
Rock		group		1.387	0.00135	CCL2,CCND1,CDC42,CXCL8,ETS1,LPP	178 (19)
stallimycin		biologic drug		0.742	0.00135	CXCL8,IL24,IL6,IL7R,STAT1,TGFA	96 (10)
PROC		peptidase		0.353	0.00135	BCL2A1,CCL2,CXCL2,CXCL3,CXCL8,IL6	135 (15)
clofibrate		chemical drug	Inhibited	-2.236	0.00135	CCND1,CXCL8,GADD45A,IL6,NAP1L1,PEX11B,RTN4,SCD,UCP2	151 (19)
SNAI1		transcription regulator			0.00135	CCL2,CCND1,CDC42,CXCL8,LASP1,LIMA1,MYO5A,SDC1,SPARC	188 (13)
FOXM1		transcription regulator		-0.258	0.00136	BIRC5,CCNA1,CCND1,CTNNB1,IL6,MMP7,NEDD4,PLAUR,TOP2A,VCAN	199 (21)

R 59022		chemical - kinase inhibitor			0.00142	CCL2,CXCL8,IL6	167 (19)
Bcl9-Cbp/p300-Ctnnb1-Lef/Tcf		complex			0.00142	CCND1,GJA1,MMP7	
FBXO42		other			0.00142	CXCL8,IL6,STAT1	83 (7)
FGF3		growth factor			0.00142	CTNNB1,PLAT,PLAU	94 (11)
PI3		other			0.00142	ACTA2,CXCL8,FGF2	
DUSP4		phosphatase			0.00142	DUSP1,IL6,SMAD2	162 (20)
miR-193a-3p (and other miRNAs w/seed ACUGGCC)		mature microrna			0.00142	CCND1,ETS1,PLAU	
BRMS1		enzyme			0.00142	GJA1,IL6,PLAU	85 (8)
tiron		chemical reagent			0.00142	IL6,PLAUR,TNC	127 (18)
ADORA3		g-protein coupled receptor	Activated	2	0.00143	CCL2,CXCL3,CXCL8,IL24	180 (21)
MSR1		transmembrane receptor		-0.832	0.00143	CTNNB1,CXCL2,CXCL3,IL6	129 (19)
CBX7		other		-1	0.00143	AREG,CXCL8,GDF15,KYNU	
TNFRSF18		transmembrane receptor		-1	0.00143	CCL2,CXCL3,CXCL8,IL6	124 (18)
BCL2L11		other		-1.131	0.00143	CASP3,CCND1,CXCL2,IL6	164 (15)
P2RX7		ion channel			0.00143	CCL2,CCL20,IL6,NLRP3	143 (18)
CNTF		cytokine		1.002	0.00145	CASP3,CXCL8,FGF2,GJA1,SATB2,SCD,SOCS3,STAT1	127 (16)
mir-21		microrna		1.068	0.00148	ACTA2,CCL2,CD274,CSNK2A2,DDAH1,IL6,NLRP3,PLAT,PPP4R2,SMAD2,SMC2,SPRY2,STAT1,STAT2,TOP2A,UBE2G1	152 (17)
KL		enzyme		0.651	0.00149	CAST,CCND1,CTNNB1,IL6,MMP7	143 (17)
CASP1		peptidase		0.152	0.00149	ACTA2,CXCL2,IL6,RIPK2,SCD	189 (21)
SFRP1		transmembrane receptor		0.038	0.00149	ACTA2,BACE1,CASP3,CTNNB1,EPCAM	138 (12)
AVP		other	Activated	2.183	0.00151	ACTA2,ADM,CCL2,CCND1,IL6,PRKCA	175 (20)
baicalin		chemical - endogenous non-mammalian		-0.784	0.00151	BIRC5,CASP3,CCL20,CXCL8,IL6,SPARC	149 (19)
Tnf (family)		group	Activated	2.122	0.00155	BIRC5,C3AR1,CCL2,CCND1,CLDN2,CXCL3,CXCL8,GJA1,IL6,NT5E,SOCS3	126 (16)
E. coli serotype 0127B8 lipopolysac		chemical - endogenous non-mammalian		0.231	0.00155	CCL2,CXCL2,EDEM1,F2R,FGF1,FGF2,GJA1,IL24,IL6,SOCS3,STAT1,STAT2,TGFBR1	128 (14)

charide							
MKNK1		kinase		-0.469	0.00155	ETS1,GNAI1,HSPA4L,MYO5A,MYO6,PDLIM5,SMAD2,SPARC,TM9SF2	
cholesterol		chemical - endogenous mammalian		1.574	0.00156	ACTA2,CCL2,CXCL2,CXCL3,CXCL8,DHCR7,FGF2,GNAI1,HBEGF,IL6,KITLG,MAP1LC3B,SCD,SOCS3	200 (20)
maslinic acid		chemical - endogenous non-mammalian		1.342	0.00157	CCND1,ETS1,GSK3B,PLAUR,PRKACA,PRKAR2B,SORBS1,TGFBR1	184 (17)
MTPN		transcription regulator		-0.152	0.00157	BCL2A1,CASP3,CCND1,EDN1,IL6,PLAT,SPARC,TGFB2	136 (13)
IGF2		growth factor			0.00158	AREG,BIRC5,CCND1,DHCR7,DUSP1,GADD45A,HBEGF,IFITM2,IGFBP3,IL6,PIM1,SOCS3	165 (20)
IL3		cytokine		1.785	0.00159	AREG,ARHGAP29,ARHGDIB,BNIP3L,CASP3,CCL2,CCND1,CXCL8,F2R,GADD45A,HBEGF,IL6,PIM1,PIM2,SLAMF7,SLC2A3,SOCS3,SOD1,UCP2	132 (20)
NOTCH1		transcription regulator		-0.116	0.0016	ACTA2,CCND1,CDCA7,CDKN1C,CTNNB1,CXCL8,EFNB2,FGF2,GLS,IGFBP3,IL6,IL7R,NR2F2,PTPRK,TGFB2	206 (22)
Pkc(s)		group		0.745	0.00163	ADM,CCL2,CTNNB1,CXCL8,DUSP1,EDN1,FGF2,GADD45A,HOXA7,IL6,MAP3K5,PRKCA,PTPRE,RBL2	179 (22)
TGFB3		growth factor		-0.117	0.00166	ACTA2,ETS1,FGF2,GJA1,PLAUR,SCD,SERPINE2,SMAD2,TNC	185 (21)
CTGF		growth factor		-0.816	0.00166	BCL2A1,BIRC5,CCND1,CTNNB1,IL6,KITLG,MBNL2,SFRP4,SPARC	182 (22)
ATG7		enzyme		-1.246	0.00169	ACTA2,CASP3,CXCL8,IL6,SOCS3,TGFBR1	114 (17)
TAC1		other		0.536	0.0017	CASP3,CCL2,CXCL3,CXCL8,IL6,KITLG,PLAT,PRKACA	142 (19)
IRF9		transcription regulator		-0.762	0.00172	CXCL8,GBP1,SOCS3,STAT1,STAT2	110 (11)
FOXP1		other		-1.067	0.00172	DPYD,GJA1,IL6,NFIA,SFRP4	
RABL6		other		-1.89	0.00172	ATXN1,DAPK1,DUT,FERMT2,HBEGF,POLA1,TOP2A	126 (7)
romidepsin		biologic drug			0.00172	BCL2A1,CCND1,CDC42,DUSP1,FGF2,PLAUR,SPRY2	173 (22)
kainic acid		chemical toxicant		-0.904	0.00173	BACE1,CASP3,CCND1,DUSP1,FGF2,GFRA1,HBEGF,HYOU1,MMP7,SDC1,TMEM158	155 (18)
ERN1		kinase		0.555	0.00175	CCNA1,CXCL2,EDEM1,EPCAM,ETS1,ITGB6,MAP1LC3B,SCD,SPARC,TINAGL1	62 (4)
SOCS6		other		1	0.00175	CXCL2,CXCL3,HBEGF,PLAT	
calyculin A		chemical toxicant		-0.152	0.00175	CCL2,CCND1,NR2F2,PRKCA	179 (24)
PYCARD		transcription regulator			0.00175	ACTA2,CASP3,CXCL8,IL6	173 (17)
MAP3K5	-2.68	kinase			0.00175	CCND1,CXCL8,IL6,MAP3K5	176 (19)
PPP1R15A		other			0.00175	CCND1,GADD45A,IL6,MAP1LC3B	99 (7)
2-mercaptoacetate		chemical - endogenous non-mammalian			0.00175	CXCL2,CXCL3,IL6,PLAU	158 (14)
SMARCB		transcription		0.194	0.00175	BNIP3L,CCND1,CDKN2C,DAPK1,GADD45A,GJA1,HBEGF,NE	127 (7)

1		regulator				O1,POLA1,PRKAB2,SLC37A4,SPARC	
TGFB2	2.209	growth factor		0.282	0.00178	ACTA2,EDN1,FGF2,HBEGF,PTHLH,SCD,SMAD2,TGFB2,VCAN	192 (21)
IRF4		transcription regulator		-0.931	0.00183	CCL20,CXCL3,GBP1,IL6,IL7R,PLAUR,PLSCR1,PRKCA,STAT1,STAT2,SUB1	165 (17)
sphingosine-1-phosphate		chemical - endogenous mammalian		0.782	0.00183	CCL2,CCND1,CXCL2,CXCL8,ETS1,FGF2,IL6,RXRA	157 (19)
FGF19		growth factor		-0.651	0.00183	AREG,BIRC5,CCND1,CTNNB1,CXCL2,GADD45A,SCD,SGK1	157 (17)
LEPR		transmembrane receptor		-0.165	0.00184	ACTA2,IGFBP3,IL1R2,IL24,IL6,MMP7,NUP160,SOCS3,STAT2,STK17B,TCF7L2,UCP2	188 (22)
STAT1	-2.425	transcription regulator		1.016	0.0002	BIRC5,CASP3,CCL2,CCL20,CCND1,CD274,CXCL2,CXCL3,CXCL8,EDN1,FGF2,GBP1,IFITM2,IFITM3,IL6,PIM1,SMAD2,SOCS3,STAT1,STAT2	135 (14)
ETS1	2.211	transcription regulator		-0.445	0.00186	ARHGDIB,CCL2,CCND1,ETS1,HS2ST1,IL24,IL7R,ITGB6,MMP7,PARP1,PLAU,PTHLH,TGFA,TGFB2	127 (12)
Raf		group		0	0.00188	AREG,CCND1,EDN1,GDF15,PLPP3,SPRY2,TOP2A	159 (20)
methylmercury		chemical toxicant		-0.478	0.00188	CASP3,CSNK2A1,IGFBP3,IL6,NCKAP1,RTN4,SPARC	
chloroquine		chemical drug		-0.865	0.00188	CXCL8,GJA1,IL6,MAP1LC3B,NT5E,SOCS3	119 (16)
CD24		other		-0.447	0.0019	CXCL8,GDF15,HS2ST1,ISG20,LPP,LRPPRC,PHF10,PLAU,TOP2A	144 (12)
RELB		transcription regulator		1.04	0.0335	CCL20,CCND1,CXCL8,IL6,TGFA	
OSCAR		other		1.342	0.00197	CCL20,CXCL2,CXCL3,CXCL8,MMP7	131 (15)
PIAS1		transcription regulator		0.64	0.00197	ACTA2,CCND1,GADD45A,SCD,STAT1	166 (25)
diclofenac		chemical drug		-0.651	0.00197	CCND1,GDF15,IL24,IL6,LBH	165 (16)
imatinib		chemical drug		0.518	0.00198	BIRC5,CASP3,CCND1,CDKN2C,IL6,SMPD1,STAT1,TCF3	206 (19)
KMT2A		transcription regulator		-0.25	0.00198	CDKN2C,ETS1,HOXA13,HOXA7,HOXA9,PRDM8,RGS4,SATB2	117 (7)
beraprost		chemical drug			0.00199	CCL2,EDN1,SOD1	
C1q		complex			0.00199	CCL2,CXCL8,IL6	183 (19)
IL9R		transmembrane receptor			0.00199	AREG,IL6,PIM1	121 (14)
ENTPD1		enzyme			0.00199	CXCL2,CXCL3,CXCL8	147 (17)
NFKBIE		transcription regulator			0.00199	CCL2,CXCL3,CXCL8	116 (12)
CDKN1C	-2.481	other			0.00199	CCND1,CDKN1C,PARP1	131 (7)
lapatinib		chemical drug			0.00199	AREG,BIRC5,HBEGF	219 (20)
pterostilbene		chemical drug			0.00199	CCND1,CTNNB1,PLAU	183 (19)
BQ-788		chemical drug			0.00199	CTNNB1,CXCL2,EDN1	95 (7)
RAC1		enzyme		0.599	0.00204	ACTA2,CCND1,CTNNB1,CXCL8,DUSP1,FGF2,IL6,PLAUR,STAT1	172 (20)

NFATC2		transcription regulator		-0.632	0.00204	CASP3,CXCL3,EDN1,ISG20,ITPR1,PDZD2,PLAT,PTPRK,SOCS3,STAT1,STAT2	177 (18)
STAT6		transcription regulator		0.859	0.00205	AREG,ARNTL2,CCL2,CCL20,CLDN2,CXCL2,CXCL3,DDAH1,FAM126A,IL24,IL6,ISG20,MYO6,PIM2,PLSCR1,SAMD4A,STAT2	144 (17)
PTPN11		phosphatase		-0.526	0.00205	CCND1,CXCL8,IL6,NF1,PIM1,PLAUR,SOCS3	143 (21)
FGFR2	-2.433	kinase		0.933	0.00209	CCND1,FGFR2,GJA1,GLIPR1,GPT2,IL6,MRAS,PLAUR,PTHLH,TENM3	148 (23)
CREB1		transcription regulator		1.042	0.0000843	ADM,ARHGAP35,BIRC5,CCNA1,CCND1,CDA,CPEB1,CXCL2,CXCL8,DUSP1,EDN1,FGFR2,GADD45A,GEM,GFRA1,GLS,HN1,IL6,NEO1,NF1,NRP2,PLAT,RASGEF1B,SCD,SEC63,SFRP4,SGK1,SLC2A3,SRXN1,TFRC,TGFBR1	205 (20)
mir-27		microrna		-0.919	0.00209	BIRC5,EDN1,IL6,NF1,SPRY2,ZBTB10	192 (13)
ADRA1A		g-protein coupled receptor			0.00209	DDAH1,DUSP1,IL6,MMP7,POLA1,PTHLH	87 (3)
phosphatidylethanolamine		chemical - endogenous mammalian			0.00211	STAT1,STAT2	
NIK		group			0.00211	CXCL8,IL6	98 (13)
Dexamethasone-GR		complex			0.00211	RXRA,SGK1	
WHSC1L1		enzyme			0.00211	CCND1,PIM2	
ZNF300		other			0.00211	CXCL8,IL6	69 (7)
DGKH		kinase			0.00211	CCL2,CXCL8	100 (10)
EPM2A		phosphatase			0.00211	GSK3B,MAP1LC3B	
UBE2D3		enzyme			0.00211	CCND1,SMAD2	76 (7)
TH17 Cytokine		group			0.00211	CXCL8,IL6	
TPSG1		peptidase			0.00211	CXCL3,IL6	
recombinant interferon gamma		biologic drug			0.00211	FGFR2,PRKACA	
PROS1		other			0.00211	CXCL8,IL6	126 (17)
HSPB3		other			0.00211	CCL2,CXCL8	
ARHGEF2		other			0.00211	CCND1,IL6	158 (17)
ERO1A		enzyme			0.00211	CXCL2,CXCL3	
CRIP2		other			0.00211	CXCL8,IL6	78 (7)
CYP2C9		enzyme			0.00211	CCND1,DUSP1	55 (7)
CNTFR		transmembrane receptor			0.00211	CXCL8,GJA1	88 (11)
AZ-960		chemical reagent			0.00211	PIM1,PIM2	76 (8)
WTAP		other			0.00211	AREG,BIRC5	
mercaptostereoid 4		chemical reagent			0.00211	CCL2,CCL20	

mercaptostereoid 6		chemical reagent			0.00211	CCL2,CCL20	
LY5		chemical reagent			0.00211	BIRC5,CCND1	72 (7)
astemizole		chemical drug			0.00211	CCL2,IL6	
gabexate		chemical drug			0.00211	CXCL3,IL6	141 (14)
vapreotide		biologic drug			0.00211	CCL2,CXCL8	69 (7)
glutathione diethyl ester		chemical reagent			0.00211	PLAU,PLAUR	
R-etodolac		chemical drug			0.00211	CCND1,RXRA	
mizoribine		chemical drug			0.00211	CCND1,SGK1	
titanium		chemical reagent			0.00211	CCL2,IL6	
glyphosate		chemical toxicant			0.00211	ITPR1,SOD1	
danazol		chemical drug			0.00211	CXCL8,IL6	110 (10)
tosylphenylalanyl chloromethyl ketone		chemical - protease inhibitor		-1.969	0.00211	CCL2,CXCL2,CXCL8,IL6	126 (13)
Fibrinogen		complex			0.00211	CCL2,CXCL3,CXCL8,IL6	132 (18)
PDGFC		growth factor			0.00211	ACTA2,CCND1,CTNNB1,FGF2	164 (11)
Ifnar		group		0.912	0.00213	CCL2,CD274,IFITM3,IL6,ISG20,STAT1,STAT2,TGFBR1	125 (14)
ECSIT		transcription regulator		1.067	0.00546	CXCL8,IL6,PIM1,PLAUR	153 (18)
MAP3K8		kinase	Activated	2.639	0.00215	CCL20,CXCL2,CXCL3,CXCL8,GNG4,IL6,PLAT,PTGER4,SNN,SOCS3,STK17B	137 (17)
Mek		group		-0.032	0.00216	CCND1,CDCA7,CLDN2,CTNNB1,CXCL8,ETS1,GDF15,IL6,PLPP3,POLR3G,SORL1,SPRY2,TOP2A	177 (19)
D-glucose		chemical - endogenous mammalian		0.007	0.00218	ACTA2,BIRC5,CALD1,CCL2,CCL20,CCND1,CXCL2,CXCL8,DDIT4,EDN1,ELF3,FGF2,GDF15,GJA1,IL6,ITPR1,PARP1,PLAUR,SCD,SGK1,SLC37A4,SORBS1,TFRC,TGFA,TKT,UCP2	197 (17)
genistein		chemical drug		-1.515	0.00223	ADM,ATP6V1C1,BIRC5,CASP3,CCL2,CCND1,CXCL2,CXCL3,CXCL8,DUSP1,GAL3ST1,GDF15,HS2ST1,IL6,MAL2,PIM1,PLAT,RXRA,SCARB2,SMPD1,STK17B	131 (18)
trovafloxacin		chemical drug		1.912	0.00224	CXCL2,CXCL3,IL6,ISG20,MED20,NEDD4L,SOCS3	119 (10)
NR4A2		ligand-dependent nuclear receptor		-0.061	0.00224	ABL2,ADM,AREG,CCL20,CXCL8,KITLG,SOD1	129 (7)
ID2		transcription regulator		0.61	0.00224	ACTA2,CCND1,CDKN2C,CTNNB1,DUSP1,DUSP22,FGFR3,HOMER2,IL7R,JDP2,SDC1,SOCS3	123 (12)
PTGS1		enzyme			0.00225	ATP8A1,FGF2,GEM,IL6,PTGER4	180 (19)
tacrolimus		chemical drug		-0.602	0.00226	CASP3,CCL2,CCND1,CXCL2,CXCL8,DAPK1,EDN1,ELL2,HOMER2,ITPR1,LBH,PTPRJ,TNC	170 (17)
PI3K		group		0.108	0.00229	ADM,AKR1B10,BIRC5,CCL2,CD274,CLDN2,CXCL8,IL6	181 (18)

(family)							
MSTN		growth factor		0.842	0.00232	ACTA2,IGFBP3,IL6,MAP1LC3B,MYO5A,TNC	157 (19)
CAT		enzyme		-1.633	0.00232	ADM,BCL2A1,CCL2,CXCL8,IL6,TNC	194 (19)
L-methionine		chemical - endogenous mammalian			0.00232	ACTA2,AREG,CDKN2C,CXCL2,PLAT,TOP2A	
BRCA1		transcription regulator		-0.74	0.00235	AREG,BIRC5,CCND1,CTNNB1,DDIT4,GADD45A,GDF15,HNRNPD,PLSCR1,RBL2,SERPINE2,STAT1	224 (22)
lactacystin		chemical - protease inhibitor		-0.095	0.00236	ARHGDIB,CCL2,CCND1,CXCL8,DUSP1,GJA1,GNAI1,HMGB2,IL6,PRKCA,SNTB2,SUB1,VAV3	184 (21)
CCND1	-2.733	transcription regulator		-0.915	0.00236	AREG,BIRC5,CCNA1,CCND1,CDCA7,CDCA7L,CDKN2C,CPEB1,HECTD2,HOMER2,ITGB6,KIAA0101,MAP3K5,MORC4,NT5E,STBD1	214 (16)
EGR2		transcription regulator		-0.588	0.00239	BNIP3L,CAST,DHCR7,FGF2,IL1R2,IL7R,KITLG,PTHLH,SCD,SOCS3,TFRC	139 (15)
methotrexate		chemical drug		-0.245	0.0024	AMACR,BNIP3L,CASP3,CCL2,CCND1,CLDN2,CXCL8,DUSP1,EI24,FPR1,IGFBP3,IL6,SCD,SOCS3,SOD1	151 (23)
DOCK8		other		0.378	0.00243	EDN1,IL6,ISG20,PLAT,STAT1,STAT2,USP12	
5-hydroxytryptamine		chemical - endogenous mammalian		0.104	0.00243	CCL2,CXCL8,F2R,FGF2,HBEGF,IL6,UCP2	176 (21)
MAPK3		kinase		-0.378	0.00243	B4GALT1,CCND1,CTNNB1,CXCL8,IL6,PLAUR,SOD1	195 (20)
PRNP		other		-0.479	0.00243	CASP3,CCL2,CCND1,GJA1,IL6,PLAUR,PLPP3	196 (23)
FGF7		growth factor		-0.989	0.00243	CCND1,FGFR2,PLAU,SCD,SDC1,SPRY2,STAT1	160 (19)
linoleic acid		chemical - endogenous mammalian		-1.468	0.00243	DUSP1,EDN1,IL6,NEDD4L,RXRA,SCD,UCP2	203 (20)
okadaic acid		chemical toxicant		0.049	0.00246	CCND1,CXCL2,CXCL8,IL6,NR2F2,PIM1,PRKCA,RXRA	153 (18)
RARB		ligand-dependent nuclear receptor			0.00246	BCL2A1,CXCL2,CXCL8,ETS1,GADD45A,IGFBP3,IL6,STAT1	184 (18)
arsenite		chemical toxicant		1.34	0.00247	CCND1,CXCL3,CXCL8,DUSP1,GADD45A,HSPA4L,PTPRG,SFRP4,TGFB2	175 (23)
STK11		kinase		0.968	0.00247	CCL2,CCND1,CD274,CDC42,FGFR2,GADD45A,IL6,SORL1,STK17B,TGFA,TOP2A,VAV3	200 (20)
RIPK1		kinase		1.932	0.00253	CCL2,CXCL2,CXCL8,IL6	91 (16)
cis-urocanic acid		chemical drug		-0.152	0.00253	CXCL8,IGFBP3,IL6,PPIF	78 (7)
ADCY		group		-0.254	0.00253	CCNA1,FGF2,GJA1,IL6	165 (15)
FASN		enzyme		-1	0.00253	CXCL8,GSK3B,IL6,SCD	165 (15)
GADD45A	2.058	other		-1.131	0.00253	CXCL2,CXCL3,IL6,MMP7	105 (12)
Fibrin		complex			0.00253	ACTA2,CXCL8,IL6,PLAU	105 (13)
lipoxin A4		chemical - endogenous mammalian	Inhibited	-2.17	0.00256	ACTA2,CCL2,CCND1,CXCL8,IL6	174 (20)

pimagedine		chemical drug	Inhibited	-2.219	0.00256	CASP3,CAST,CXCL8,HBEGF,IL6	126 (15)
ASXL1		transcription regulator			0.00256	FAM162A,GPD2,HOXA7,HOXA9,SCD	
MAPKAPK2		kinase		1.709	0.00256	CCL2,CXCL8,IL6,PLAT,PLAU,TOP2A	147 (21)
DCN		other		1.016	0.00256	CASP3,CDKN1C,DUSP1,FGF2,IL6,SDC1	210 (21)
Gm-csf		group		-0.765	0.00256	BIRC5,CASP3,CXCL8,IL6,PIM1,SOCS3	141 (18)
LIF		cytokine		0.133	0.00258	ACTA2,AREG,CCND1,CXCL2,CXCL8,ELF3,FGF5,HBEGF,IL6,PIM1,RGS4,SOCS3,TNC	194 (23)
NR4A1		ligand-dependent nuclear receptor		-1.457	0.00259	ADM,BIRC5,CCND1,CTNNB1,EPCAM,IL6,KITLG,MMP7,NT5E,RXRA,SCD,UCP2	164 (19)
miR-30c-5p (and other miRNAs w/seed GUAAACA)		mature microrna		1.667	0.00263	GALNT7,GPD2,IL6,LMNB2,NT5E,PEX11B,PTPRK,SEC62,TMED10	
nitroglycerin		chemical drug			0.00268	CXCL8,IL6,PLAUR	182 (18)
Rac		group			0.00268	CCL2,CCND1,IL6	188 (18)
Traj18		other			0.00268	CXCL2,CXCL3,IL6	95 (7)
mir-515		microrna			0.00268	CXCL8,IL6,PTHLH	
SFRP4	-2.39	transmembrane receptor			0.00268	BIRC5,CCND1,CTNNB1	102 (7)
2-[[9-isopropyl-6-[[4-(2-pyridyl)phenyl]methylamino]purin-2-yl]amino]butan-1-ol		chemical reagent			0.00268	CCNA1,CCND1,IL6	
Ncoa6		transcription regulator			0.00268	AREG,SCD,TGFA	
rosmarinic acid		chemical - endogenous non-mammalian			0.00268	ACTA2,CXCL8,IL6	137 (15)
oleic acid		chemical - endogenous mammalian		-1.088	0.0028	DEGS1,DUSP1,EDN1,GADD45A,IGFBP3,IL6,RXRA,SCD,UCP2	163 (17)
phorbol esters		chemical - other		-0.216	0.00284	CERK,CXCL8,DUSP1,FGFR2,IL6,PLAT,PLAU,PRKCA	179 (24)
SASH1		other		0.378	0.00287	EDN1,IL6,ISG20,PLAT,STAT1,STAT2,USP12	86 (7)
TLR5		transmembrane receptor	Activated	2.231	0.00289	CCL20,CXCL2,CXCL3,CXCL8,IL6	117 (15)

fluvastatin		chemical drug		-1.951	0.00289	CCND1,CXCL8,EDN1,IL6,PLAT	178 (19)
GNB2		enzyme			0.00289	CXCL3,DUSP1,IL1R2,PLAU,PTGER4	
hyaluronic acid		chemical - endogenous mammalian	Activated	2.117	0.00297	BIRC5,CXCL2,CXCL3,CXCL8,IL6,PLAU,PTHLH,SOCS3,TGFB2	141 (15)
SPP1		cytokine		0.979	0.00298	CCL2,CCL20,CXCL2,CXCL3,CXCL8,DHCR7,FGFR2,HOMER2,IL6,MMP7,PLAU,TGFBR1	137 (19)
8-bromo-cAMP		chemical reagent		0.447	0.00298	ADM,CCNA1,CDC42,DUSP1,FGF2,GJA1,GNAI1,IL6,KITLG,PLAT,SGK1,TGFB2	244 (21)
NfkB-RelA		complex		1.994	0.003	CCL2,CXCL3,CXCL8,IL6	
miR-30a-3p (and other miRNAs w/seed UUUCAGU)		mature microrna		0	0.003	ARMC8,LIMA1,RAB8B,VEZT	
SLPI		other		-0.339	0.003	CCND1,IGFBP3,IL6,SMAD2	173 (21)
VAV3	-3.172	cytokine		-0.343	0.003	AREG,HBEGF,IL6,TGFA	157 (16)
IL22		cytokine		0.788	0.00304	ACTA2,CCND1,CD274,CXCL2,CXCL8,IL6,RBL2,SOCS3	118 (15)
KLF5		transcription regulator		-0.254	0.00311	ACTA2,BIRC5,CCND1,CTNNB1,DUSP1,UCP2	194 (21)
Go 6976		chemical - kinase inhibitor		-0.764	0.00311	CCND1,CXCL2,CXCL3,CXCL8,ETS1,PRKCA	110 (14)
LEP		growth factor		0.757	0.00318	BCL2A1,BIRC5,CASP3,CCL2,CCND1,EDN1,FGFR2,GADD45A,GSK3B,IGFBP3,IL1R2,IL6,MAP1LC3B,MMP7,PLAT,PRKAB2,SCD,SMPD1,SOCS3,SOD1,SPARC,UCP2	197 (18)
GLI1		transcription regulator		-0.432	0.0032	BCL2A1,CCND1,DEGS1,FGF1,IL1R2,IL6,IMPA2,NR2F2,PAPSS2,PIM1,PTHLH,RXRA,TNC	74 (7)
atorvastatin		chemical drug	Inhibited	-2.416	0.0032	CCL2,CXCL8,DHCR7,DUSP1,EDN1,ELF3,F2R,FAM175A,GJA1,IL6,PLAT,SMAD2,SOD1	124 (16)
CD38		enzyme		-0.042	0.00324	BNIP3L,CRELD2,ELL2,FAM162A,IL1R2,IL6,NABP1,NT5E,PIM1,SDC1,SOCS3	
hexamethylene bisacetamide		chemical reagent	Activated	2.213	0.00326	BCL2A1,FUT8,POLR1D,SNRPB,TFRC	
PRKAA		group		0.314	0.00326	BIRC5,DUSP1,HYOU1,IL6,STAT1	210 (24)
carbamylcholine		chemical drug		0.2	0.00326	CCND1,GEM,ITPR1,PTHLH,TGFA	185 (23)
oxaliplatin		chemical drug		-0.307	0.00326	BIRC5,CASP3,GDF15,MMP7,STAT1	211 (22)
AGTR1		g-protein coupled receptor	Inhibited	-2	0.00326	CASP3,CCND1,DUSP1,EDN1,IL6	141 (20)
miR-16-5p (and other miRNAs		mature microrna	Activated	2.496	0.00334	CADM1,CCND1,FGF2,GALNT7,KITLG,NAA15,NFIA,PPIF,PURA,RTN4,SERPINE2,UCP2,VTI1B	

w/seed AGCAGCA)							
melatonin		chemical - endogenous mammalian	Inhibited	-2.18	0.00335	CASP3,CCL2,CXCL8,EDN1,GJA1,IL6,PLAT,SOD1,SPARC	139 (19)
MAP2K6		kinase		1.084	0.00335	ACTA2,CCL2,CCND1,CXCL8,IL6,PLAU,STAT1	165 (20)
AHR		ligand-dependent nuclear receptor		0.2	0.00338	ACTA2,ADM,AREG,CCND1,CDKN2C,CTNNB1,EDN1,EFEMP1,FGFR2,GADD45A,HECTD2,IL6,PLAT,POLA1,SDC1,SOD1,TGFB2,TNFRSF19	186 (19)
MTOR		kinase		-0.588	0.00339	ADM,BIRC5,CASP3,CCND1,CD274,CNP,DDIT4,IL6,MAP1LC3B,PDHA1,PIM2,PRKAR2B,SMPD1,SOCS3,SOD1,STAT1	143 (17)
mir-17		microrna		1.954	0.00341	CCND1,MAP3K5,PURA,RBL2,SMAD2,TGFBR1	
CpG ODN 1668		chemical reagent		1.17	0.00341	CXCL3,CXCL8,IL6,SOCS3,STAT1,STAT2	106 (14)
EGLN1		enzyme		-0.896	0.00341	ADM,AREG,CCL20,IL6,TGFB2,TGFBR1	159 (15)
5-fluorouracil		chemical drug		0.786	0.00347	BIRC5,BNIP3L,CASP3,CCNA1,CCND1,FGFR2,GDF15,GTF2I,HNRNPC,PTGES3,RPS23,SNRPB,SUB1,TGFA	220 (24)
Ifn gamma		complex		0.769	0.00348	CASP3,CCL2,CXCL8,EDN1,GBP1,SOCS3,STAT1,TGFB2	165 (17)
XBP1		transcription regulator		-0.721	0.00348	CXCL2,CXCL8,DNAJC10,EDEM1,ETS1,HYOU1,IL24,IL6,MAP1LC3B,SEC63,SOD1,SPARC,SPCS3	159 (16)
CTSG		peptidase			0.0035	CCL2,FPR1,MMP7	142 (10)
mir-373		microrna			0.0035	CXCL8,IL6,PTHLH	91 (3)
AIF1		other			0.0035	ACTA2,CCND1,IL6	98 (7)
RALA		enzyme			0.0035	CTNNB1,PLAU,PLAUR	164 (18)
BTC		growth factor			0.0035	CCL20,CXCL8,IL6	206 (21)
CXCL1		cytokine			0.0035	IL6,MRAS,SOCS3	95 (11)
metoprolol		chemical drug			0.0035	EDN1,GJA1,IL6	21 (3)
HSPD1		enzyme		1.932	0.00352	CXCL2,CXCL3,IL6,SOCS3	118 (18)
Ikb		group		1	0.00352	CCL2,CCND1,CXCL3,IL6	96 (10)
dexamethasone phosphate		chemical drug		0.152	0.00352	DDIT4,DUSP1,IL6,SGK1	95 (7)
calpain		complex		0	0.00352	CCND1,CTNNB1,GJA1,IL6	197 (22)
BGN		other		-1	0.00352	CCL2,CCND1,CXCL3,CXCL8	190 (19)
MAP3K3		kinase			0.00352	ADSSL1,CXCL8,IL6,TGFB2	181 (20)
corticosterone		chemical - endogenous mammalian		-1.394	0.00356	BACE1,CALD1,CCND1,DDIT4,EDN1,FGF2,IL6,SGK1,UCP2	218 (22)
STAT5A		transcription regulator		0.994	0.00364	BCL2A1,CASP3,CCND1,GADD45A,HOXA13,IFITM2,IL24,IL6,IL7R,MAL2,MMP7,PIM1,QPRT,SLC2A3,SOCS3,TROVE2	151 (19)
SYK		kinase	Activated	2.2	0.00366	CCL2,CCND1,CXCL8,EDN1,IL6	182 (16)
ENG		transmembrane receptor		0.455	0.00366	ACTA2,PLAU,PTPRJ,SMAD2,TGFBR1	168 (16)
ANGPT1		growth factor		-0.651	0.00366	BIRC5,CCL2,CCND1,DUSP1,EFNB2	121 (17)

MEN1		transcription regulator			0.00366	CCND1,CDKN2C,CTNNB1,HOXA7,HOXA9	123 (16)
PDLIM2		other		1.463	0.00371	CCL20,CCND1,CRISPLD2,CXCL8,HBEGF,IGFBP3,KYNU,STAT1	139 (16)
KIT		transmembrane receptor			0.00371	BIRC5,C3AR1,CXCL3,IL6,KITLG,NF1,SOCS3,STAT1	196 (19)
CD14		transmembrane receptor	Activated	2.364	0.00373	BCL2A1,CCL2,CXCL2,CXCL8,IL6,SOCS3	126 (16)
SIRT6		enzyme		1.452	0.00373	BIRC5,CXCL8,GSK3B,IL6,PLPP3,SCD	193 (24)
MAP2K7		kinase			0.00373	CCND1,CXCL8,DUT,EFNB2,GJA1,PLAU	163 (17)
MAPK8		kinase		0.69	0.00375	B4GALT1,CCND1,CXCL8,DUSP1,ETS1,HIPK3,IL6,MTHFR,PLAU,PLAUR,RGS4	162 (21)
nitric oxide		chemical - endogenous mammalian		0.424	0.00375	BIRC5,CCND1,CXCL8,DUSP1,EDN1,GADD45A,IL6,IL7R,SGK1,SOD1,TFRC	209 (21)
IL5		cytokine		0.756	0.0039	AREG,ATXN1,BNIP3L,CCL2,CRELD2,CXCL8,ELL2,FAM162A,GADD45A,HBEGF,IL1R2,ITGB6,NABP1,PIM1,PPIF,SGK1	161 (17)
CCL2	2.984	cytokine		0.172	0.0039	ACTA2,BIRC5,CCL2,CCND1,CXCL3,CXCL8,IL6	113 (16)
TLR2		transmembrane receptor		1.983	0.00393	CAST,CCL2,CXCL2,CXCL3,CXCL8,DUSP1,GJA1,IL6,SCD,SOCS3,TRIM38	113 (17)
cyclosporin A		biologic drug		-1.314	0.00395	ACTA2,CASP3,CCL2,CCND1,CXCL8,DDIT4,EDN1,ELF3,ELL2,GJA1,HS2ST1,IL6,ITGB6,ITPR1,NDFIP2,PRKCA,PRKCH,PTHLH,RXRA,SCD,SOD1,TGFBR1	164 (19)
CEBPA		transcription regulator		1.068	0.00213	AKAP12,AKR1B10,BCL2A1,C3AR1,CCL20,CXCL8,DHCR7,EFNB2,GADD45A,GBP1,GJA1,GLIPR1,GSK3B,IGFBP3,IL6,PTPRE,SCD,SOCS3,SOD1,TGFB2,TNFRSF19,VCAN	148 (22)
MAP2K4		kinase		0.651	0.00408	BIRC5,CCND1,CXCL8,GADD45A,IL6,PLAU	169 (17)
CCL3		cytokine		0.775	0.0041	CCL2,CCL20,IL6,STAT1	111 (15)
DPP4		peptidase		0.132	0.0041	CTNNB1,FGF2,PLAU,TOP2A	176 (20)
ACKR3		g-protein coupled receptor			0.0041	ADM,CCND1,HBEGF,IL24	101 (7)
1,2-dipalmitoylphosphatidylcholine		chemical - endogenous mammalian			0.00414	CCL2,CXCL8	146 (14)
Rsk		group			0.00414	CXCL2,CXCL8	167 (21)
chitinase		group			0.00414	CCL2,CXCL8	
CC8490		chemical drug			0.00414	CXCL8,IL6	
CTDNEP1		phosphatase			0.00414	CTNNB1,IFITM3	
TNIP3		other			0.00414	CXCL8,IL6	121 (9)
DNAJB4		other			0.00414	CCND1,STAT1	91 (7)
ZFYVE9		peptidase			0.00414	ACTA2,SMAD2	
FAM57A		other			0.00414	CASP3,CCND1	
WNT5B		other			0.00414	CCND1,RBL2	
MEP1A		peptidase			0.00414	CXCL8,IL6	81 (7)

HSPB6		other			0.00414	CCL2,CXCL8	168 (14)
CCL22		cytokine			0.00414	CXCL2,CXCL3	
IL36RN		cytokine			0.00414	CXCL8,IL6	78 (8)
SNRK		kinase			0.00414	CCND1,CTNNB1	102 (7)
LPAR3		g-protein coupled receptor			0.00414	CXCL8,IL6	105 (7)
S3I-1757		chemical reagent			0.00414	BIRC5,CCND1	136 (17)
N-hydroxy-2,2-diphenylacetamide		chemical reagent			0.00414	EDN1,IL6	97 (4)
cyclooxygenase inhibitor		chemical drug			0.00414	GDF15,IL6	
clobenprobit		chemical reagent			0.00414	CCL2,IL6	57 (5)
chlorophyllin		chemical toxicant			0.00414	CCL2,CXCL8	
procysteine		chemical drug			0.00414	CCL2,IL6	115 (14)
Vi capsular polysaccharide		chemical drug			0.00414	CXCL8,IL6	118 (7)
RELA		transcription regulator		1.078	0.0000543	ACTA2,ARHGDIB,BACE1,BCL2A1,BIRC5,BNIP3L,CASP3,CCL2,CCL20,CCND1,CD274,CXCL2,CXCL3,CXCL8,DUSP1,EDN1,ELF3,FGF2,GBP1,GDF15,IL6,IL7R,PLAU,SAA2,SERPINE2	173 (16)
JUNB		transcription regulator		1.119	0.00185	CCND1,CD274,CXCL2,CXCL3,DUSP1,IL6,PLAU,PLAUR,SCD,SGK1	161 (20)
trans-hydroxytamoxifen		chemical drug		-1.667	0.00423	AREG,DDIT4,DUSP1,KYNU,PDZK1,SERPINB9,SMPD1,TGFB2,TOP2A	158 (7)
Histone h3		group			0.00431	AKAP12,BIRC5,CCL2,CCND1,CDKN2C,CTNNB1,CXCL8,FGF5,FGFR2,HOXA7,HOXA9,IFITM3,IGFBP3,IL6,PRDM8,RGS4,SATB2,SCD,SGK1,SOCS3,TGFBR1	189 (16)
PTGS2		enzyme	Activated	2.344	0.00432	AREG,CCL2,CCND1,CDKN2C,CXCL3,CXCL8,DUSP1,IGFBP3,IL6,MMP7,PTGER4	167 (17)
IL6ST		transmembrane receptor		-0.64	0.00445	CCND1,CLDN2,IL6,PIM1,PIM2,SOCS3	138 (19)
2-deoxyglucose		chemical drug		-0.764	0.00445	BACE1,CASP3,CCND1,CTNNB1,DDIT4,IL6	204 (22)
trichloroethylene		chemical toxicant		-0.816	0.00445	CASP3,CSNK2A1,IGFBP3,NCKAP1,RTN4,SPARC	
rotenone		chemical toxicant		-0.816	0.00445	CASP3,CCND1,CXCL2,GJA1,IL6,UCP2	173 (19)
benzene		chemical toxicant		-0.816	0.00445	CASP3,CSNK2A1,IGFBP3,NCKAP1,RTN4,SPARC	
selumetinib		chemical drug			0.00446	BIRC5,CCND1,CD274	132 (17)

MDGA2		other			0.00446	BCL2A1,EI24,IL6	
miR-19b-3p (and other miRNAs w/seed GUGCAAA)		mature microrna			0.00446	BIRC5,CCND1,HIPK3	99 (7)
IL1RAP		transmembrane receptor			0.00446	CCL20,CXCL8,IL6	107 (14)
GNA13		enzyme			0.00446	ACTA2,CXCL8,MAP3K5	180 (20)
PDCD4		other			0.00446	CASP3,IL6,PLAU	199 (19)
prazosin		chemical drug			0.00446	CCL2,DUSP1,IL6	174 (21)
poly-L-lysine		chemical reagent			0.00446	CCL2,CXCL8,IL6	170 (19)
loxoribine		chemical drug			0.00446	CXCL8,IL6,SDC1	141 (13)
C5		cytokine		0.86	0.00447	CCL2,CCND1,CXCL2,CXCL3,CXCL8,EFNB2,GDF15,IL6,PLAT	155 (17)
TOB1		transcription regulator		1.119	0.0366	CCND1,KAT8,MBNL2,PLAC8	
bee venom		chemical - endogenous non-mammalian		0.883	0.0045	AREG,CXCL8,GADD45A,HSPA4L,NLRP3,SNTB2,SOCS3,TOP2A	
vorinostat		chemical drug		0.938	0.00453	BIRC5,CASP3,CCND1,CLDN2,DUSP1,EDN1,IL6,PURA,SOCS3,TGFBR1,TOP2A	191 (20)
HNF1B		transcription regulator		1.134	0.00423	DUSP1,IGFBP3,ITGB6,MMP7,PLAU,PLAUR,RNASE4,SGK2,SPARC	
KLF6		transcription regulator		1.221	0.0299	CCL2,CXCL2,CXCL8,PLAU,TGFBR1	
carrageenan		chemical - endogenous non-mammalian		1.106	0.00456	CXCL2,CXCL3,CXCL8,IL6,PARP1	206 (17)
Laminin		complex		-0.596	0.00456	ACTA2,CCL2,CCND1,PLAU,TGFB2	191 (23)
mir-146		microrna		-1.185	0.00456	CCL2,CXCL8,DUSP1,IL6,STAT1	125 (15)
fasudil		chemical drug		-1.982	0.00456	ACTA2,CASP3,CCL2,IL6,TGFB2	199 (15)
RCE1		peptidase			0.00456	GJA1,HBEGF,LMNB2,REEP5,TGFB2	
5-azacytidine		chemical drug		1.38	0.0047	DUSP1,GADD45A,GDF15,HBEGF,MECP2,PLAU,PTPRG,PURA,SOCS3,TGFBR1	152 (9)
ozone		chemical toxicant		1.948	0.00475	CXCL2,CXCL3,CXCL8,IL6	110 (14)
NfkB1-RelA		complex		1.303	0.00475	CCL2,CCND1,CXCL8,IL6	
PSMD10		transcription regulator		0	0.00475	CCND1,CXCL8,IL6,MRAS	200 (22)
bisindolylmaleimide		chemical - kinase inhibitor		-0.655	0.00475	CXCL8,FGF2,IL6,PRKCH	159 (19)

VDR		transcription regulator		1.246	0.0458	CXCL8,GADD45A,IGFBP3,IL6,TCF3,TGFB2,UCP2	
anakinra		biologic drug			0.00475	CDC42SE2,EDN1,IL6,PIM1	119 (11)
CHI3L1		enzyme			0.00475	CALD1,CXCL8,TMEM158,TNC	
SOX2		transcription regulator		-0.927	0.00479	BIRC5,CCND1,CTNNB1,DUSP1,EFEMP1,ELF3,EPCAM,EXT2,FGF5,GJA1,GSK3B,KITLG,NCKAP1,PRKCH,SGK2,TGFB2,TNFRSF19	28 (2)
rosiglitazone		chemical drug		-1.086	0.0048	ABCC9,CASP3,CCL2,CCND1,CTNNB1,CXCL8,ETS1,FGF1,GBP1,IL6,IL7R,MUT,PDHA1,PLPP3,SCD,SGK1,SOCS3,SOD1,SORBS1,TNC,UCP2	182 (17)
LEF1		transcription regulator		-0.025	0.00485	BIRC5,CASP3,CCND1,IL7R,MMP7,SGK1	160 (21)
NFATC3		transcription regulator			0.00485	ACTA2,CASP3,DDIT4,EDN1,GJA1,IL6	82 (7)
tamoxifen		chemical drug		1.742	0.00486	ADM,BIRC5,CCND1,CXCL8,F2R,GDF15,IGFBP3,IL6,ISG20,PDZK1,RBL2,SCD,SLC2A3,TGFA,UCP2	214 (21)
STAT5B		transcription regulator		-0.469	0.00496	ASAP1,CASP3,CCND1,GADD45A,IL24,IL6,PIM1,SCD,SLN,SOCS3,TROVE2	140 (17)
tunicamycin		chemical - endogenous non-mammalian		0.961	0.00504	CCND1,CXCL2,CXCL3,DDIT4,EDEM1,ETS1,GPT2,IL6,MTHFR,SCD,SIGMAR1,TGFA	160 (19)
Insulin		group		-1.536	0.00504	BACE1,BIRC5,CCL2,CCND1,DDIT4,DUSP1,EDN1,GSK3B,IGFBP3,IL6,PRKCA,PTHLH,SCD,SLC2A3,SLC37A4,SORBS1,TGFA,UCP2	185 (21)
D-fructose		chemical - endogenous mammalian		0.651	0.00506	ACTA2,CXCL2,IL6,SCD,TKT	128 (7)
TSH		complex		0.625	0.00527	CCND1,CXCL8,GNAI1,IGFBP3,IL6,SOCS3	141 (21)
miR-17-5p (and other miRNAs w/seed AAAGUGC)		mature microrna		0.127	0.00527	BIRC5,CCND1,CXCL8,HIPK3,PURA,RBL2	173 (13)
diethylstilbestrol		chemical drug		0.792	0.0054	AREG,ARHGDIB,CCND1,GADD45A,GTF2I,HBEGF,HOXA9,IGFBP3,IL1R2,PTTG1IP,SPARC,TGFA,VEZF1	207 (21)
HNRNPA2B1		other			0.00545	CADM1,CUX1,DNER,GDF15,GJA1,HMGB3,IL6,MSRB3,TGFB2,VCAN	
COMMD3-BMI1		transcription regulator		1.253	0.00456	CTNNB1,HOXA13,HOXA7,HOXA9,PRKCA	
THBS4		other		0	0.00546	CRELD2,HYOU1,TGFB2,TNC	
diallyl disulfide		chemical - endogenous non-mammalian		-0.152	0.00546	CASP3,GDF15,GJA1,NT5E	
nilvadipine		chemical drug		-1	0.00546	CASP3,FGF2,GNG4,SYNGR1	
wortmanni		chemical -		-0.73	0.00548	ACTA2,BIRC5,CASP3,CCL2,CTNNB1,CXCL8,F2R,IL6,NT5E,PL	142 (18)

n		kinase inhibitor				AU,SOCS3,TFRC	
Sb202190		chemical - kinase inhibitor	Inhibited	-2.354	0.00556	BIRC5,CCL2,CCND1,CXCL8,FGFR2,IL6,MAPKAP1,PTHLH,SGK1	188 (22)
xanthine		chemical - endogenous mammalian			0.00557	DUSP1,PLAU,PLAUR	136 (18)
ginsenoside Rb1		chemical - endogenous non-mammalian			0.00557	CXCL8,HBEGF,SCD	96 (7)
tert-butyl hydroperoxide		chemical toxicant			0.00557	CASP3,CXCL8,GJA1	196 (20)
lonafarnib		chemical drug			0.00557	BCL2A1,BIRC5,CCND1	178 (18)
Betacatenin/TCF		complex			0.00557	CCND1,GJA1,MMP7	
FPR2		g-protein coupled receptor			0.00557	CCL2,CXCL8,IL6	145 (21)
N-(3-oxododecanoyl)-homoserine lactone		chemical reagent			0.00557	CXCL2,CXCL8,IL6	136 (16)
gallic acid		chemical - endogenous non-mammalian			0.00557	CXCL8,IL6,PLAT	158 (20)
diacylglycerol		chemical - endogenous mammalian			0.00557	PRKCA,PRKCH,UCP2	
ciglitazone		chemical drug		-0.007	0.00558	ACTA2,CCL2,CCND1,CXCL8,IL6,PARP1,SOD1	141 (19)
MBD3		enzyme			0.00558	CCND1,CSNK2A1,CTNNB1,DIXDC1,GSK3B,SCD,TCF3	69 (7)
CDK2AP1		other			0.00561	CSNK2A1,CTNNB1,DIXDC1,GSK3B,TCF3	93 (5)
SIRT1		transcription regulator		0.97	0.00564	BIRC5,CCND1,CTNNB1,EDEM1,FGF5,GADD45A,IL6,KALRN,NEDD4L,NEGR1,NF1,PARP1,SFRP4,UCP2	235 (26)
IRF3		transcription regulator		0.395	0.0057	CCL2,CD274,CXCL8,FGF1,GBP1,IFITM3,IL6,ISG20,PLAC8,SORL1,STAT1,STAT2	129 (16)
CXCL12		cytokine		0.152	0.0057	ACTA2,CCL2,CCND1,CDKN1C,CTNNB1,CXCL8,HIPK3,HNRNPD,IL24,IL6,PLAU,SOCS3	182 (21)
Fcer1		complex	Activated	2.41	0.00571	BCL2A1,CCL2,CXCL3,CXCL8,IL6,ITPR1	149 (17)
NRIP1		transcription regulator		0.075	0.00571	AIFM2,AREG,CCND1,IL6,PPP1R3B,SCD	112 (11)
AICAR		chemical - endogenous mammalian		-1.767	0.00571	ACTA2,CCNA1,CTNNB1,HYOU1,SCD,SOCS3	204 (23)
ATP		chemical - endogenous mammalian		1.964	0.00574	BIRC5,CCND1,CXCL2,CXCL3,CXCL8,DUSP1,HBEGF,IL6	156 (17)

Mapk		group		-0.97	0.00574	CCL2,CCND1,CXCL8,GJA1,IL6,MMP7,SOD1,STAT1	161 (16)
LIPE		enzyme			0.00586	AMACR,EDN1,GJA1,KITLG,PDHA1,RXRA,SCARB2,SCD,TKT	
PARP1	-2.653	enzyme		-0.012	0.00608	CCND1,CD274,CXCL3,IL6,PARP1,POLA1,STAT1,TGFA	220 (21)
CYR61		other		-0.665	0.00618	CCL2,CCND1,CTNNB1,CXCL8,PLAU,RBL2	169 (18)
KIAA1524		other		-1.353	0.00618	GADD45A,GRSF1,LASP1,PDLIM7,PLAUR,SERPINE2	
Collagen type II		complex		-0.372	0.00619	CCL20,CXCL2,CXCL3,IL6,MMP7	165 (16)
ITGB2		transmembrane receptor		-1.406	0.00619	ACTA2,BCL2A1,CXCL2,CXCL3,IL6	147 (16)
PRKAR1A		kinase		1.181	0.00624	CCND1,CDC42,PRKACA,PRKAR2B	89 (7)
miR-92a-3p (and other miRNAs w/seed AUUGCAC)		mature microrna		0	0.00624	CCND1,CDKN1C,HIPK3,IL6	91 (9)
suramin		chemical drug		-1	0.00624	CCL2,CXCL8,FGF2,IL6	172 (19)
ADA		enzyme		-1.091	0.00624	CXCL2,CXCL3,IL6,PLAT	77 (7)
JAG1		growth factor		-1.103	0.00624	ACTA2,CCND1,NR2F2,PTPRK	121 (7)
mir-25		microrna		-1.109	0.00624	GADD45A,HIPK3,IL6,TGFBR1	86 (7)
TAB1		enzyme		-1.205	0.00624	CCL20,CXCL8,GBP1,IL6	108 (15)
JAK		group			0.00624	CCL2,IL6,PTGER4,SOCS3	133 (16)
bryostatin 1		chemical drug			0.00624	AREG,CXCL8,IL6,PRKCA	170 (23)
PRDM1		transcription regulator		-0.961	0.00629	BCL2A1,CCL20,CRISPLD2,CXCL2,CXCL3,DDIT4,FAM167A,IL24,IL6,ITPR1,NLRP3,PLAC8,TRIM38	165 (19)
TRAF2		enzyme		1.866	0.00638	ADM,CCL2,CXCL3,CXCL8,EPCAM,IL6,REEP3	97 (15)
NFYA		transcription regulator			0.00638	CDC42,FGFR2,GADD45A,POLA1,RGS4,SCD,TOP2A	68 (7)
IFI16		transcription regulator		1.29	8.71E-08	AREG,CCL2,CCL20,CCND1,CXCL8,EDN1,GADD45A,IL6,IL7R,KPNA1,PIM1,SOD1,STAT2	185 (17)
eritoran		chemical drug			0.00677	CXCL8,IL6	105 (12)
L-alpha-lysophosphatidylcholine, palmitoyl		chemical - endogenous mammalian			0.00677	CCL2,CXCL8	94 (10)
1-palmitoyl-2-oleoylglycero-3-phosphoglycerol		chemical reagent			0.00677	CXCL8,IL6	125 (17)
heparan sulfate		chemical - endogenous mammalian			0.00677	FGF2,IL6	150 (19)
Sphk		group			0.00677	CCL2,IL6	126 (18)

RNF187		enzyme			0.00677	CCND1,HBEGF	
TLR10		transmembrane receptor			0.00677	CXCL8,IL6	119 (18)
BPI		transporter			0.00677	CXCL8,IL6	78 (7)
WBSCR22		enzyme			0.00677	CXCL8,IL6	95 (7)
Tlr12		other			0.00677	CXCL8,IL6	117 (16)
butyl N-[3-[4-(imidazol-1-ylmethyl)phenyl]-5-(2-methylpropyl)thiophen-2-yl]sulfonylcarbamate		chemical reagent			0.00677	CASP3,IL6	
AHSG		other			0.00677	CXCL8,IL6	140 (14)
SUB1	-3.772	transcription regulator			0.00677	CCND1,GADD45A	
XAF1		other			0.00677	BIRC5,CASP3	122 (7)
FUT4		enzyme			0.00677	CASP3,PARP1	
OTUD7B		peptidase			0.00677	ACTA2,CXCL8	137 (17)
CCL15		cytokine			0.00677	CXCL8,IL6	125 (15)
SENP6		peptidase			0.00677	CXCL8,IL6	94 (9)
ECT2		other			0.00677	CCND1,CDC42	
DVL3		other			0.00677	CTNNB1,GSK3B	
TNFAIP8		other			0.00677	CXCL3,IL6	
farnesyl transferase		complex			0.00677	GJA1,HBEGF	118 (7)
Muc1		transmembrane receptor			0.00677	CCND1,CXCL2	
sulfamethoxazole/trimethoprim		chemical drug			0.00677	CXCL8,IL6	
SD-282		chemical - kinase inhibitor			0.00677	CASP3,CXCL8	
paxilline		chemical - endogenous non-mammalian			0.00677	BIRC5,IL6	82 (7)
grepafloxacin		chemical drug			0.00677	CXCL8,IL6	78 (7)
ferric chloride		chemical toxicant			0.00677	PLAT,PLAU	
L-homocysteine		chemical - endogenous			0.00677	CCL2,CXCL8	74 (6)

		mammalian					
ginsenoside Rg1		chemical - endogenous non-mammalian			0.00677	BIRC5,CASP3	101 (10)
CFTR		ion channel		-1.706	0.00681	CXCL3,CXCL8,ITPR1,SCD,SLC37A4,SOCS3,STAT1	163 (18)
JAK1		kinase		1.015	0.00681	CCL2,OSMR,SOCS3,STAT1,STAT2	102 (14)
FOXO4		transcription regulator		0.537	0.00681	CCND1,GADD45A,RBL2,SCD,SGK1	106 (7)
LPL		enzyme		0.347	0.00681	CASP3,CCL2,CXCL8,GBP1,IL6	113 (14)
TNFAIP3		enzyme	Inhibited	-2.18	0.00681	BIRC5,CCL20,CXCL8,IL6,SOCS3	118 (14)
amphotericin B		chemical drug			0.00682	CCL2,CXCL8,IL6	153 (11)
2-(4-acetoxyphenyl)-2-chloro-N-methylethylamine		chemical reagent			0.00682	CCL2,CXCL8,IL6	133 (14)
1'-acetoxychavicol acetate		chemical reagent			0.00682	BCL2A1,BIRC5,CCND1	159 (15)
C1QA		peptidase			0.00682	C3AR1,F2R,IL6	
AIMP1		cytokine			0.00682	CCL2,CXCL2,CXCL8	116 (14)
MDK		growth factor			0.00682	ACTA2,CXCL3,PLAT	
ROCK1		kinase			0.00682	CCND1,EDN1,ETS1	154 (21)
STK3		kinase			0.00682	BIRC5,CCND1,IL6	179 (20)
TBX3		transcription regulator			0.00682	GJA1,JDP2,LBH	
IL36G		cytokine			0.00682	CCL20,CXCL8,IL6	132 (18)
NF2		other			0.00682	CCND1,CTNNB1,PLAUR	176 (20)
BCL10		transcription regulator			0.00682	CXCL2,CXCL8,IL6	101 (15)
CNR2		g-protein coupled receptor			0.00682	CCL2,CCND1,CXCL8	159 (18)
L-685,458		chemical - protease inhibitor			0.00682	EFNB2,NR2F2,PTPRK	121 (7)
deguelin		chemical drug			0.00682	BIRC5,CXCL8,PARP1	164 (11)
cobalt		chemical toxicant			0.00682	FGF2,IL6,IREB2	
berberine		chemical drug		-0.943	0.00682	BIRC5,CASP3,CCL2,CCND1,CXCL8,GLS,IL6,UCP2	139 (21)
WNT1		cytokine		-0.928	0.00683	ACTA2,BIRC5,CCND1,CSNK2A2,CTNNB1,LBH,MRAS,RBL2,SERPINE2	215 (22)
HOXA9	-2.087	transcription regulator		-0.186	0.00702	CCL2,HMGN2,HOXA9,IL7R,MSI2,NFIA,PIM1,PTPRG,SERPINB9,SRSF11,WSB1	

IL17C		cytokine		1.966	0.00708	CCL20,CXCL8,IL6,SGK1	157 (14)
NPPA		other		1.91	0.00708	ADM,CCND1,DUSP1,EDN1	166 (20)
dichlorovinylcysteine		chemical toxicant		0.085	0.00708	CCND1,HBEGF,IL6,TGFA	114 (5)
deoxynivalenol		chemical toxicant			0.00708	CLDN2,CXCL8,IL6,PAPSS2	128 (19)
CD44		enzyme		-0.235	0.00723	BIRC5,CCND1,GADD45A,IFITM2,IL1R2,IL6,KCTD10,MMP7,PLAU,PLPP3,PTHLH,STAT2	167 (18)
IL13		cytokine		-1.32	0.00729	ARNTL2,BCL2A1,C3AR1,CASP3,CCL2,CCL20,CLDN2,CXCL2,CXCL3,CXCL8,FAM162A,HOMER2,IL1R2,IL6,KITLG,MAP3K7CL,PLAU,RIPK2,SOCS3	142 (15)
pirinixic acid		chemical toxicant	Inhibited	-3.245	0.00744	AKR1B10,CCL2,CCND1,CXCL3,CXCL8,GADD45A,GPD2,HOXA7,IFITM3,IL6,KPNA1,NAP1L1,PCSK5,PSMB6,PSMC2,RTN4,RXRA,SCD,TCEB1,UCP2,USP14	137 (18)
E2F4		transcription regulator		-0.152	0.00754	CCNA1,CCND1,CDKN2C,DUT,HMGB3,KIAA0101,PLSCR1,POLA1,PPP1R8,RBL2,SMC2,TOP2A,ZNF267	
BCL2		transporter		0.554	0.00763	CASP3,CCND1,CXCL8,GADD45A,IL6,PLAUR,RBL2,TGFB2	192 (22)
NR3C2		ligand-dependent nuclear receptor		-0.762	0.00763	ABCC9,BCL2A1,DDIT4,EDN1,FGF2,IL6,NFIA,SGK1	185 (19)
diethylnitrosamine		chemical toxicant		0.168	0.00774	CCND1,EPCAM,IL6,PLSCR1,PRKCA,SLC37A4,SOD1	203 (18)
IL7R	2.262	transmembrane receptor			0.00774	C1orf116,CXCL8,DAPK1,HOXA9,IL6,PIM1,UST	98 (10)
TRIM24		transcription regulator		1.408	0.0459	CNOT6,KIAA0101,PLAC8,PTHLH,STAT1,STAT2	
Hdac		group		-1.207	0.00789	AREG,BIRC5,CCND1,CTNNB1,CXCL8,EDN1,IGFBP3,IL6,NCKAP1,SPRY2	228 (25)
YY1		transcription regulator			0.00796	ACTA2,BIRC5,CDKN2C,GBP1,HNRNPC,POLA1,PPP4R2,RAB8B,SYNCRIP,TGFB2,TGFBR1,TOP2A,USP14,WSB1	165 (11)
TIRAP		other		1.994	0.008	CXCL2,CXCL3,CXCL8,IL6	98 (17)
Focal adhesion kinase		group		1.976	0.008	CDKN1C,EFNB2,IL6,LPP	99 (7)
tosedostat		chemical drug		1.067	0.008	CXCL8,DDIT4,GADD45A,SDC1	
rolipram		chemical drug		1.067	0.008	AREG,CCL2,DUSP1,IL6	189 (19)
R-WIN 55,212		chemical reagent		0.098	0.008	CASP3,CCND1,CXCL8,IL6	214 (21)
HEY2		transcription regulator		-0.204	0.008	ACTA2,IL6,NR2F2,SLN	122 (7)
RPSA		translation regulator		-0.254	0.008	CXCL3,DUSP1,IL6,STAT1	165 (19)
PTX3		other		-0.41	0.008	CCL2,CXCL2,CXCL8,IL6	140 (15)
NFAT5		transcription regulator			0.008	AREG,BCL2A1,DDIT4,SLC6A6	126 (7)
GNAI2		enzyme			0.008	CCND1,CXCL3,F2R,PRKCA	142 (18)
CLU		other			0.008	CCL2,CXCL8,IL6,SMAD2	195 (23)

IL12 (family)		group		-0.275	0.00806	CD274,DDIT4,DICER1,IL6,PIM1,PIM2,SLC2A3,STAT1	168 (16)
GATA1		transcription regulator		-0.323	0.0081	BIRC5,CCND1,CDKN2C,DICER1,DUT,ETS1,IL7R,MAP3K5,PIM1,PIM2,PLXNA1,TFRC,TOP2A	19 (2)
GC-GCR dimer		complex			0.00823	CDKN1C,DUSP1,IL1R2	
C1QBP		transcription regulator			0.00823	CCND1,CTNNB1,CXCL8	180 (21)
CDK5R1		kinase			0.00823	CXCL8,IL6,MIB1	173 (21)
mir-96		microrna			0.00823	SLC39A1,SLC39A9,TCF3	
DHX9		enzyme			0.00823	CCND1,IL6,PARP1	136 (16)
TNFRSF12A		transmembrane receptor			0.00823	CCL2,CXCL8,IL6	78 (7)
CXCL2	2.574	cytokine			0.00823	CXCL2,CXCL3,IL6	162 (18)
IRAK2		kinase			0.00823	CXCL2,CXCL8,IL6	119 (16)
AQP1		transporter			0.00823	CTNNB1,HSPA4L,TGFA	
cyclopiazonic acid		chemical - endogenous non-mammalian			0.00823	BCL2A1,CXCL2,IL6	139 (10)
helenalin		chemical - endogenous non-mammalian			0.00823	CCL20,CXCL3,IL6	97 (13)
glycyrrhetinic acid		chemical drug			0.00823	BIRC5,IL6,TRIM5	127 (11)
haloperidol		chemical drug		-0.559	0.00823	CTNNB1,FGF2,GSK3B,PRKAR2B,PRKCA,SIGMAR1,SPRY2	119 (8)
MAP3K14		kinase	Activated	2.219	0.00836	CXCL2,CXCL8,GADD45A,IL1R2,IL6,IL7R	136 (15)
R5020		chemical reagent		0.895	0.00836	AREG,CCND1,HBEGF,PIM2,SGK1,STAT1	203 (22)
JUND		transcription regulator		0.686	0.00836	CCND1,IL6,PLAU,PLAUR,SDC1,SERPINB9	194 (18)
Sos		group			0.00842	AGPS,ASAP1,B4GALT1,CADM1,CAST,FMN1,GSK3B,HIPK3,PLAU,SCD,SIRPA,SNN	55 (7)
prednisolone		chemical drug		1.941	0.00869	CASP3,CCL2,DAPK1,DUSP1,EDN1,IL6,ISG20,MAP1LC3B,PIM2,PLAT,SGK1,SOD1,STAT1	142 (18)
ITGB1		transmembrane receptor	Activated	2.166	0.00875	ACTA2,CCL2,CXCL8,FGFR3,IL6,PLAU,PLAUR	174 (19)
EIF2AK2		kinase		0.44	0.00875	CXCL8,IFITM2,IL6,ISG20,PLSCR1,SOCS3,STAT1	125 (18)
n-3 fatty acids		chemical drug		-0.449	0.00895	CCL2,IL6,MTHFR,SCD,SDC1	141 (20)
ZFP36		transcription regulator		0	0.00898	CXCL2,CXCL3,IL6,PLAU,PLAUR,TOP2A	124 (16)
Fc gamma receptor		group		0.404	0.009	CCND1,CXCL8,IL6,SOCS3	151 (21)
VTN		other		0.218	0.009	CXCL3,EFNB2,PLAU,PLAUR	135 (18)
KNG1		other			0.009	CCND1,CXCL8,FGF2,IL6	192 (21)

mir-122		microrna		1.124	0.0093	CDA,CUX1,FUT8,IL6,LMNB2,MMP7,VAV3	
miR-291a-3p (and other miRNAs w/seed AAGUGCU)		mature microrna		1.1	0.0093	ARHGEF3,CCND1,CNOT6,MARCH4,MBNL2,TMEM263,USP12	
EHF		transcription regulator		-0.522	0.0093	CASP3,CCL20,IL6,PLAT,PLAUR,SAA2,TNC	
APOE		transporter		-0.1	0.00931	ACTA2,CASP3,CCND1,CTNNB1,CXCL3,EDN1,F2R,IL6,KCTD10,PLAU,PLPP3,SOCS3,SOD1	145 (16)
glucocorticoid		chemical drug		-0.388	0.00968	CALD1,CCL2,CXCL2,CXCL8,DUSP1,EDN1,IGFBP3,IL1R2,IL6,PLAT,PTHLH,SGK1,SOCS3,TGFB2	199 (21)
RNA polymerase II		complex			0.00968	CXCL2,CXCL8,DUSP1,GADD45A,GDF15,HOXA7,HOXA9,IGFBP3,IL6,KITLG,PDZK1,RDM1,SOCS3,SORBS1	168 (12)
EZH2		transcription regulator		1.41	0.0000273	ABL2,AMACR,CCND1,CRISPLD2,CTNNB1,CXCL2,CXCL8,FGF5,GDF15,HOXA7,HOXA9,IGFBP3,IL24,IL6,MAL2,MMP7,PIM2,SAA2,SFRP4,TGFB2,TGFBR1,TRIM38	188 (24)
EPHB4		kinase		0.447	0.00975	FGFR2,KITLG,PDLIM7,TGFB2,TGFBR1	
ADM	2.114	other			0.00975	ADM,CXCL2,EDN1,FGF2,IL6	152 (14)
CHUK		kinase		0.333	0.00975	CCL2,CCND1,CXCL2,CXCL3,CXCL8,IL6,PLAU,PLSCR1,SERPINE2,SGK1,SOCS3,TGFA	161 (13)
calcipotriene		chemical drug			0.0098	CXCL8,PLAU,PRKCA	140 (9)
Angiotensin II receptor type 1		group			0.0098	CCL2,CXCL8,EDN1	160 (15)
Hmgb1		transcription regulator			0.0098	CCND1,CXCL8,IL6	205 (21)
PECAM1		other			0.0098	BIRC5,CCND1,IL6	177 (19)
PLCG2		enzyme			0.0098	BCL2A1,FGF2,IL6	200 (21)
LBP		transporter			0.0098	CXCL3,CXCL8,IL6	119 (18)
BMPER		other			0.0098	ACTA2,EFNB2,TGFBR1	
ADRB3		g-protein coupled receptor			0.0098	CCL2,IL6,UCP2	138 (19)
FABP5		transporter			0.0098	CXCL8,ISG20,SOCS3	107 (11)
DAXX		transcription regulator			0.0098	CASP3,CCND1,IL6	175 (21)
IL1RL1		transmembrane receptor			0.0098	CXCL3,CXCL8,IL6	119 (18)
pirfenidone		chemical drug			0.0098	CCL2,SMAD2,TGFB2	76 (7)
zearalenone		chemical toxicant			0.0098	CCND1,IL6,KITLG	162 (15)

BRD4		kinase		0	0.00987	CCND1,CXCL2,IL7R,MANEAL,PIM1,PIM2,POLR3G	83 (7)
N-cor		group			0.00987	ASAP1,CCND1,CXCL2,HIVEP2,IGFBP3,SCD,SGK1	236 (19)
8-hydroxyguanine		chemical - endogenous mammalian			0.00998	CCL20,CXCL2	
Cobra Venom Factor		chemical - endogenous non-mammalian			0.00998	FGF2,TGFB2	
Dgk		group			0.00998	CCL2,CXCL8	121 (13)
Stat5 dimer		complex			0.00998	CCND1,IGFBP3	
vanillyl-N-nonylamide		chemical drug			0.00998	CCND1,GADD45A	
givinostat		chemical drug			0.00998	CASP3,IL6	81 (7)
BICC1	-2.202	other			0.00998	AREG,HBEGF	
CTSC		peptidase			0.00998	CXCL3,IL6	81 (7)
TPSAB1/TPSB2		peptidase			0.00998	CXCL2,IL6	109 (10)
PLSCR1	-4.094	enzyme			0.00998	CCND1,ITPR1	
HSPB2		other			0.00998	CCL2,CXCL8	
DLX4		transcription regulator			0.00998	FGF2,TOP2A	
(-)-arctigenin		chemical reagent			0.00998	BACE1,IL6	83 (7)
DAB2		other			0.00998	CCND1,CTNNB1	178 (22)
mir-320		microrna			0.00998	BIRC5,TFRC	
PDE3A		enzyme			0.00998	CCND1,DUSP1	132 (10)
MSLN		other			0.00998	IL6,MMP7	72 (7)
FSTL1		other			0.00998	GDF15,IL6	165 (12)
CXXC5		other			0.00998	ACTA2,CTNNB1	
YWHAB		transcription regulator			0.00998	CCND1,DUSP1	
VEGFD		growth factor			0.00998	CCND1,IL6	116 (14)
CLEC4E		other			0.00998	CXCL2,CXCL3	136 (15)
SERPIND1		other			0.00998	F2R,IL6	66 (8)
CDH13		other			0.00998	CCND1,CTNNB1	157 (17)
Eda		other			0.00998	AREG,PTHLH	
EDA		cytokine			0.00998	AREG,PTHLH	
BCL2A1	3.168	other			0.00998	BCL2A1,CXCL8	136 (9)
COG112 peptide		chemical reagent			0.00998	CXCL2,CXCL3	83 (7)
CIMO		chemical reagent			0.00998	BIRC5,CCND1	72 (7)

pyridoxamine		chemical - endogenous mammalian			0.00998	CXCL8,IL6	
RWJ 67657		chemical - kinase inhibitor			0.00998	ACTA2,CXCL8	129 (7)
quinapril		chemical drug			0.00998	ADM,PTHLH	86 (7)
AGI-1067		chemical drug			0.00998	CCL2,IL6	82 (7)
scopoletin		chemical - endogenous non-mammalian			0.00998	FGF2,IL6	
CV 3988		chemical reagent			0.00998	CCL2,IL6	72 (7)
Ca2+		chemical - endogenous mammalian		0.271	0.00999	ACTA2,CCND1,CDC42,CXCL8,DUSP1,EDN1,ELF3,FGF2,FGFR2,GLS,HBEGF,IL6,ITPR1,SGK1	187 (18)
ELANE		peptidase		1.968	0.0101	CXCL2,CXCL8,IL6,MMP7	
PRKCZ		kinase		1.067	0.0101	CASP3,CCND1,CXCL8,ETS1	
GJA1	2.761	transporter		0.225	0.0101	CCL2,CCND1,FGFR3,GJA1	
TIMP1		cytokine		-1	0.0101	IGFBP3,PLAT,PLAU,PLAUR	
MMP14		peptidase		-1.131	0.0101	CTNNB1,DAPK1,IL6,SDC1	
Fgf		group			0.0101	CCND1,IL6,SPRY2,STAT1	
HSPA5		enzyme			0.0101	BIRC5,CASP3,IL6,MAP1LC3B	
ICMT		enzyme			0.0101	GJA1,HBEGF,LMNB2,REEP5	
carbon tetrachloride		chemical toxicant		-0.043	0.0101	ACTA2,AOX1,CASP3,DUSP1,GADD45A,GDF15,IL6,PRKCH,SMAD2,TGFA,TGFB2,TGFBR1	
E. coli lipopolysaccharide		chemical - endogenous non-mammalian	Activated	2.397	0.0103	CCL2,CXCL2,CXCL3,CXCL8,IL6,SOCS3	
TSC2		other		1.912	0.0105	BIRC5,CCND1,CTNNB1,IFITM3,PRKCA,SCD,STAT1,UCP2	
staurosporine		chemical - kinase inhibitor		0.078	0.0105	CASP3,CCND1,CXCL8,IL6,PIM1,PLAT,PLAU,USP12	
Pka		complex		1.51	0.0105	AREG,BIRC5,DUSP1,EDN1,GJA1,IL6,PTHLH,SGK1,TCF3	
arsenic trioxide		chemical drug		1.075	0.0105	BCL2A1,BNIP3L,CCND1,CXCL8,DHCR7,RCHY1,SCD,SHMT1,TFRC	
DETA-NONOate		chemical reagent		1.481	0.0106	CCND1,CXCL3,CXCL8,DUSP1,IL6	
PELP1		other			0.0106	CCNA1,CCND1,KAT2B,MRAS,TCF7L2	
ADCYAP1		other		-0.244	0.011	AMACR,CXCL2,CXCL3,DCDC2,FGFR2,GALNT7,IL6,PPP1R3B,SERPINE2,SOCS3,SPARC,TGFB2,UCP2	
Tlr		group	Activated	2.019	0.011	CCL2,CXCL3,CXCL8,DUSP1,HBEGF,IL6,SOCS3,STAT1	
heparin		chemical - endogenous mammalian		1.387	0.011	ACTA2,AREG,CCND1,DUSP1,IGFBP3,PLAT	

TNFSF12		cytokine		1.764	0.0111	CCL2,CCND1,CXCL2,CXCL3,CXCL8,IL1R2,IL6	
parthenolide		chemical drug		-1.972	0.0112	CCL2,CXCL2,CXCL8,IL6	
MYOD1		transcription regulator		0.353	0.0113	ACTA2,CDKN1C,CTNNB1,DUSP1,GADD45A,HIPK3,HSPA4L,LMNB2,PRKACA,PRKAR2B,TKT	
PTK2		kinase		1.407	0.0115	ACTA2,CCND1,IL6,LPP,TNC	
salicylic acid		chemical drug		-1.342	0.0115	CASP3,CXCL8,GDF15,IL6,KITLG	
KDM4C		enzyme			0.0115	FGF5,HOXA9,POLA1	
mir-183		microrna			0.0115	SLC39A1,SLC39A9,TCF3	
miR-218-5p (and other miRNAs w/seed UGUGCUU)		mature microrna			0.0115	CASP3,KCNJ16,PARP1	
USP18		peptidase			0.0115	IFITM3,IL6,SOCS3	
BIRC2		enzyme			0.0115	CCL2,CXCL8,IL6	
PAEP		other			0.0115	CD274,EDN1,HBEGF	
RPS6KA5		kinase			0.0115	CCL20,DUSP1,IL6	
BID		other			0.0115	C3AR1,CXCL8,IL6	
KLK5		peptidase			0.0115	CCL20,CXCL2,IL6	
thiazolidinedione		chemical drug			0.0115	CTNNB1,SORBS1,UCP2	
retinol		chemical drug			0.0115	CXCL8,IL6,TGFB2	
S-(2,3-bispalmitoyloxypropyl)-cysteine-GDPKHPKSF		chemical reagent			0.0115	CCL2,CXCL8,IL6	
lycopene		chemical drug			0.0115	CASP3,CCND1,MMP7	
SB-431542		chemical reagent		0.97	0.0117	CCND1,GJA1,IL1R2,PTPRK,SMAD2,TGFB2,TGFBR1	
CALCA		other		0.529	0.0117	CCL2,CTNNB1,CXCL8,EDN1,GNG12,IL6,LIMA1	
AMPK		complex		-1.143	0.0122	BIRC5,CCL2,CTNNB1,CXCL8,GJA1,IL6,STAT1,UCP2	
mir-210		microrna	Activated	2.646	0.0124	CDCA7L,FAM102A,HOXA9,LASP1,MIB1,TCF7L2,TNPO1	
platelet activating factor		chemical - endogenous mammalian		0.393	0.0124	CCL2,FGF2,IL6,PLAU,PLAUR	
green tea polyphenol		chemical drug		-0.152	0.0125	CASP3,IGFBP3,IL6,PLAU	
tempol		chemical drug		-0.927	0.0125	CXCL2,CXCL8,SGK1,UCP2	
HBEGF	2.469	growth factor	Inhibited	-2	0.0125	CCND1,FGF2,GJA1,TGFA	
norepinephrine		chemical - endogenous		0.63	0.0125	CXCL8,DUSP1,EDN1,FGF2,GDF15,GEM,IL6,SGK1,TFRC,TINAGL1	

		mammalian					
enterotoxin B		biologic drug		1.72	0.0126	BNIP3L,CCL2,CXCL2,CXCL3,IL6,SRXN1	
PRKCE		kinase		-0.059	0.0126	ACTA2,BIRC5,CCND1,CXCL8,IL6,PIM1	
ZNF217		transcription regulator		-0.816	0.0126	ADM,CCL2,CREB5,IGFBP3,PLAT,SH3RF2	
Rb		group			0.0126	BIRC5,CCL2,CCND1,FGFR2,NEO1,TOP2A	
arachidonic acid		chemical - endogenous mammalian		-0.832	0.0131	BCL2A1,EDN1,IL6,PLAU,RXRA,SCD,UCP2	
FOLR1		transporter			0.0131	ARHGDIB,ENTPD7,EPCAM,HNRNPDL,NAP1L1,SMC2,SYNCRIP	
BIRC3		enzyme			0.0134	CCL2,CXCL8,IL6	
RHOJ		enzyme			0.0134	AKAP12,PLAT,SEC62	
Lymphotoxin		complex			0.0134	CCL2,CXCL8,IL6	
MAPK8IP1		other			0.0134	CCND1,IL6,PLAU	
MTM1		phosphatase			0.0134	BNIP3L,MAP1LC3B,NEDD4L	
ATXN1	2.627	transcription regulator			0.0134	ATXN1,HMGB2,ITPR1	
PS-1145		chemical - kinase inhibitor			0.0134	CCL2,CXCL8,IL6	
chlorogenic acid		chemical drug			0.0134	CASP3,CCL2,IL6	
iron		chemical - endogenous mammalian		-1.709	0.0135	CCND1,GADD45A,IL6,IREB2,TFRC	
DICER1	2.087	enzyme		0.128	0.0136	CASP3,CCND1,CXCL8,EPCAM,KRTAP2-3/KRTAP2-4,PLAU,PRKCA,SFRP4,SOCS3,SPARC,SPRY2	
N-Cadherin		group			0.0137	CCL2,CCND1	
recombinant human endostatin		chemical drug			0.0137	CASP3,MAP1LC3B	
ANKRD42		transcription regulator			0.0137	CXCL3,IL6	
Tlr11		transmembrane receptor			0.0137	CXCL8,IL6	
SAV1		other			0.0137	BIRC5,CCND1	
ZNF652		other			0.0137	SMAD2,TGFB2	
DGAT2		enzyme			0.0137	SCD,UCP2	
KMT5B		enzyme			0.0137	DUSP1,SGK1	
nadifloxacin		chemical drug			0.0137	CXCL8,IL6	
WISP1		other			0.0137	CCND1,CTNNB1	
PRLH		cytokine			0.0137	CXCL8,IL6	

TSC22D1		transcription regulator			0.0137	CXCL8,IL6	
TPSD1		peptidase			0.0137	CXCL8,IL6	
C6		other			0.0137	CXCL2,CXCL3	
MARCO		transmembrane receptor			0.0137	CXCL3,IL6	
IGFBP4		other			0.0137	ACTA2,IGFBP3	
LPAR2		g-protein coupled receptor			0.0137	CXCL8,IL6	
CLIC4		ion channel			0.0137	CXCL2,IL6	
CHGA		other			0.0137	BIRC5,SERPINE2	
IL18RAP		transmembrane receptor			0.0137	CXCL8,IL6	
PLA2G2A		enzyme			0.0137	CXCL8,IL6	
TRPA1		transporter			0.0137	CXCL3,IL6	
SNW1		transcription regulator			0.0137	CCND1,PLAU	
PPP5C		phosphatase			0.0137	DUSP1,SGK1	
PILRA		other			0.0137	CXCL2,IL6	
TNFRSF10B		transmembrane receptor			0.0137	CXCL8,IL6	
15-E2-isoketal modified phosphatidylethanolamine		chemical reagent			0.0137	CCL2,CXCL8	
TPCA-1		chemical - kinase inhibitor			0.0137	CXCL8,IL6	
gliotoxin		chemical toxicant			0.0137	BIRC5,CCL20	
manidipine		chemical drug			0.0137	CXCL8,IL6	
eugenol		chemical - endogenous non-mammalian			0.0137	CXCL8,IL6	
cyclosporin		biologic drug			0.0137	CCND1,CXCL8	
sanguinarine		chemical - endogenous non-mammalian			0.0137	BIRC5,CCL2	
S-allyl-L-cysteine		chemical - endogenous non-mammalian			0.0137	ACTA2,CASP3	
vinpocetine		chemical drug			0.0137	CXCL3,CXCL8	

cholecalciferol		chemical - endogenous mammalian		1.054	0.0141	BIRC5,CCL2,CDA,EDN1,IGFBP3,MYO6,PTHLH,SLC2A14	
GW3965		chemical reagent		0.64	0.0143	CXCL8,GNAI1,IL6,PRKAR2B,SCD,SOCS3	
L-dopa		chemical - endogenous mammalian		0.736	0.0144	ACTA2,AIFM2,ATXN1,BICC1,CASP3,CCND1,DIXDC1,DUSP1,FAM126A,GPD2,HBEGF,LASP1,LPP,MAPKAP1,MBNL2,NEDD4L,NT5E,PDZD2,RBL2,RC3H2,REEP3,SEC14L1,SUB1,TMED10,TNFRSF19,TUSC1,UBL3,VTI1B	
sodium arsenite		chemical drug		0	0.0145	BIRC5,CCND1,CXCL8,GADD45A,SOCS3	
adenosine		chemical - endogenous mammalian			0.0145	AIFM2,CXCL8,IL6,PLAT,SOCS3	
aspirin		chemical drug		0.183	0.0146	BIRC5,CCL2,CCND1,CXCL8,GDF15,IL6,KITLG	
TCR		complex		1.16	0.0148	ADM,BCL2A1,CXCL8,ELL2,IL24,IL6,IL7R,ISG20,PIM1,SCARB2,SLC2A3,SOCS3,STAT1,SYNCRIP,TCF3	
epinephrine		chemical - endogenous mammalian		1.289	0.0152	CCND1,CXCL8,IL6,POLA1,TFRC,TGFA	
asoprisnil		chemical drug		-1	0.0152	CASP3,MAP3K5,PARP1,SGK1	
IL9		cytokine			0.0152	CCL2,CCL20,PIM1,PIM2	
ILK		kinase			0.0152	CCND1,CTNNB1,GSK3B,IL6	
POU2F1		transcription regulator			0.0154	AOX1,CCND1,CXCL8,DDIT4,GADD45A,IL6,RDM1,SOD1	
peoniflorin		chemical drug			0.0155	CASP3,DDAH1,PPIF	
DOT1L		phosphatase			0.0155	EDN1,HOXA9,RPS23	
ZMPSTE24		peptidase			0.0155	IGFBP3,SIRPA,SOCS3	
ERVW-1		other			0.0155	CNP,CXCL8,IL6	
FGFR4		kinase			0.0155	CCND1,CTNNB1,PLAU	
F10		peptidase			0.0155	CCL2,CXCL8,IL6	
AXIN1		other			0.0155	CCND1,CTNNB1,GSK3B	
plerixafor		chemical drug			0.0155	CDKN1C,IL6,KITLG	
chelerythrine		chemical drug			0.0155	CXCL3,IL6,PIM1	
YBX1		transcription regulator		-0.762	0.0156	ACTA2,CXCL2,EFEMP1,IGFBP3,SLC2A3	
alefacept		biologic drug		-0.943	0.0156	CXCL8,IL7R,SOCS3,STAT1,STAT2	
thioctic acid		chemical drug	Inhibited	-2.219	0.0156	CCL2,CXCL8,IL6,SOD1,UCP2	
IL6R		transmembrane receptor		1.946	0.0161	CCL2,CXCL2,CXCL3,CXCL8,IL6,SOCS3	
dinoprost		chemical - endogenous mammalian		-0.605	0.0161	ADM,CCND1,EDN1,FGF2,IL6,TGFA	

YAP1		transcription regulator		1.432	0.00000234	ACTA2,AREG,BIRC5,CASP3,CCND1,DICER1,EDN1,FGF1,NEGR1,POLA1,PPP1R3B,SMAD2	125 (8)
ADORA2B		g-protein coupled receptor		1.727	0.0167	CXCL2,CXCL3,CXCL8,IL6	
3M-001		chemical drug		1.067	0.0167	CCL2,CXCL8,IL6,STAT1	
PTPN6		phosphatase		1.038	0.0167	CCND1,CXCL8,ETS1,IL6	
xanthohumol		chemical - endogenous non-mammalian		1	0.0167	BIRC5,CCND1,SCD,SLN	
ibuprofen		chemical drug		0.293	0.0167	BACE1,CCND1,GDF15,IL6	
TANK		other		0.269	0.0167	CXCL2,CXCL3,CXCL8,IL6	
temozolomide		chemical drug		-0.152	0.0167	CASP3,CCL2,CXCL8,QPRT	
propofol		chemical drug		-0.192	0.0167	CASP3,CCL2,IL6,SOD1	
INSR		kinase		-0.537	0.0167	AREG,BCL2A1,BIRC5,CCL2,CCND1,CDKN2C,DHCR7,DUSP1,EDN1,GADD45A,HBEGF,IFITM2,IL6,PDHA1,PIM1,SOCS3,UCP2	
zymosan		chemical - endogenous non-mammalian	Activated	2.192	0.0168	CXCL2,CXCL3,CXCL8,IL6,SOCS3	
IL1R1		transmembrane receptor		1.199	0.0168	ACTA2,CXCL2,CXCL3,CXCL8,IL6	
gemcitabine		chemical drug		0.1	0.0168	AREG,BIRC5,CCND1,CD274,TGFA	
luteolin		chemical - endogenous non-mammalian		0.025	0.0168	BIRC5,CASP3,CCND1,IL6,NR2F2	
PRKCB		kinase		0	0.0168	ATP6V1C1,CCND1,CTNNB1,FGF2,IL6	
IL12B		cytokine		-0.577	0.0168	CXCL8,IL6,SOCS3,STAT1,STAT2	
NRG1		growth factor		-0.381	0.0168	CASP3,CCND1,CXCL8,DUSP1,EDN1,ELF3,FGF1,PLAU,PLAUR,PRKACA,SLC2A3,TGFBR1	
lovastatin		chemical drug		-0.99	0.0169	BIRC5,CCL2,CCND1,DHCR7,FAM189B,IL6,PLAT,PTHLH	
DNMT3B		enzyme		0	0.017	HOXA13,LACC1,LONRF1,SEC62,SERPINB9,SFRP4,STAT1	
EP300		transcription regulator		1.432	0.000203	AKAP12,ARHGEF3,BIRC5,CCL2,CCND1,CRISPLD2,CXCL3,CXCL8,DDX3Y,DUSP1,DUSP22,EDN1,GFRA1,GSK3B,IL6,IL7R,MMP7,PARP1,PHIP,SDC1,SOCS3,TGFB2,TGFBR1,TNC,TULP4	200 (18)
lithium		chemical drug		1.432	0.0171	CASP3,CTNNB1,CXCL8,GNAI1,IL6,TCF7L2	
RETNLB		other		0.896	0.0171	ACTA2,CASP3,CCL2,DNER,STK17B,TINAGL1	
fluoxetine		chemical drug		-0.862	0.0171	CASP3,FGF2,GNAI1,IL6,MECP2,SLC2A3	
DMRT1		transcription regulator			0.0171	CADM1,CDKN2C,DHCR7,FGFR2,IGFBP3,PDIA5	
JAK2		kinase		0.768	0.0177	CCL2,CCND1,CXCL8,FGF2,IL6,OSMR,SOCS3,STAT1	

CDX2		transcription regulator			0.0177	BIRC5,CLDN2,ETS1,FGF1,HOXA9,NR2F2,TCF7L2,USP12	
IL36B		cytokine			0.0177	CCL20,CXCL8,IL6	
DCAF1		kinase			0.0177	PPIF,SOCS3,TCF3	
SRA1		transcription regulator			0.0177	CCL20,SLC2A3,TGFB2	
EDN3		other			0.0177	CCND1,CTNNB1,FGF2	
CRYAB		other			0.0177	CASP3,CCND1,IL6	
FSHB		other			0.0177	KITLG,PLAT,SGK1	
PD 153035		chemical drug			0.0177	CCL2,CCND1,CXCL8	
alendronic acid		chemical drug			0.0177	CXCL8,FGF2,IL6	
nickel		chemical toxicant			0.0177	CXCL8,FGF2,PLAT	
triciribine		chemical drug			0.018	CXCL3,PARP1	
3,5-L-diiodothyronine		chemical - endogenous mammalian			0.018	GPD2,SCD	
fingolimod phosphate		chemical - endogenous mammalian			0.018	CCL2,IL6	
SOX17		transcription regulator			0.018	CCND1,CTNNB1	
NLRX1		other			0.018	IL6,STAT2	
TCF/LEF		group			0.018	BIRC5,CCND1	
Tlr13		other			0.018	CXCL8,IL6	
tryptase		group			0.018	F2R,PLAT	
MIA		other			0.018	PLAT,SPARC	
S100a7a		other			0.018	CCND1,CXCL8	
LIMS1		other			0.018	GJA1,TGFB2	
CXCR1		g-protein coupled receptor			0.018	CCND1,CXCL8	
ACLY		enzyme			0.018	SCD,SDC1	
TNFRSF25		transmembrane receptor			0.018	CCL2,CXCL8	
ponesimod		chemical drug			0.018	CCL2,IL6	
HAS2		enzyme			0.018	ACTA2,IL6	
MFGE8		other			0.018	CCND1,FGF2	
GFER		enzyme			0.018	DNM1L,IL6	
OGG1		enzyme			0.018	CCL20,CXCL2	
PSIP1		transcription regulator			0.018	HOXA7,HOXA9	
MMP8		peptidase			0.018	CXCL8,IL6	
IL18BP		other			0.018	CXCL8,IL6	

ACTG1		other			0.018	ACTA2,CALD1	
PBX2		other			0.018	CCL2,PLAU	
MM-401		chemical reagent			0.018	HOXA13,HOXA9	
niflumic acid		chemical drug			0.018	CXCL8,IL6	
butylhydroxybutylnitrosamine		chemical toxicant			0.018	AREG,HBEGF	
naproxen		chemical drug			0.018	BACE1,CCND1	
orlistat		chemical drug			0.018	CCL2,CXCL8	
RP 73401		chemical toxicant			0.018	CXCL2,STAT1	
magnesium sulfate		chemical drug			0.018	ADM,IL6	
levofloxacin		chemical drug			0.018	CXCL8,IL6	
tyrphostin		chemical drug			0.018	CTNNB1,CXCL2	
polaprezinc		chemical drug			0.018	CXCL8,FGF2	
polymyxin B		biologic drug			0.018	CXCL8,IL6	
palmitoyl-Cys((RS)-2,3-di(palmitoyloxy)-propyl)-Ala-Gly-OH		chemical reagent			0.018	CXCL8,IL6	
huperzine A		chemical drug			0.018	CCL2,IL6	
PDGFB		growth factor		1.697	0.018	ACTA2,CXCL8,FGF1,IL6,TNC	
CXCR4		g-protein coupled receptor		1.467	0.018	CCL2,CCND1,CXCL8,IL24,IL6	
IL32		cytokine		1.151	0.018	CCL2,CTNNB1,CXCL3,CXCL8,IL6	
nitrofen		chemical toxicant	Activated	2	0.0182	FGFR2,FGFR3,HYOU1,RTN4	
IL24	2.025	cytokine		0.313	0.0182	CASP3,CCND1,GADD45A,IL24	
TNFRSF9		transmembrane receptor		0.254	0.0182	BCL2A1,BIRC5,CXCL8,IL6	
miR-27a-3p (and other miRNAs w/seed UCACAGU)		mature microrna		-0.849	0.0182	EFNB2,RXRA,SPRY2,ZBTB10	
PP1		chemical -		-1	0.0182	CCNA1,CXCL8,GJA1,SIRPA	

		kinase inhibitor					
SUMO3		other		-1.982	0.0182	BACE1,IL6,RNASE4,TNC	
conjugated linoleic acid		chemical drug			0.0182	CXCL8,DUSP1,GDF15,SOCS3	
fenofibrate		chemical drug	Inhibited	-2.267	0.0187	CCL2,CCND1,CXCL8,EDN1,GADD45A,GAL3ST1,HOXA7,IL6, KPNA1,PANK1,PDZK1,SCD,UCP2	
GW501516		chemical drug		-1.067	0.0188	CCND1,IGFBP3,IL6,PLAT,SCD,SOD1,UCP2	
N-Ac-Leu-Leu-norleucinal		chemical - protease inhibitor		-0.997	0.0192	CASP3,CCL2,CCND1,CTNNB1,CXCL8,PRKCA	
Map3k7		kinase	Activated	2.011	0.0193	CXCL3,EDN1,HBEGF,IL6,ISG20	
SCD	-2.533	enzyme		-1.109	0.0193	CXCL3,CXCL8,GADD45A,IL6,UCP2	
INSIG1		other		-0.456	0.0197	CXCL2,CXCL3,DHCR7,IL6,RAB27A,SCD,UCP2	
Hsp27		group			0.0199	CCND1,CD274,CXCL8,IL6	
histone deacetylase		complex			0.0199	CCND1,IL24,PLAT,PLAU	
bromocriptine		chemical drug			0.0199	CASP3,CCL2,GNAI1,TGFA	
Tnf receptor		group			0.0201	CCL20,CXCL8,IL6	
NADPH oxidase		complex			0.0201	CCL2,IL6,TGFA	
RNF31		enzyme			0.0201	AREG,CCND1,PDZK1	
PRKCI		kinase			0.0201	CCND1,ELF3,IL6	
miR-103-3p (and other miRNAs w/seed GCAGCAU)		mature microrna			0.0201	BACE1,CRKL,NFIA	
PTH1R		g-protein coupled receptor			0.0201	CCND1,DUSP1,PTHLH	
SFTPD		other			0.0201	CCL2,CXCL2,CXCL3	
MED13		transcription regulator			0.0201	GPD2,PRKAR2B,TKT	
BTG2		transcription regulator			0.0201	CCND1,CXCL3,SOD1	
HEY1		transcription regulator			0.0201	ACTA2,GLS,NR2F2	
PBX3		transcription regulator			0.0201	HOXA7,HOXA9,TNPO1	
piceatannol		chemical - endogenous non-mammalia			0.0201	CCL2,CCND1,IL6	

		n					
ceruletide		biologic drug			0.0201	BIRC5,CXCL2,CXCL3	
wogonin		chemical - endogenous non-mammalian			0.0201	BIRC5,CCL2,DPYD	
selenomethylselenocysteine		chemical - endogenous mammalian			0.0201	CXCL3,PLAUR,SOD1	
CpG ODN 1826		chemical reagent			0.0206	CCL2,CD274,CXCL3,CXCL8,IL6	
RARA		ligand-dependent nuclear receptor		-1.732	0.0209	ABHD2,ATG13,BIRC5,CCNA1,CXCL8,DUSP1,ELL2,GDF15,HNRNPD,IL6,OVOS2,PRDM8,SMPD1,STAT1,UBL3	
BCR (complex)		complex		-1.165	0.021	B4GALT1,BCL2A1,CASP3,CCND1,CTNNB1,IL6,PIM1,SLAMF7	
NKX2-1		transcription regulator			0.0211	AREG,BCL2A1,CTNNB1,HMGB2,HS2ST1,KITLG,RNASE4,SCD,SERPINB9,TGFB2	
LYN		kinase		-1.245	0.0214	BCL2A1,BIRC5,ETS1,IL6,ITPR1,SOCS3	
CCR5		g-protein coupled receptor		0.553	0.0217	CASP3,CXCL2,CXCL3,IL6	
JAK3		kinase		0.48	0.0217	CD274,IL6,IL7R,SOCS3	
SPHK1		kinase		0.028	0.0217	CCND1,CXCL8,IL6,SOCS3	
NOS3		enzyme		-1.961	0.0217	ADH5,CCL2,CXCL3,IL6	
GSK3B	-2.186	kinase		0.623	0.0217	BCL2A1,BIRC5,CCL2,CCND1,CTNNB1,IL6,TCF7L2	
LHX1		transcription regulator		-0.478	0.0217	CLDN2,CYB561,FGF5,GCNT1,MSI2,PDZK1,SLC16A12	
lithium chloride		chemical drug		-1.485	0.0217	B4GALT1,CCND1,CTNNB1,GDF15,GSK3B,MTHFR,VCAN	
IL27		cytokine		-0.077	0.0219	CCL2,CCL20,CXCL8,IL6,PIM1,SOCS3,STAT1,STAT2	
IFNAR1		transmembrane receptor		-0.314	0.0219	CCL20,CXCL2,CXCL3,IL6,PLAT,SDC1,SOCS3,STAT1	
dimethyl sulfoxide		chemical drug		-0.647	0.0219	BIRC5,CTNNB1,CXCL8,FUT8,KAT2B,NR2F2,PDZD2,TFRC	
hydroxyurea		chemical drug		-0.277	0.022	CCL2,CCND1,EDN1,GADD45A,STAT1	
TBK1		kinase	Activated	2.401	0.0226	CXCL2,CXCL3,CXCL8,EDN1,IL6,ISG20	
zinc		chemical drug		1	0.0226	AKR1B10,CCND1,IL6,IREB2,SCD,TFRC	
zidovudine		chemical drug			0.0227	CCL2,CXCL8,STAT1	
pregna-4,17-diene-3,16-dione		chemical - endogenous non-mammalian			0.0227	BCL2A1,BIRC5,CCND1	
NFAT (complex)		complex			0.0227	CCL2,IL6,TMED10	
PDGF-DD		complex			0.0227	CASP3,FGF2,GSK3B	

IL17a dimer		complex			0.0227	CCL2,CCL20,IL6	
BMPR2		kinase			0.0227	CTNNB1,CXCL8,EFNB2	
NR2E1		ligand-dependent nuclear receptor			0.0227	CCND1,TGFB2,TGFBR1	
FAM3B		cytokine			0.0227	GJA1,IGFBP3,SPARC	
TNFRSF4		transmembrane receptor			0.0227	BCL2A1,CCL20,IL6	
vasoactive intestinal peptide		biologic drug			0.0227	CCL2,CXCL8,KITLG	
MST1		growth factor			0.0227	BIRC5,CCND1,IL6	
LTBP1		other			0.0227	PIM1,PIM2,SMAD2	
CRHR2		g-protein coupled receptor			0.0227	CXCL2,IL6,SLC2A3	
KN-62		chemical - kinase inhibitor			0.0227	CCND1,CXCL8,IL6	
epicatechin gallate		chemical drug			0.0227	CXCL8,GDF15,IL6	
lipoarabinomannan		chemical - endogenous non-mammalian			0.0227	CXCL2,CXCL8,STAT1	
L-cysteine		chemical - endogenous mammalian			0.0227	CXCL8,SCD	
L-lysine		chemical - endogenous mammalian			0.0227	CXCL2,IL6	
1L-6-hydroxymethyl-chiro-inositol 2-(R)-2-O-methyl-3-O-octadecylcarbonate		chemical - kinase inhibitor			0.0227	GDF15,IL6	
bazedoxifene		chemical drug			0.0227	AREG,BIRC5	
G protein alphai		group			0.0227	F2R,PTHLH	
C8		complex			0.0227	CXCL2,CXCL3	
SLC16A3		transporter			0.0227	CASP3,IL6	
UCN2		other			0.0227	CCL2,CXCL8	
FAT1		other			0.0227	IL6,PLAU	

UCHL5		peptidase			0.0227	CASP3,PARP1	
PRRX1		transcription regulator			0.0227	LPP,TNC	
IL10RB		transmembrane receptor			0.0227	CXCL8,SOCS3	
UNC5B		transmembrane receptor			0.0227	CXCL2,IL6	
THBD		transmembrane receptor			0.0227	CXCL3,IL6	
TRG		other			0.0227	AREG,NT5E	
PLA2G1B		enzyme			0.0227	CXCL8,UCP2	
ATG16L1		enzyme			0.0227	CXCL2,IL6	
salinomycin		chemical - endogenous non-mammalian			0.0227	ACTA2,CCND1	
IL4I1		enzyme			0.0227	CCL2,CXCL8	
C9		other			0.0227	CXCL2,CXCL3	
COCH		other			0.0227	CXCL2,IL6	
LAT2		other			0.0227	CXCL8,IL6	
PNPT1		enzyme			0.0227	CXCL8,IL6	
TAF6		transcription regulator			0.0227	GADD45A,HOXA9	
IQGAP1		other			0.0227	CCND1,CDC42	
C7		other			0.0227	CXCL2,CXCL3	
RECK		other			0.0227	CCND1,SPRY2	
cyclic guanosine monophosphate-adenosine monophosphate		chemical - endogenous non-mammalian			0.0227	CXCL8,IL6	
asbestos		chemical toxicant			0.0227	CXCL8,TGFA	
benazepril		chemical drug			0.0227	ACTA2,EDN1	
pimozide		chemical drug			0.0227	CCND1,PIM1	
PD 168393		chemical - kinase inhibitor			0.0227	CCL2,CXCL8	
ketorolac		chemical drug			0.0227	CXCL8,IL6	
rhodiolosid e		chemical - endogenous non-mammalian			0.0227	CASP3,IL6	
nickel chloride		chemical toxicant			0.0227	CCL2,IL6	

hexamethoxyflavone		chemical toxicant			0.0227	CXCL8,IL6	
saturated fatty acid		chemical - other			0.0227	CCL2,IL6	
betaine		chemical - endogenous mammalian			0.0227	CCL2,FGF2	
VIP		other		-1.156	0.0227	CCL2,CCND1,CD274,CXCL2,CXCL3,CXCL8,IL6	
pyrrolidine dithiocarbamate		chemical reagent		-1.898	0.0227	BCL2A1,CCL2,CXCL2,CXCL3,CXCL8,IL6,MMP7	
alitretinoin		chemical drug		-1.085	0.023	BCL2A1,CCL20,CCND1,CTNNB1,DUSP1,IL6,PLAU,RXRA,SCD	
LCN2		transporter	Activated	2.2	0.0235	CCL20,CXCL2,CXCL3,IL6,TINAGL1	
IRF6		transcription regulator		1.526	0.00456	CCL2,CXCL8,IL6,NLRP3,PLAU	124 (17)
RHO		g-protein coupled receptor		0	0.0235	CASP3,HMGB2,IMPDH1,NT5E,SGK1	
HTT		transcription regulator			0.0235	ACTA2,AKAP12,AMACR,ATP8A1,CASP3,CAST,CCND1,CTNNB1,DHCR7,FGF1,HBEGF,HIVEP2,HMGB2,ITPR1,MANEAL,MPRIP,NAA15,PLAUR,RGS4,RIPK2,SGK1,SIRPA,SMC2,SNN,SOD1,TCF3,TFRC,VTI1B	
ICAM1		transmembrane receptor		1.969	0.0235	ACTA2,CXCL2,CXCL3,IL6	
MYBL2		transcription regulator		-0.577	0.0235	BIRC5,CCNA1,CCND1,TOP2A	
HDAC6		transcription regulator			0.0235	BIRC5,IL6,PLAU,TGFBR1	
emodin		chemical drug			0.0235	BIRC5,CXCL8,MAP3K5,SOD1	
ADORA2A		g-protein coupled receptor		0.378	0.0237	ATP8A1,CXCL2,DAPK3,DUSP1,IFITM3,IL6,SPARC,SSRP1	
phenethyl isothiocyanate		chemical drug			0.0238	BIRC5,CCND1,KAT2B,KIAA0101,PTPRE,TGFA,USP14	
phenylephrine		chemical drug		1.452	0.025	BNIP3L,DUSP1,EDN1,GJA1,RGS4	
CRH		cytokine		0.946	0.025	EDN1,IL6,SGK1,SLC2A3,SOCS3	
sodium chloride		chemical - endogenous mammalian		0.096	0.025	CASP3,CXCL8,DDIT4,EDN1,SOD1	
Igm		complex			0.025	BCL2A1,BIRC5,CXCL8,PIM1,RBL2	
RHOA		enzyme		-0.168	0.0251	ACTA2,CCND1,CXCL8,GDF15,IL6,PLAU	
Ciap		group			0.0254	CCND1,CXCL2,IL6	
CLEC7A		transmembrane receptor			0.0254	CCL2,CXCL2,IL6	
IHH		enzyme			0.0254	CCND1,CTNNB1,PTHLH	

EZR		other			0.0254	BIRC5,CTNNB1,IL6	
COMMD1		transporter			0.0254	DDIT4,STAT1,TFRC	
PRMT1		enzyme			0.0254	CTNNB1,CXCL3,HOXA9	
TRPV4		ion channel			0.0254	CXCL2,IL6,SOCS3	
methyl-beta-cyclodextrin		chemical drug			0.0254	CCND1,CXCL8,IL6	
DMP1		other		0.849	0.0255	CXCL8,EPCAM,FGF1,IL6	
TXNIP		other		0.689	0.0255	CCND1,DDIT4,DHCR7,IL6	
HR		transcription regulator		0	0.0255	CSNK2A2,GJA1,HNRNPC,IL1R2	
EFNA4		kinase		0	0.0255	ITGB6,NT5E,PLAT,PTHLH	
BAPTA-AM		chemical reagent		-1.181	0.0255	CCL2,CXCL8,IL6,SOCS3	
CEBPD		transcription regulator		1.599	0.0045	BCL2A1,BIRC5,CCL20,CCND1,CDKN1C,CXCL3,CXCL8,IL6	177 (19)
TWIST1		transcription regulator		1.633	0.00019	ACTA2,CASP3,CCL2,CXCL8,EFNB2,ETS1,FGFR2,FGFR3,IL6,NT5E,PDZD2,TCF3,VCAN	180 (17)
thyroid hormone		chemical - endogenous mammalian		-0.692	0.0258	CCNA1,CCND1,CSNK2A1,DDAH1,GPD2,IGFBP3,SERPINE2,SSRP1,STAT1,UCP2	
CD40		transmembrane receptor		0.225	0.0263	BCL2A1,BIRC5,CCL2,CCND1,CXCL8,DUSP1,IL24,IL6,PIM1,SLAMF7,TCF3	
triamcinolone acetonide		chemical drug		-0.501	0.0263	BCL2A1,DUSP1,EFNB2,FGFR2,IGFBP3,PDIA5,PLAU,PSPH,SCD,TCF7L2,TGFB2	
SMAD4		transcription regulator		1.911	0.0000678	AREG,CCL2,CCL20,CCND1,CTNNB1,CYB561,DAPK1,EDN1,GADD45A,GJA1,PLAU,PTHLH,SCD,SGK1,SMAD2,TGFB2,TNC	208 (20)
quercetin		chemical drug	Inhibited	-2.414	0.0268	BIRC5,CCL2,CXCL8,EDN1,IL6,PLAU,PLAUR,SOD1	
6-thioguanylic acid		chemical reagent			0.0268	PTHLH	
N(6)-methyl-2'-deoxyadenosine		chemical reagent			0.0268	SOCS3	
ERMN		other			0.0268	CNP	
colfosceril palmitate		chemical - endogenous mammalian			0.0268	CXCL8	
cyanuric acid		chemical reagent			0.0268	CXCL8	
TRIM72		enzyme			0.0268	ACTA2	
LTB4R/LTB4R2		group			0.0268	CXCL8	
NDPK		group			0.0268	CXCL8	
PI3K p85		group			0.0268	IL6	
adenosine deaminase		group			0.0268	CXCL3	

PDGF-CC		complex			0.0268	GSK3B	
budesonide /formoterol		chemical drug			0.0268	CD274	
N-formyl-Nle-Leu-Phe		chemical reagent			0.0268	FPR1	
NF279		chemical reagent			0.0268	CXCL8	
NCK		group			0.0268	CCND1	
Daf		group			0.0268	IL6	
NUDT6		growth factor			0.0268	FGF2	
FBXL7		enzyme			0.0268	BIRC5	
AI842136		other			0.0268	BACE1	
FBXO31		enzyme			0.0268	CCND1	
CFAP45		other			0.0268	CCNA1	
WTIP		transcription regulator			0.0268	AREG	
LPIN2		phosphatase			0.0268	IL6	
KCNJ12		ion channel			0.0268	CCND1	
SNRPN		other			0.0268	SNRPB	
CALCOCO1		transcription regulator			0.0268	CCND1	
URGCP		other			0.0268	CCND1	
PRG3		other			0.0268	CXCL8	
FCN1		peptidase			0.0268	CXCL8	
TMEM184A		other			0.0268	DUSP1	
Ctf2		cytokine			0.0268	SOCS3	
SUMO		group			0.0268	BACE1	
ZNF580		other			0.0268	CXCL8	
RPS6KA		group			0.0268	CXCL8	
FAF2		other			0.0268	NF1	
PHF10	2.37	other			0.0268	CASP3	
LRRC4C		other			0.0268	IL6	
PLAC1		other			0.0268	CCND1	
ZCCHC11		enzyme			0.0268	IL6	
TXNDC2		enzyme			0.0268	IL6	
gataparsen		biologic drug			0.0268	CASP3	
rimantadine		chemical drug			0.0268	CXCL8	
Cadherin		group			0.0268	CDC42	
veliparib		chemical drug			0.0268	PARP1	
Serine Protease		group			0.0268	IL6	

cabozantinib		chemical drug			0.0268	CD274	
HCV 796		chemical drug			0.0268	MAP1LC3B	
Integrin alpha 5 beta 1		complex			0.0268	CCND1	
Cathepsin		group			0.0268	ACTA2	
PARD3		other			0.0268	IL6	
PF-4523655		biologic drug			0.0268	DDIT4	
Tenascin		group			0.0268	CCND1	
trametinib		chemical drug			0.0268	CD274	
PSMD9		transcription regulator			0.0268	SMAD2	
MYLPF		other			0.0268	ACTA2	
flunixin meglumine		chemical drug			0.0268	IL6	
PLOD1		enzyme			0.0268	GJA1	
LRRFIP2		other			0.0268	CTNNB1	
KSR2		kinase			0.0268	CXCL8	
ADCY2		enzyme			0.0268	CCND1	
SOCS5		cytokine			0.0268	IL6	
TSTA3		enzyme			0.0268	ACTA2	
miR-302b-5p (and other miRNAs w/seed CUUUAAC)		mature microrna			0.0268	BIRC5	
miR-381-3p (and other miRNAs w/seed AUACAAG)		mature microrna			0.0268	BIRC5	
miR-513a-5p (miRNAs w/seed UCACAGG)		mature microrna			0.0268	CD274	
mir-506		microrna			0.0268	GFRA1	
miR-181a-1-3p (and		mature microrna			0.0268	BIRC5	

other miRNAs w/seed CCAUCGA)							
mir-463		microrna			0.0268	BIRC5	
mir-188		microrna			0.0268	BACE1	
miR-342-5p (and other miRNAs w/seed GGGGUGC)		mature microrna			0.0268	KCNJ16	
miR-298-5p (and other miRNAs w/seed GCAGAGG)		mature microrna			0.0268	BACE1	
mir-471		microrna			0.0268	BIRC5	
MED15		transcription regulator			0.0268	CCND1	
FRAT2		other			0.0268	CTNNB1	
NEB		other			0.0268	SLN	
Muc16		other			0.0268	IL6	
TOB2		other			0.0268	CCND1	
CUBN		transmembrane receptor			0.0268	NLRP3	
WDR61		other			0.0268	HOXA9	
TNPO2		transporter			0.0268	CXCL8	
TYMP		growth factor			0.0268	CXCL8	
GTPBP4		enzyme			0.0268	CCND1	
TLL1		peptidase			0.0268	IGFBP3	
LGALS4		other			0.0268	IL6	
CAY10593		chemical reagent			0.0268	CTNNB1	
ORC4		other			0.0268	LMNB2	
FARP2		other			0.0268	CDC42	
XPO5		transporter			0.0268	DICER1	
POLA2		enzyme			0.0268	POLA1	
PTPRU		phosphatase			0.0268	CCND1	
KRT15		other			0.0268	TCF3	
GRAMD4		other			0.0268	IL6	

GJB2		transporter			0.0268	FGFR3	
C8orf44-SGK3/SGK3		kinase			0.0268	CTNNB1	
Ikzf1		transcription regulator			0.0268	FGFR3	
PMS2		enzyme			0.0268	CCND1	
RSL1D1		other			0.0268	PLAU	
TBC1D23		other			0.0268	IL6	
PHF5A		transcription regulator			0.0268	GJA1	
LIN7C		other			0.0268	CTNNB1	
ORC3		other			0.0268	LMNB2	
TPST1		enzyme			0.0268	IL6	
VPS4B		transporter			0.0268	CASP3	
alectinib		chemical drug			0.0268	CD274	
RXFP1		g-protein coupled receptor			0.0268	ACTA2	
CDK20		kinase			0.0268	CCND1	
PTOV1		other			0.0268	CCND1	
DDT		enzyme			0.0268	IL6	
PRDX6		enzyme			0.0268	PLAU	
Prg4		other			0.0268	IL6	
Marcks		other			0.0268	IL6	
GBA		enzyme			0.0268	IL6	
SR11256		chemical reagent			0.0268	EDN1	
diacetylbis(4-methylthiosemicarbazonato)copper(II)		chemical reagent			0.0268	SOD1	
tat-psi-delta-RACK		chemical reagent			0.0268	CCL2	
deltaV1-1		chemical reagent			0.0268	CCL2	
casein kinase II inhibitor IV		chemical reagent			0.0268	IL6	
RPLP0		other			0.0268	CCND1	
Immunoglobulin Lambda Light		group			0.0268	CCL2	

Chain							
arsenic trichloride		chemical reagent			0.0268	GADD45A	
mir-328		microrna			0.0268	BACE1	
beractant		chemical drug			0.0268	CXCL8	
fluticasone/ salmeterol		chemical drug			0.0268	CD274	
SKF-83959		chemical reagent			0.0268	FGF2	
proadifen		chemical reagent			0.0268	PLAT	
amlexanox		chemical drug			0.0268	CCND1	
salinazid		chemical reagent			0.0268	IREB2	
hexamethonium		chemical drug			0.0268	IL6	
2,5-dihydroxymethyl cinnamate		chemical - kinase inhibitor			0.0268	EDN1	
sulfaphenazole		chemical drug			0.0268	CCND1	
L-threo-safingol		chemical drug			0.0268	CXCL8	
Ro 20-1724		chemical reagent			0.0268	CCND1	
PD173955		chemical - kinase inhibitor			0.0268	PLAUR	
prednisolone acetate		chemical drug			0.0268	IL6	
nitazoxanide		chemical drug			0.0268	IL6	
flunitrazepam		chemical drug			0.0268	CXCL8	
synthetic peptide		chemical reagent			0.0268	SPARC	
tolrestat		chemical drug			0.0268	CXCL8	
hedamycin		chemical reagent			0.0268	BIRC5	
fluorescein		chemical drug			0.0268	CASP3	
ramiprilat		chemical - endogenous mammalian			0.0268	IL6	
tropisetron		chemical drug			0.0268	IL6	
3,4-dihydro-5[4-(1-piperindinyl) butoxy]-1(2H)-isoqui		chemical reagent			0.0268	PARP1	

noline							
repaglinide		chemical drug			0.0268	CCL2	
beta-penta-O-galloyl-glucose		chemical - endogenous non-mammalian			0.0268	CCND1	
potassium iodide		chemical drug			0.0268	CXCL8	
myrcene		chemical - endogenous non-mammalian			0.0268	SOD1	
cineole		chemical drug			0.0268	SOD1	
cardiolipin		chemical - endogenous mammalian			0.0268	CCL2	
6-thioguanosine		chemical reagent			0.0268	PTHLH	
poractant alfa		chemical drug			0.0268	CXCL8	
becaplermin		biologic drug			0.0268	BIRC5	
amastatin		chemical - protease inhibitor			0.0268	IL6	
OSU8-1		chemical - protease inhibitor			0.0268	HBEGF	
P2y Receptor		group			0.0268	SLC2A3	
fucose		chemical - endogenous mammalian			0.0268	ACTA2	
3-deoxyglucosone		chemical - endogenous mammalian			0.0268	HBEGF	
lactulose		chemical - endogenous mammalian			0.0268	CXCL8	
V2+		chemical toxicant			0.0268	CXCL8	
mir-1		microrna		-1.709	0.0272	CASP3,CCL2,CXCL8,EDN1,GJA1,LASP1,UST	
EFNA3		kinase		0	0.0275	ITGB6,NT5E,PLAT,PTHLH	
2-methoxyestradiol		chemical - endogenous mammalian		-1.153	0.0275	AREG,IL6,SERPINE2,SOD1	
Ro31-8220		chemical - kinase inhibitor		-1.98	0.0275	CCL2,CXCL8,DUSP1,IL6	

MTA1		transcription regulator			0.0275	CCND1,CDKN1C,CTNNB1,GSK3B	
CRP		other			0.0275	CCL2,CXCL8,IL6,PRKCA	
GDF2		growth factor		0.364	0.0278	CXCL8,EDN1,EFNB2,FGFR3,SERPINE2,SLC6A6	
hydrocortisone		chemical - endogenous mammalian		-1.247	0.0278	ADM,CCL2,CCND1,CXCL8,FGF2,GBP1,IGFBP3,IL6	
6-mercaptopurine		chemical drug			0.0279	CXCL8,IL6	
ANKRD17		other			0.0279	HBEGF,SOCS3	
EIF4G2		translation regulator			0.0279	PLAT,SERPINE2	
JMJD6		transmembrane receptor			0.0279	CCND1,PIM2	
PELI1		enzyme			0.0279	CXCL8,IL6	
MXD1		transcription regulator			0.0279	EDN1,RBL2	
CTNND1		other			0.0279	CTNNB1,CXCL8	
MIR320		group			0.0279	EDN1,TFRC	
FRMD6		other			0.0279	FGF1,IGFBP3	
LUM		other			0.0279	CXCL2,IL6	
RPS6KA4		kinase			0.0279	DUSP1,IL6	
HOXB5		transcription regulator			0.0279	PLAU,PLAUR	
HOXB7		transcription regulator			0.0279	CXCL8,FGF2	
FTH1		enzyme			0.0279	SHMT1,TFRC	
MAP3K11		kinase			0.0279	BIRC5,CXCL8	
HPSE		enzyme			0.0279	CCL2,SDC1	
premarin		chemical drug			0.0279	AREG,BIRC5	
farglitazar		chemical drug			0.0279	EDN1,SGK1	
Trolox C		chemical drug			0.0279	CXCL8,UCP2	
2-hydroxy-1-naphthyl aldehyde isonicotinoyl hydrazone		chemical reagent			0.0279	CCND1,GADD45A	
lidocaine		chemical drug			0.0279	IL6,PARP1	
astressin 2B		biologic drug			0.0279	CXCL2,SLC2A3	
Z-DEVD-FMK		chemical - protease inhibitor			0.0279	CXCL2,CXCL3	
tridecanoic acid		chemical - endogenous			0.0279	CDKN1C,TNC	

		mammalian					
8-oxo-7-hydrodeoxyguanosine		chemical - endogenous mammalian			0.0279	CXCL8,IL6	
S-equol		chemical drug			0.0279	IL6,PLAT	
entinostat		chemical drug		0.391	0.0282	BIRC5,CCND1,DUSP1,IGFBP3,TNFRSF19	
sulindac		chemical drug			0.0282	BIRC5,CCND1,CDC42,CTNNB1,NAP1L1	
GRP		growth factor			0.0283	CCND1,CXCL8,PRKCA	
HAND1		transcription regulator			0.0283	ADSSL1,EDN1,EFNB2	
HEXIM1		transcription regulator			0.0283	CCND1,FGF2,TGFB2	
PCYT1A		enzyme			0.0283	CXCL2,GFRA1,SCD	
PLK4		kinase			0.0283	EDN1,PLAT,USP12	
rimonabant		chemical drug			0.0283	CXCL8,FGF2,IL6	
JAK inhibitor I		chemical - kinase inhibitor			0.0283	CXCL2,CXCL3,SGK1	
arotinoid acid		chemical toxicant			0.0283	DUSP1,PTHLH,SCD	
CAMP		other	Activated	2.238	0.0292	CCL2,CCL20,CXCL3,CXCL8,IL1R2,IL6	
GPX1		enzyme		-0.849	0.0296	ACTA2,CXCL3,IL6,SOD1	
cytochalasin D		chemical toxicant		-1.109	0.0296	ACTA2,CCL2,CNP,CXCL8	
lipid A		chemical toxicant			0.0296	CCL2,CXCL3,CXCL8,IL6	
ITGA5		transmembrane receptor			0.0296	CCND1,GJA1,PLAU,PLAUR	
IFNLR1		transmembrane receptor			0.0296	CCL20,CXCL2,CXCL3,IL6	
CDKN2A		transcription regulator		1.917	0.00417	BIRC5,CASP3,CCL2,CCNA1,CCND1,CDCA5,CDCA7L,CDKN2C,CNOT6L,DUSP1,HMGB2,IL1R2,IL6,RAB27A,SNTB2,TCF19	189 (20)
SOX6		transcription regulator		1.96	0.000914	CCND1,CTNNB1,FGFR3,SOCS3	79 (10)
IL18		cytokine	Activated	2.256	0.0305	CCL2,CCL20,CXCL3,CXCL8,DDIT4,GJA1,IL6,SLC2A3,SMAD2	
MYOC		other			0.0307	CNP,DDIT4,HOXA7,JDP2,PTGER4,SLC2A3	
UCP1		transporter		-0.579	0.0312	GADD45A,GDF15,ITPR1,PSPH,SHMT1,SLN,STBD1,UCP2	
n-nitrosomethylbenzylamine		chemical toxicant			0.0312	AKR1B10,AOX1,CCND1,GNG12,KIAA0101,SDC1,TGFA,USP14	
DLL4		other			0.0314	ACTA2,EFNB2,NR2F2	
mir-126		microrna			0.0314	CRKL,HOXA9,MMP7	
TRIB3		kinase			0.0314	DDIT4,GDF15,PSPH	
SP4		transcription regulator			0.0314	ADH5,BIRC5,CCND1	
PLK2		kinase			0.0314	EDN1,PLAT,USP12	

PROX1		transcription regulator			0.0314	CDKN1C,FGFR3,RGS4	
diazoxide		chemical drug			0.0314	ABCC9,HYOU1,UCP2	
isoflurane		chemical drug			0.0314	BACE1,CASP3,IL6	
sorafenib		chemical drug			0.0314	ACTA2,CCND1,CXCL8	
TBX5		transcription regulator		1.964	0.0317	BIRC5,CCL20,CXCL2,CXCL8,GJA1	
lipoteichoic acid		chemical - endogenous non-mammalian		1.924	0.0317	CAST,CCL2,CXCL8,IL6,NLRP3	
cytarabine		chemical drug		0.97	0.0317	CD274,GADD45A,IL6,TGFB2,TOP2A	
MAP3K7		kinase		0.563	0.0317	CCL20,CXCL2,CXCL8,GBP1,IL6	
miR-122-5p (miRNAs w/seed GGAGUGU)		mature microrna		0.419	0.0317	BCKDK,FAM117B,MECP2,OSMR,RAB6B	
GDNF		growth factor		0.108	0.0317	CASP3,CCND1,GFRA1,LMNB2,PRKACA	
Collagen type I		complex			0.0317	ACTA2,CCND1,CTNNB1,PLAU,TNC	
C5AR1		g-protein coupled receptor		1.98	0.0318	CXCL2,CXCL3,CXCL8,IL6	
PPRC1		transcription regulator		0.392	0.0318	CCL20,CXCL8,DDIT4,GDF15	
EFNA5		kinase		0	0.0318	ITGB6,NT5E,PLAT,PTHLH	
PRKACA	-2.324	kinase		-0.762	0.0318	CCND1,SDC1,SFRP4,SOCS3	
SRC (family)		group			0.0318	CCL2,CDKN1C,IL6,STAT1	
niacinamide		chemical - endogenous mammalian			0.0318	ACTA2,CCL2,IL6,PARP1	
tanespimycin		chemical drug		1.331	0.0322	BCL2A1,BIRC5,CCND1,CXCL8,HNRNPC,PLAU,SNRPB	
black raspberry extract		chemical drug			0.0322	AKR1B10,AOX1,GNG12,KIAA0101,SDC1,TGFA,USP14	
gentamicin		chemical drug		1.212	0.0328	CCL2,CPEB1,GADD45A,GDF15,HIVEP2,HYOU1,IGFBP3,KYNU,L3HYPDH,NAA15,PLLP,TFRC	
U46619		chemical reagent			0.0335	CCL2,CXCL8	
L-serine		chemical - endogenous mammalian			0.0335	CCND1,PSPH	
sorbitol		chemical - endogenous			0.0335	GJA1,SGK1	

		mammalian					
Rp-8-Br-cAMPS		chemical - kinase inhibitor			0.0335	AREG,PRKACA	
CARD9		other			0.0335	CXCL2,IL6	
naringin		chemical - endogenous non-mammalian			0.0335	CCL2,CXCL8	
TRIM38	-2.118	other			0.0335	CXCL8,IL6	
S100A12		other			0.0335	CCND1,IL6	
Atrial Natriuretic Peptide		group			0.0335	EDN1,TNC	
Fcor		enzyme			0.0335	GADD45A,RBL2	
LECT2		other			0.0335	CXCL3,IL6	
Collagen Alpha1		group			0.0335	PLAU,PLAUR	
CCR9		g-protein coupled receptor			0.0335	GLS,GSK3B	
Cebp		complex			0.0335	CXCL8,IL6	
TOP1		enzyme			0.0335	MECP2,MYO6	
HSP90AA1		enzyme			0.0335	BIRC5,GJA1	
PPP3CB		phosphatase			0.0335	GADD45A,RBL2	
RUVBL2		transcription regulator			0.0335	CCND1,CDKN2C	
LIMA1	2.157	other			0.0335	MMP7,VCAN	
ST3-Hel2A-2		chemical reagent			0.0335	CDKN1C,GADD45A	
CEBPG		transcription regulator			0.0335	CXCL8,IL6	
NUMBL		other			0.0335	CASP3,SPARC	
CCNT1		transcription regulator			0.0335	CCND1,CXCL8	
LY6E		other			0.0335	CXCL8,IL6	
C5AR2		g-protein coupled receptor			0.0335	CXCL2,CXCL3	
FZR1		kinase			0.0335	CCND1,MAP3K2	
MZF1		transcription regulator			0.0335	FGF2,PRKCA	
CHRNA3		transmembrane receptor			0.0335	CASP3,STAT1	
TEAD2		transcription regulator			0.0335	CCND1,POLA1	

HSPA1A/ HSPA1B		enzyme			0.0335	CXCL2,CXCL8	
ACO1		enzyme			0.0335	IGFBP3,TFRC	
sevoflurane		chemical drug			0.0335	CASP3,IL6	
ferric ammonium citrate		chemical drug			0.0335	GADD45A,IREB2	
enterolactone		chemical - endogenous non-mammalian			0.0335	CCND1,SPARC	
theophylline		chemical drug			0.0335	CXCL8,IL6	
mimosine		chemical drug			0.0335	RXRA,SHMT1	
TGIF1		transcription regulator		1.965	0.000714	CXCL2,CXCL3,CXCL8,IL6	161 (18)
methapyrilene		chemical drug		1.342	0.0336	AMACR,CCND1,CXCL3,GADD45A,GFRA1,GSK3B,KYNU,SCD	
HIC1		transcription regulator	Activated	2	0.0235	ACTA2,CCND1,CDKN1C,GRSF1,ITPR1	
N-acetylsphingosine		chemical reagent		-0.152	0.0342	CXCL2,CXCL8,MAP3K5,RXRA	
A2M		transporter	Inhibited	-2	0.0342	CCND1,GSK3B,IL6,MAP3K5	
BMI1		transcription regulator			0.0342	CADM1,GLIPR1,HOXA9,VEZT	
FHL2		transcription regulator			0.0346	ACTA2,CCND1,CXCL8	
PDPK1		kinase			0.0346	CCND1,CXCL8,IL6	
NOX4		enzyme			0.0346	CCL2,CXCL8,TGFA	
ESRRB		ligand-dependent nuclear receptor			0.0346	PDIA5,PFKFB2,SLC6A6	
hemozoin		chemical - endogenous non-mammalian			0.0346	CCL2,CXCL3,IL6	
nitrofurantoin		chemical drug		1	0.0349	AMACR,CASP3,CCND1,CXCL3,GADD45A,IGFBP3,IL6,PLAT,SDC1	
PRKAG3		other			0.0349	BACE1,ELL2,GJA1,HIVEP2,HN1,NAP1L1,NEO1,SLC2A3,TFRC	
trinitrobenzenesulfonic acid		chemical reagent		1.763	0.0353	CTNNB1,CXCL2,CXCL3,IL1R2,IL6,SOCS3	
isoproterenol		chemical drug		-0.976	0.0361	ACTA2,EDN1,FGF2,IL6,PLAT,RAB27A,SCD,UCP2	
FGF1	2.638	growth factor		-1.054	0.0364	AKR1B10,CCND1,CTNNB1,EDN1,IL6,TCF3,TGFB2	
PML		transcription regulator	Activated	2.051	0.00197	BIRC5,CCNA1,CCND1,DNAJB6,GADD45A,PRKCA,PRKCH,RXRA,SCD,UCP2	204 (17)

FOXL2		transcription regulator	Activated	2.216	0.0299	BCL2A1,CCL20,CXCL2,CXCL3,PTHLH	
mir-182		microrna		0.277	0.0366	FNDC3A,SLC39A1,SLC39A9,TCF3	
IL25		cytokine		-0.028	0.0366	CCL2,CXCL8,FGF2,IL6	
sunitinib		chemical drug		-0.528	0.0366	BIRC5,CTNNB1,CXCL3,TNC	
ADRA1B		g-protein coupled receptor			0.0366	CCND1,DDAH1,DUSP1,IL6	
ADRA1D		g-protein coupled receptor			0.0366	DDAH1,DUSP1,IL6,POLA1	
uric acid		chemical - endogenous mammalian	Activated	2.41	0.037	CCL2,CXCL2,CXCL3,CXCL8,IL6,PARP1	
MAP2K3		kinase		0.751	0.0374	CXCL8,IL6,PLAU,SGK1,STAT1	
metformin		chemical drug		-0.719	0.0374	ACTA2,CASP3,CCL2,CXCL8,DDIT4,DICER1,IL6,UCP2	
2-amino-5-phosphonovaleric acid		chemical - other		-1.134	0.0374	C5orf51,DUSP1,GADD45A,GFRA1,LBH,MED20,PRKAB2,RASGEF1B	
miR-221-3p (and other miRNAs w/seed GCUACAU)		mature microrna			0.038	BNIP3L,CDKN1C,DDIT4	
ASXL2		other			0.038	FAM162A,GPD2,SCD	
THBS1		other			0.038	IL6,PLAU,TGFB2	
NF1	2.029	other			0.038	CCND1,CTNNB1,FGF2	
phorbol 12,13-didecanoate		chemical toxicant			0.038	DUSP1,PARP1,SGK1	
8-chlorophenylthio-adenosine 3',5'-cyclic monophosphate		chemical - kinase inhibitor		1.225	0.0391	AREG,BIRC5,CASP3,DUSP1	
IKBKE		kinase		0.469	0.0391	CCND1,CXCL8,IL6,STAT1	
IFN type 1		group		-0.849	0.0391	CXCL8,IL6,STAT1,STAT2	
PIK3CA		kinase			0.0391	BIRC5,CALD1,CCND1,SPARC	
miR-199a-5p (and other miRNAs w/seed CCAGUG		mature microrna		-1.412	0.0394	BIRC5,CALD1,ETS1,MMP7,TGFBR1	

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5'-methylthioadenosine		chemical - endogenous mammalian			0.0395	CCND1,FGF2	
L-histidine		chemical - endogenous mammalian			0.0395	DDIT4,HNRNPD	
azithromycin		chemical drug			0.0395	CXCL3,IL6	
embelin		chemical - endogenous non-mammalian			0.0395	BIRC5,CCND1	
Integrin		complex			0.0395	CCND1,SOCS3	
highly active antiretroviral therapy		chemical drug			0.0395	IL6,IL7R	
STAT1/3/5 dimer		complex			0.0395	PLAU,SOCS3	
RGS2		other			0.0395	HBEGF,PLAT	
YWHAQ		other			0.0395	CASP3,MMP7	
PDE3B		enzyme			0.0395	IL6,SOCS3	
MAPK10		kinase			0.0395	CXCL8,IL6	
NLRC4		other			0.0395	CXCL2,CXCL3	
RGCC		other			0.0395	ACTA2,SCD	
CDH5		other			0.0395	BIRC5,CTNNB1	
VCP		enzyme			0.0395	CCL2,CXCL8	
MAML1		transcription regulator			0.0395	CCND1,IL7R	
GRN		growth factor			0.0395	CCND1,IL6	
SPINT2		other			0.0395	DYRK2,PLAU	
FOXF2		transcription regulator			0.0395	ACTA2,CTNNB1	
ACE2		peptidase			0.0395	ACTA2,IL6	
SIRPA	-2.782	phosphatase			0.0395	CXCL8,IL6	
ACTN4		transcription regulator			0.0395	CCL2,CXCL8	
cantharidin		chemical drug			0.0395	IL6,RXRA	
SR 144528		chemical reagent			0.0395	CCL2,CXCL8	
D-sphingosine		chemical - endogenous mammalian			0.0395	CXCL2,IL6	
rhein		chemical - endogenous			0.0395	CASP3,CXCL8	

		non-mammalian					
cucurbitacin B		chemical - endogenous non-mammalian			0.0395	BIRC5,CASP3	
tetrathiomolybdate		chemical drug			0.0395	ACTA2,SOD1	
PAX3		transcription regulator			0.0398	ARHGDIB,IFITM2,IL6,IL7R,PTHLH,SHMT1,TCF3,TGFB2,TNC,VCAN	
Nr1h		group	Inhibited	-2.155	0.0401	CXCL8,EDN1,F2R,FGF1,IL6,ITPR1,NLRP3,SCD	
LMNA		other			0.0404	ACTA2,AIFM2,CTDSPL,EDN1,GJA1,ISG20,MAPKAP1,MIB1,SLN,STAT1,TMEM64	
tetrachlorodibenzodioxin		chemical toxicant		0.37	0.0408	ADM,CCND1,CXCL8,EDN1,IL6,KPNA6,MKLN1,PRKAR2B,SDC1,SLC2A3,SOD1,TGFA,TGFB2,TNC,TNFRSF19,VEZF1	
celecoxib		chemical drug		0.352	0.0409	BCL2A1,BIRC5,CASP3,CCND1,GADD45A,GDF15,RIPK2	
Alpha catenin		group		-1.969	0.0409	AREG,CXCL2,IL6,PLAU,SGK1,SOCS3,TNC	
HMGA1		transcription regulator		-0.36	0.0414	ACTA2,CCND1,DHCR7,IGFBP3,IL6,KITLG,PIM2,SPARC	
CDH1		other		-1.792	0.0415	BIRC5,CCND1,CDC42,CTNNB1,IGFBP3	
TCOF1		transporter			0.0415	ADM,ASAP1,BNIP3L,HNRNPDL,TULP4	
ELF3	-2.22	transcription regulator			0.0416	CCL20,ELF3,IL6	
BAK1		other			0.0416	EDEM1,IFITM2,IL6	
CHADL		other			0.0416	CADM1,IGFBP3,IL6	
S100A6		transporter			0.0416	CCL20,CXCL2,CXCL8	
TNFSF15		cytokine			0.0416	CXCL2,CXCL8,IL6	
HOXA7	-2.689	transcription regulator			0.0416	HOXA7,IL7R,MSI2	
vitamin K3		chemical drug			0.0416	CASP3,CCL20,MAP1LC3B	
hymecromone		chemical drug			0.0416	ACTA2,CASP3,CXCL8	
targinine		chemical drug			0.0416	CXCL3,PLAUR,SOD1	
fucoidin		chemical reagent			0.0416	CASP3,CXCL8,IL6	
LGALS1		other		0.728	0.0417	ACTA2,CXCL2,HBEGF,IL6	
nitroprusside		chemical drug		0.152	0.0417	ADM,BIRC5,CXCL3,PARP1	
PAF1		other		-0.218	0.0417	HOXA9,IFITM3,ISG20,PLAUR	
WISP2		growth factor		-0.254	0.0417	ACTA2,CTNNB1,SPARC,TGFBR1	
BRAF		kinase			0.0417	CCND1,CXCL8,IL6,SERPINE2	
NFE2L2		transcription regulator		-0.847	0.0419	AKR1B10,AOX1,ARHGEF3,CDKN2C,CXCL2,CXCL3,CXCL8,DHCR7,IL6,IMPDH1,MAP1LC3B,NCKAP1,PSMB6,SOCS3,SOD1,SRXN1,USP14	

MYD88		other	Activated	2.146	0.0435	CCL2,CD274,CXCL2,CXCL3,CXCL8,DUSP1,FPR1,GDF15,IL6,MMP7,PARP1,SOCS3	
PKD1		ion channel		0.426	0.0435	CTNNB1,CXCL2,DDX3Y,FAM98B,FGFR3,GLS,HBEGF,TGFBR1,ZBTB10	
ELAVL1		other			0.044	DUSP1,HNRNPD,HOMER2,IL6,PTHLH,TOP2A	
geldanamycin		chemical - endogenous non-mammalian		-0.707	0.0443	BIRC5,CCND1,CNP,CXCL8,GBP1,GJA1,LBH,STAT1	
Ige		complex		0.265	0.0444	CCL2,CXCL2,CXCL8,IL6	
TRIM28		transcription regulator			0.0444	EFEMP1,ETS1,IL6,MAP3K5	
prostaglandin D2		chemical - endogenous mammalian			0.0453	CCND1,CXCL8,IL6	
PRKG1		kinase			0.0453	ACTA2,CCND1,CTNNB1	
CTBP1		enzyme			0.0453	SPRY2,TMED4,VCAN	
KRT17		other			0.0453	CXCL2,CXCL3,IL6	
ANXA1		enzyme			0.0453	CCL2,IL6,PLAU	
NCOA4		transcription regulator			0.0453	FGFR2,FGFR3,HOXA9	
proteasome inhibitor PSI		chemical - protease inhibitor			0.0453	CXCL2,IL6,PRKCA	
glycyrrhizic acid		chemical drug			0.0453	CASP3,EDN1,GJA1	
betulinic acid		chemical drug			0.0453	BIRC5,CCND1,IL6	
bardoxolone methyl		chemical drug			0.0453	BIRC5,CCND1,IL6	
HMGB1		transcription regulator	Activated	2.22	0.0171	CASP3,CCL2,CCL20,CXCL3,CXCL8,IL6	
TNFRSF1B		transmembrane receptor			0.0459	CASP3,CXCL8,IL6,SOCS3,TGFA	
cetuximab		biologic drug			0.0459	BNIP3L,PLAUR	
ORMDL3		other			0.0459	CCL20,CXCL8	
LILRA2		other			0.0459	CXCL8,IL6	
COL1A1		other			0.0459	CCL2,EDN1	
FZD8		g-protein coupled receptor			0.0459	BIRC5,CTNNB1	
mir-196		microrna			0.0459	HOXA7,HOXA9	
mir-218		microrna			0.0459	NT5E,VAV3	
mir-127		microrna			0.0459	DUSP1,IL6	
CCL21		cytokine			0.0459	CCL2,CXCL8	
HIF3A		transcription			0.0459	EDN1,PLAUR	

		regulator					
TLE1		transcription regulator			0.0459	BCL2A1,DUSP1	
RLN2		other			0.0459	ACTA2,TGFB2	
LPAR1		g-protein coupled receptor			0.0459	CXCL8,IL6	
CRY2		enzyme			0.0459	IL6,SGK1	
PLA2G4A		enzyme			0.0459	CXCL8,IL6	
CD180		other			0.0459	BCL2A1,IL6	
VIM		other			0.0459	CCL2,PLAU	
BMX		kinase			0.0459	CXCL8,IL6	
NBEAL2		other			0.0459	CXCL2,CXCL3	
PTGER1		g-protein coupled receptor			0.0459	CXCL8,IL6	
CRY1		enzyme			0.0459	IL6,SGK1	
TOPBP1		other			0.0459	GADD45A,IGFBP3	
SP7		transcription regulator			0.0459	IL6,SATB2	
OPRM1		g-protein coupled receptor			0.0459	ADM,IL6	
6-aminopyrazolopyrimidine derivative compound II		chemical - kinase inhibitor			0.0459	IFITM3,IL6	
vatalanib		chemical drug			0.0459	ACTA2,CCND1	
bisphenol A diglycidyl ether		chemical reagent			0.0459	ACTA2,TGFBR1	
formoterol		chemical drug			0.0459	CDKN1C,IL6	
ethylenediaminetetraacetic acid		chemical drug			0.0459	BCL2A1,CXCL8	
[D-Ala2,N-Me-Phe4,Gly5-ol]-Enkephalin		chemical reagent			0.0459	CCL2,RGS4	
KT5823		chemical - kinase inhibitor			0.0459	EDN1,PLAUR	
palmitoleic acid		chemical - endogenous mammalian			0.0459	CXCL2,IL6	

cyclomaltodextrin		chemical drug			0.0459	CXCL3,IL6	
auranofin		chemical drug			0.0459	CXCL8,IL6	
27-hydroxycholesterol		chemical - endogenous non-mammalian			0.0459	CASP3,CCL2	
STAT4		transcription regulator	Activated	2.484	0.0163	ARL5B,CCL2,CXCL2,CXCL3,DNAJB6,GJA1,IL6,ISG20,PLAC8,SLC2A3,SOCS3,STAT1	
mir-155		microrna		1.177	0.0459	CCL2,CCND1,CXCL8,IL6,SMAD2,SOCS3	
olanzapine		chemical drug		-0.896	0.0459	AOX1,CTNNB1,FGFR2,GSK3B,SOD1,SPRY2	
TNFSF13B		cytokine		1.969	0.0472	BCL2A1,CCL2,CXCL8,PIM2	
docetaxel		chemical drug		0.025	0.0472	BIRC5,PIM1,PLAU,PRKCA	
PTPN1		phosphatase		-0.152	0.0472	CXCL2,CXCL3,DUSP1,EDEM1	
BRD2		kinase			0.0472	DNAJA1,IL6,IL7R,VAV3	
vitamin D		chemical drug			0.0472	BIRC5,CCL2,IL6,SGK1	
PLG		peptidase		0.774	0.0481	CCL2,EDN1,IL6,PLAU,PRKAR2B	
cadmium		chemical toxicant		-0.152	0.0481	CASP3,CCND1,ITPR1,PLAU,SGK1	
CYP19A1		enzyme		-0.537	0.0481	BACE1,CCND1,GSK3B,IL6,TGFA	
prostaglandin J2		chemical - endogenous non-mammalian			0.0492	CXCL8,GDF15,IL6	
PLP1		other			0.0492	CCL2,CCL20,CXCL2	
IFIH1		enzyme			0.0492	CXCL2,IL6,PTPRJ	
TYK2		kinase			0.0492	CD274,OSMR,SOCS3	
CGA		other			0.0492	CXCL8,SFRP4,SGK1	
NUPR1		transcription regulator	Activated	3.024	0.000248	ABL2,ADM,AKAP12,AREG,CEP97,CERK,CREB5,CXCL3,CXCL8,ELL2,ELMOD1,ETS1,FAM162A,FGF1,GADD45A,GDF15,HBEGF,PARP1,PIM1,PRKACA,PTPRJ,RANBP6,RASAL2,SAMD4A,SIGMAR1,SLC25A12,SLC6A6,TMEM158	
EIF2AK3		kinase			0.0499	CCND1,FGF2,GADD45A,MAP1LC3B,MTHFR,TBPL1	
RTN4	-3.369	other		1.948	0.0501	FGF1,IL6,RTN4,STAT1	
nifedipine		chemical drug		-1.974	0.0505	BIRC5,CCL2,EDN1,IL6,SGK1	
THRB		ligand-dependent nuclear receptor		-1.941	0.0511	CCL2,CCND1,CDCA7L,CTNNB1,CXCL2,CXCL3,IGFBP3,IL6,MMP7,SFRP4	
IL2RG		transmembrane receptor	Activated	2	0.0531	ETS1,IL6,IL7R,NEDD4L	
Ccl2		cytokine		1.995	0.0594	CXCL2,CXCL3,ETS1,IL6	
MYOCD		transcription regulator	Activated	2.161	0.0606	ACTA2,CALD1,GJA1,LPP,VCAN	
GHRL		growth factor		-1.944	0.0842	EDN1,IL6,SCD,UCP2	

RUNX2		transcription regulator	Inhibited	-2.2	0.0886	ACTA2,BIRC5,CCND1,CXCL8,FGFR2,PLAU	
GW9662		chemical reagent	Activated	2.2	0.0904	CCL2,GDF15,IL6,SDC1,UCP2	
25-hydroxy cholesterol		chemical reagent		1.98	0.0921	CXCL8,FAM189B,IL6,SCD	
erlotinib		chemical drug		-1.951	0.0921	CCL2,CXCL8,IL6,SLC2A3	
FOXA1		transcription regulator	Inhibited	-2.176	0.0976	ACTA2,EFHD1,FMN1,GLS,IL6,SOD1,UST	
THRA		ligand-dependent nuclear receptor	Inhibited	-2.2	0.106	CCL2,CCND1,CXCL2,CXCL3,IL6,MMP7	
PAX6		transcription regulator	Activated	2.236	0.107	CCND1,CDCA7,CRISPLD2,DDX3Y,EFNB2,SMAD2,SMC2,TNC,TROVE2	
HOXA10		transcription regulator		1.89	0.109	ADM,GJA1,IGFBP3,PTGER4,RNASE4,SCD,STK17B,TCEB1	
NLRP3	2.111	other		1.868	0.109	ACTA2,CXCL2,IL6,PARP1	
RIPK2	-2.369	kinase		1.952	0.118	CXCL2,CXCL3,IL6,SCD	
L-glutamic acid		chemical - endogenous mammalian	Inhibited	-2.211	0.134	CASP3,CCND1,FGF2,SORBS1,SORL1	
FLT1		kinase	Inhibited	-2	0.141	BIRC5,BNIP3L,CSNK2A1,TOMM22	
captopril		chemical drug	Inhibited	-2	0.146	BIRC5,IL6,MYO6,TGFB2	
2,4,5,2',4',5'-hexachlorobiphenyl		chemical toxicant	Activated	2	0.151	AKAP12,AOX1,GADD45A,GFRA1	
RORA		ligand-dependent nuclear receptor	Inhibited	-2.137	0.252	CXCL8,IL6,ITPR1,SCD,SLC2A3,SOCS3,UCP2	
FOXA2		transcription regulator		-1.98	0.256	ACTA2,CCND1,EPCAM,IL6,SCD,UCP2,UST	
SRF		transcription regulator	Activated	2.169	0.271	ACTA2,AKAP12,BICC1,CALD1,CTNNB1,ETS1,FGF1,GLIPR1,LBH,PDLIM7,TNC	
RXRA	-2.189	ligand-dependent nuclear receptor	Inhibited	-2.183	0.399	CCL20,CCND1,IL6,RXRA,SCD,SDC1,SORBS1,TGFB2	
POR		enzyme		1.982	0.529	DHCR7,FGF1,JDP2,SCD,STAT1	

Table SVI. The result of IPA canonical pathway analysis.

Ingenuity Canonical Pathways	-log(P-value)	Ratio	z-score	Molecules
IGF-1 Signaling	3.4	0.0943	-2.333	FGFR3,SOCS3,CSNK2A2,NEDD4,CSNK2A1,PRKAR2B,MRAS,IGFBP3,PRKACA,FGFR2
SAPK/JNK Signaling	2.84	0.0865	-2.333	FGFR3,GADD45A,CDC42,CRKL,MRAS,FGFR2,MAP3K5,GNG5,MAP3K2
Colorectal Cancer Metastasis Signaling	6.34	0.0891	-2.236	GNG4,SMAD2,MMP7,TGFBR1,CASP3,FGFR2,IL6,TCF3,BIRC5,CCND1,FGFR3,PRKAR2B,MRAS,PRKACA,TGFB2,GSK3B,STAT1,CTNNB1,GNG5,GNG12,PTGER4,TCF7L2
Acute Myeloid Leukemia Signaling	3.94	0.11	-2.121	FGFR3,KITLG,CCNA1,PIM1,MRAS,FGFR2,TCF3,CCND1,TCF7L2,PIM2
GM-CSF Signaling	3.26	0.11	-2.121	FGFR3,ETS1,PIM1,MRAS,FGFR2,STAT1,BCL2A1,CCND1
G Beta Gamma Signaling	4.81	0.125	-1.508	GNG4,PRKAR2B,CDC42,MRAS,GNAI1,PRKACA,HBEGF,PRKCH,GNG5,GNG12,PRKCA
Actin Cytoskeleton Signaling	3.07	0.0658	-1.508	MPRIP,F2R,FGF2,CRKL,FGFR2,FGF1,FGFR3,ACTA2,CDC42,VAV3,MRAS,ARHGAP35,GNG12,NCKAP1,FGF5
Pancreatic Adenocarcinoma Signaling	3.64	0.0932	-1.414	FGFR3,SMAD2,TGFBR1,CDC42,TGFA,TGFB2,FGFR2,HBEGF,STAT1,CCND1,BIRC5
ERK/MAPK Signaling	2.71	0.0653	-1.387	FGFR3,ETS1,PPP1CC,ELF3,PRKAR2B,DUSP1,CRKL,MRAS,PRKACA,FGFR2,STAT1,CREB5,PRKCA
Tec Kinase Signaling	3.89	0.0824	-1.265	FGFR3,GNG4,ACTA2,VAV3,GTF2I,MRAS,GNAI1,FGFR2,STAT2,PRKCH,GNG5,STAT1,GNG12,PRKCA
B Cell Receptor Signaling	2.99	0.0703	-1.155	FGFR3,ETS1,RAP2B,CDC42,VAV3,MRAS,FGFR2,GSK3B,MAP3K5,BCL2A1,CREB5,TCF3,MAP3K2
Wnt/β-catenin Signaling	2.84	0.071	-1.155	SFRP4,CSNK2A2,GJA1,MMP7,CSNK2A1,TGFBR1,TGFB2,GSK3B,TCF3,CTNNB1,CCND1,TCF7L2
GDNF Family Ligand-Receptor Interactions	2.48	0.0921	-2.236	FGFR3,PDLIM7,CDC42,GFRA1,MRAS,FGFR2,ITPR1
Non-Small Cell Lung Cancer Signaling	3.1	0.104	-1.134	FGFR3,TGFA,MRAS,FGFR2,ITPR1,RXRA,CCND1,PRKCA
Ephrin Receptor Signaling	2.74	0.069	-1.134	GNG4,EFNB2,KALRN,SORBS1,CDC42,CRKL,MRAS,GNAI1,CREB5,GNG5,GNG12,FGF1
fMLP Signaling in Neutrophils	4.18	0.0992	-1	FGFR3,GNG4,CDC42,MRAS,GNAI1,FGFR2,PRKCH,ITPR1,GNG5,GNG12,PRKCA,FPR1
PDGF Signaling	3.3	0.1	-1	FGFR3,CSNK2A2,CSNK2A1,ABL2,CRKL,MRAS,FGFR2,STAT1,PRKCA
Gαq Signaling	2.54	0.0688	-1	FGFR3,GNG4,MRAS,RGS4,FGFR2,PRKCH,ITPR1,GSK3B,GNG5,GNG12,PRKCA
Neurotrophin/TRK Signaling	2.48	0.0921	-1.89	FGFR3,CDC42,SPRY2,MRAS,FGFR2,MAP3K5,CREB5
HGF Signaling	5.09	0.113	-0.905	ETS1,CRKL,FGFR2,IL6,MAP3K5,CCND1,FGFR3,ELF3,CDC42,MRAS,PRKCH,PRKCA,MAP3K2
IL-8 Signaling	2.75	0.066	-0.905	FGFR3,GNG4,CXCL8,MRAS,GNAI1,FGFR2,HBEGF,PRKCH,GNG5,CCND1,GNG12,LASP1,PRKCA
Glioma Signaling	2.68	0.0818	-0.707	FGFR3,RBL2,TGFA,MRAS,CDKN2C,FGFR2,PRKCH,CCND1,PRKCA
UVA-Induced MAPK Signaling	2.32	0.0784	-1.89	FGFR3,CASP3,MRAS,FGFR2,SMPD1,STAT1,PRKCA,PARP1
P2Y Purigenic Receptor Signaling Pathway	3.81	0.0909	-0.632	FGFR3,GNG4,PRKAR2B,MRAS,GNAI1,PRKACA,FGFR2,PRKCH,CREB5,GNG5,GNG12,PRKCA
CREB Signaling in Neurons	3.01	0.0707	-0.632	FGFR3,GNG4,PRKAR2B,MRAS,GNAI1,PRKACA,FGFR2,PRKCH,ITPR1,CREB5,GNG5,GNG12,PRKCA
Insulin Receptor Signaling	2.98	0.078	-0.632	FGFR3,SOCS3,PPP1CC,PRKAR2B,TRIP10,SGK1,CRKL,MRAS,PRKACA,FGFR2,GSK3B
HMGB1 Signaling	2.64	0.0752	-0.632	FGFR3,CXCL8,KAT2B,CCL2,CDC42,MRAS,TGFB2,FGFR2,IL6,PLAT
Thrombin Signaling	2.63	0.064	-0.632	FGFR3,GNG4,MPRIP,F2R,MRAS,GNAI1,FGFR2,PRKCH,ARHGEF3,ITPR1,GNG5,GNG12,PRKCA
GNRH Signaling	3.91	0.093	-0.577	PRKAR2B,CDC42,MRAS,GNAI1,PRKACA,PRKCH,MAP3K5,ITPR1,DNM1L,CREB5,PRKCA,MAP3K2
Ephrin B Signaling	4.78	0.137	-0.447	GNG4,EFNB2,KALRN,CDC42,VAV3,MRAS,GNAI1,CTNNB1,GNG5,GNG12

JAK/Stat Signaling	2.26	0.0843	-1.89	FGFR3,SOCS3,MRAS,FGFR2,STAT2,IL6,STAT1
Androgen Signaling	4.55	0.108	-0.378	GNG4,PRKAR2B,KAT2B,MRAS,GNAI1,PRKACA,PRKCH,GNG5,CCND1,GNG12,PRKCA,GTF2H3
AMPK Signaling	2.44	0.0635	-1.667	PBRM1,FGFR3,PRKAR2B,KAT2B,PRKAB2,MRAS,PRKACA,FGFR2,CREB5,CCND1,PFKFB2,PHF10
EGF Signaling	2.75	0.103	-0.378	FGFR3,CSNK2A2,CSNK2A1,FGFR2,ITPR1,STAT1,PRKCA
Glioma Invasiveness Signaling	2.04	0.0857	-1.633	FGFR3,F2R,MRAS,PLAUR,FGFR2,PLAU
Renin-Angiotensin Signaling	2.97	0.0833	-0.333	FGFR3,PRKAR2B,CCL2,MRAS,PRKACA,FGFR2,PRKCH,ITPR1,STAT1,PRKCA
PPARα/RXRα Activation	2.65	0.0674	-0.333	IL1R2,SMAD2,TGFBR1,PRKAR2B,PRKAB2,GPD2,MRAS,PRKACA,TGFB2,IL6,RXRA,PRKCA
Cardiac Hypertrophy Signaling	2.94	0.0638	-0.277	FGFR3,GNG4,PRKAR2B,TGFBR1,PRKACA,MRAS,TGFB2,GNAI1,FGFR2,GSK3B,IL6,MAP3K5,GNG5,GNG12,MAP3K2
FGF Signaling	3.99	0.111	0	FGFR3,FGF2,CRKL,FGFR2,MAP3K5,ITPR1,CREB5,PRKCA,FGF1,FGF5
NRF2-mediated Oxidative Stress Response	3.32	0.0725	0	USP14,FGFR2,DNAJC10,SOD1,MAP3K5,DNAJA1,FGFR3,ACTA2,MRAS,PRKCH,GSK3B,AOX1,DNAJB6,PRKCA
Aldosterone Signaling in Epithelial Cells	3.44	0.0783	0.378	NEDD4,SGK1,FGFR2,DNAJC10,ITPR1,DNAJA1,FGFR3,DUSP1,PRKCH,DNAJB6,DNAJC22,HSPA4L,PRKCA
p53 Signaling	2.65	0.0811	0.378	FGFR3,KAT2B,GADD45A,FGFR2,GSK3B,CTNNB1,CCND1,BIRC5,SERPINE2
Role of Pattern Recognition Receptors in Recognition of Bacteria and Viruses	2.55	0.073	0.378	FGFR3,CXCL8,NLRP3,TGFB2,FGFR2,PRKCH,IL6,RIPK2,C3AR1,PRKCA
Role of NFAT in Cardiac Hypertrophy	4.42	0.0833	0.535	GNG4,TGFBR1,GNAI1,FGFR2,ITPR1,IL6,FGFR3,PRKAR2B,TGFB2,MRAS,PRKACA,PRKCH,GSK3B,GNG5,GNG12,PRKCA
PTEN Signaling	3	0.084	0.632	FGFR3,CSNK2A2,CSNK2A1,TGFBR1,CASP3,CDC42,MRAS,FGFR2,GSK3B,CCND1
α-Adrenergic Signaling	4.11	0.115	1.134	GNG4,PRKAR2B,MRAS,GNAI1,PRKACA,PRKCH,ITPR1,GNG5,GNG12,PRKCA
Protein Kinase A Signaling	4.96	0.0663	2.294	AKAP12,TGFBR1,DUSP22,PPP1CC,PTPRJ,TGFB2,GSK3B,GNG5,CTNNB1,GNG12,PRKCA,GNG4,PTPRE,PTPRG,PTPRK,GNAI1,ITPR1,TCF3,CREB5,ANAPC13,PRKAR2B,DUSP1,PRKACA,PRKCH,TCF7L2,SIRPA
Glucocorticoid Receptor Signaling	5.8	0.0801	NaN	PBRM1,CXCL8,SMAD2,CDKN1C,TGFBR1,PRKAB2,SGK1,FGFR2,IL6,PTGES3,IL1R2,FGFR3,CXCL3,KAT2B,CCL2,DUSP1,MRAS,PRKACA,TGFB2,PLAU,STAT1,PHF10,GTF2H3
RAR Activation	5.68	0.0947	NaN	PBRM1,SMAD2,CSNK2A1,NR2F2,MAP3K5,PARP1,CSNK2A2,KAT2B,PRKAR2B,DUSP1,IGFBP3,TGFB2,PRKACA,PRKCH,RXRA,GTF2H3,PRKCA,PHF10
Renal Cell Carcinoma Signaling	2.32	0.0864	-1.342	FGFR3,ETS1,CDC42,TGFA,MRAS,FGFR2,TCEB1
HER-2 Signaling in Breast Cancer	4.81	0.125	NaN	FGFR3,CDC42,MRAS,FGFR2,PRKCH,MAP3K5,GSK3B,ITGB6,CCND1,AREG,PRKCA
Hepatic Fibrosis / Hepatic Stellate Cell Activation	4.68	0.0874	NaN	CXCL8,SMAD2,TGFBR1,FGF2,FGFR2,IL6,FGF1,IL1R2,CXCL3,ACTA2,EDN1,CCL2,IGFBP3,TGFA,TGFB2,STAT1
Thyroid Cancer Signaling	4.2	0.175	NaN	CXCL8,MRAS,RXRA,TCF3,CTNNB1,CCND1,TCF7L2
Ovarian Cancer Signaling	4.05	0.0903	NaN	FGFR3,MMP7,GJA1,PRKAR2B,EDN1,PRKACA,MRAS,FGFR2,GSK3B,CTNNB1,TCF3,CCND1,TCF7L2
Clathrin-mediated Endocytosis Signaling	3.74	0.0761	NaN	MYO6,CSNK2A1,F2R,FGF2,FGFR2,FGF1,FGFR3,CSNK2A2,ACTA2,CDC42,TFRC,ITGB6,DNM1L,FGF5,RAB4B
ErbB Signaling	3.68	0.102	NaN	FGFR3,CDC42,TGFA,MRAS,FGFR2,HBEGF,PRKCH,GSK3B,AREG,PRKCA
Breast Cancer Regulation by Stathmin1	3.6	0.0739	NaN	FGFR3,GNG4,PPP1CC,PRKAR2B,CDC42,MRAS,GNAI1,PRKACA,FGFR2,PRKCH,ARHGEF3,ITPR1,GNG5,GNG12,PRKCA
Molecular Mechanisms of Cancer	3.54	0.0588	NaN	RAP2B,SMAD2,TGFBR1,CASP3,GNAI1,FGFR2,CDKN2C,MAP3K5,TCF3,CCND1,FGFR3,PRKAR2B,NF1,CDC42,MRAS,PRKACA,TGFB2,PRKCH,ARHGEF3,GSK3B,CTNNB1,PRKCA
Role of Tissue Factor in Cancer	3.51	0.0902	NaN	FGFR3,CXCL8,CASP3,PDXP,CDC42,MRAS,PLAUR,FGFR2,HBEGF,PRKCA,FGF5

GPCR-Mediated Nutrient Sensing in Enteroendocrine Cells	3.48	0.106	NaN	GNG4,PRKAR2B,GNAI1,PRKACA,PRKCH,ITPR1,GNG5,GNG12,PRKCA
Regulation of the Epithelial-Mesenchymal Transition Pathway	3.41	0.0741	NaN	ETS1,SMAD2,TGFBR1,FGF2,FGFR2,TCF3,FGF1,FGFR3,TGFB2,MRAS,GSK3B,CTNNB1,TCF7L2,FGF5
Bladder Cancer Signaling	3.41	0.103	NaN	FGFR3,CXCL8,DAPK1,MMP7,FGF2,MRAS,CCND1,FGF1,FGF5
CCR3 Signaling in Eosinophils	3.27	0.0846	NaN	FGFR3,GNG4,MPRIP,MRAS,GNAI1,FGFR2,PRKCH,ITPR1,GNG5,GNG12,PRKCA
Factors Promoting Cardiogenesis in Vertebrates	3.23	0.0978	NaN	SMAD2,TGFBR1,TGFB2,PRKCH,GSK3B,TCF3,CTNNB1,TCF7L2,PRKCA
Role of Macrophages, Fibroblasts and Endothelial Cells in Rheumatoid Arthritis	2.95	0.0583	NaN	CXCL8,SFRP4,SOCS3,FGF2,FGFR2,IL6,CREB5,TCF3,CCND1,IL1R2,FGFR3,CCL2,MRAS,PRKCH,GSK3B,CTNNB1,TCF7L2,PRKCA
Human Embryonic Stem Cell Pluripotency	2.93	0.0769	NaN	FGFR3,SMAD2,TGFBR1,FGF2,MRAS,TGFB2,FGFR2,GSK3B,TCF3,CTNNB1,TCF7L2
Virus Entry via Endocytic Pathways	2.9	0.0882	NaN	FGFR3,ACTA2,CDC42,MRAS,TFRC,FGFR2,PRKCH,ITGB6,PRKCA
Gap Junction Signaling	2.87	0.0714	NaN	FGFR3,PRKAR2B,ACTA2,MRAS,GNAI1,PRKACA,FGFR2,PRKCH,ITPR1,CTNNB1,PRKCA,MAP3K2
Role of JAK family kinases in IL-6-type Cytokine Signaling	2.45	0.16	NaN	SOCS3,OSMR,IL6,STAT1
Growth Hormone Signaling	2.32	0.0864	-1.134	FGFR3,SOCS3,IGFBP3,FGFR2,PRKCH,STAT1,PRKCA
Gαi Signaling	2.42	0.075	0.447	GNG4,PRKAR2B,MRAS,GNAI1,PRKACA,RGS4,GNG5,GNG12,FPR1
Mechanisms of Viral Exit from Host Cells	2.42	0.122	NaN	NEDD4,ACTA2,LMNB2,PRKCH,PRKCA
Prolactin Signaling	2.26	0.0843	-1.134	FGFR3,SOCS3,MRAS,FGFR2,PRKCH,STAT1,PRKCA
Huntington's Disease Signaling	2.41	0.0581	0.707	FGFR3,GNG4,CASP3,SGK1,GLS,FGFR2,PRKCH,ITPR1,DNM1L,GNG5,CREB5,VTI1B,GNG12,PRKCA
Role of IL-17A in Psoriasis	2.4	0.231	NaN	CXCL8,CXCL3,CCL20
Antiproliferative Role of TOB in T Cell Signaling	2.39	0.154	NaN	SMAD2,TGFBR1,CCNA1,TGFB2
Epithelial Adherens Junction Signaling	2.35	0.0685	NaN	TGFBR1,ACTA2,SORBS1,CDC42,MRAS,TGFB2,TCF3,CTNNB1,TCF7L2,FGF1
eNOS Signaling	2.17	0.0645	-1.134	FGFR3,PRKAR2B,CCNA1,PRKAB2,CASP3,PRKACA,FGFR2,PRKCH,ITPR1,PRKCA
Germ Cell-Sertoli Cell Junction Signaling	2.76	0.0694	NaN	FGFR3,TGFBR1,ACTA2,SORBS1,CDC42,MRAS,TGFB2,FGFR2,MAP3K5,CTNNB1,RAB8B,MAP3K2
Amyloid Processing	2.73	0.118	NaN	CSNK2A2,CSNK2A1,PRKAR2B,PRKACA,BACE1,GSK3B
Macropinocytosis Signaling	2.32	0.0864	-0.816	FGFR3,CDC42,MRAS,FGFR2,PRKCH,ITGB6,PRKCA
Urate Biosynthesis/Inosine 5'-phosphate Degradation	2.31	0.214	NaN	NT5E,IMPDH1,AOX1
CCR5 Signaling in Macrophages	2.72	0.101	NaN	GNG4,MRAS,GNAI1,PRKCH,GNG5,GNG12,PRKCA
Chronic Myeloid Leukemia Signaling	2.27	0.0769	NaN	FGFR3,RBL2,TGFBR1,CRKL,MRAS,TGFB2,FGFR2,CCND1
IL-3 Signaling	2.26	0.0843	NaN	FGFR3,CRKL,MRAS,FGFR2,PRKCH,STAT1,PRKCA
VDR/RXR Activation	2.41	0.0897	-1	CSNK2A1,GADD45A,IGFBP3,TGFB2,PRKCH,RXRA,PRKCA
Glioblastoma Multiforme Signaling	2.09	0.0629	-1	FGFR3,NF1,CDC42,MRAS,FGFR2,ITPR1,GSK3B,TCF3,CTNNB1,CCND1
IL-6 Signaling	2.26	0.0709	-0.333	IL1R2,FGFR3,CXCL8,SOCS3,CSNK2A2,CSNK2A1,MRAS,FGFR2,IL6
Endometrial Cancer Signaling	2.23	0.0938	NaN	FGFR3,MRAS,FGFR2,GSK3B,CTNNB1,CCND1
Granulocyte Adhesion and Diapedesis	2.21	0.0621	NaN	IL1R2,CXCL8,CXCL3,MMP7,SDC1,CCL2,GNAI1,CCL20,CLDN2,CXCL2,FPR1

IL-17 Signaling	2.21	0.0824	NaN	FGFR3,CXCL8,CCL2,MRAS,FGFR2,IL6,GSK3B
PXR/RXR Activation	2.2	0.0923	NaN	SCD,PRKAR2B,PRKACA,IL6,RXRA,PAPSS2
Thrombopoietin Signaling	2.2	0.0923	-0.816	FGFR3,MRAS,FGFR2,PRKCH,STAT1,PRKCA
Protein Ubiquitination Pathway	2.19	0.0549	NaN	NEDD4,USP12,USP14,MED20,DNAJC10,DNAJA1,PSMB6,TCEB1,UBE2G1,DNAJB6,PSMC2,NEDD4L,DNAJC22,HSPA4L
Axonal Guidance Signaling	2.19	0.0467	NaN	GNG4,PLXNA1,MMP7,KALRN,NRP2,CRKL,GNAI1,FGFR2,SEMA4F,FGFR3,EFNB2,PRKAR2B,CDC42,RTN4,MRAS,PRKACA,PRKCH,GSK3B,GNG5,GNG12,PRKCA
LPS-stimulated MAPK Signaling	2.18	0.0814	-0.816	FGFR3,CDC42,MRAS,FGFR2,PRKCH,MAP3K5,PRKCA
Sertoli Cell-Sertoli Cell Junction Signaling	2.65	0.0674	NaN	PRKAR2B,ACTA2,SORBS1,CDC42,MRAS,PRKACA,CLDN2,MAP3K5,GSK3B,CTNNB1,RAB8B,MAP3K2
Gαs Signaling	2.15	0.0734	-0.816	GNG4,PRKAR2B,MRAS,PRKACA,CREB5,GNG5,PTGER4,GNG12
RAN Signaling	2.13	0.188	NaN	KPNA6,TNPO1,KPNA1
Granzyme B Signaling	2.13	0.188	NaN	CASP3,LMNB2,PARP1
Role of IL-17A in Arthritis	2.13	0.0896	NaN	FGFR3,CXCL8,CXCL3,CCL2,CCL20,FGFR2
Neuregulin Signaling	2.13	0.0795	0.816	CRKL,TGFA,MRAS,HBEGF,PRKCH,AREG,PRKCA
RhoGDI Signaling	2.29	0.0636	1.134	GNG4,ACTA2,CDC42,MRAS,GNAI1,ARHGAP35,ARHGEF3,GNG5,GNG12,ARHGDIB,PRKCA
G Protein Signaling Mediated by Tubby	2.06	0.125	NaN	GNG4,MRAS,GNG5,GNG12
IL-1 Signaling	2.05	0.0769	NaN	GNG4,PRKAR2B,MRAS,GNAI1,PRKACA,GNG5,GNG12
Leukocyte Extravasation Signaling	2.5	0.0619	NaN	FGFR3,MMP7,ACTA2,CDC42,VAV3,CRKL,GNAI1,ARHGAP35,FGFR2,PRKCH,CLDN2,CTNNB1,PRKCA
Role of JAK1 and JAK3 in γc Cytokine Signaling	2.01	0.0845	NaN	IL7R,FGFR3,SOCS3,MRAS,FGFR2,STAT1
Aryl Hydrocarbon Receptor Signaling	1.99	0.0643	NaN	RBL2,CCNA1,NFIA,POLA1,TGFB2,IL6,RXRA,CCND1,PTGES3
CXCR4 Signaling	1.99	0.0606	-0.707	FGFR3,GNG4,MRAS,GNAI1,FGFR2,PRKCH,ITPR1,GNG5,GNG12,PRKCA
Docosahexaenoic Acid (DHA) Signaling	1.98	0.0962	NaN	FGFR3,CASP3,FGFR2,GSK3B,BCL2A1
Prostate Cancer Signaling	1.98	0.0745	NaN	FGFR3,MRAS,FGFR2,GSK3B,CREB5,CTNNB1,CCND1
NGF Signaling	1.97	0.0684	-1.414	FGFR3,CDC42,MRAS,FGFR2,SMPD1,MAP3K5,CREB5,MAP3K2
Oncostatin M Signaling	1.97	0.118	-1	MRAS,OSMR,PLAU,STAT1
STAT3 Pathway	1.96	0.0822	-1.633	FGFR3,SOCS3,TGFBR1,PIM1,MRAS,FGFR2
Melanocyte Development and Pigmentation Signaling	1.95	0.0737	-1.89	FGFR3,KITLG,PRKAR2B,MRAS,PRKACA,FGFR2,CREB5
Coagulation System	1.92	0.114	-1	F2R,PLAUR,PLAU,PLAT
Synaptic Long Term Potentiation	1.91	0.0667	0.707	PPP1CC,PRKAR2B,MRAS,PRKACA,PRKCH,ITPR1,CREB5,PRKCA
Antiproliferative Role of Somatostatin Receptor 2	1.9	0.08	-2	FGFR3,GNG4,MRAS,FGFR2,GNG5,GNG12
ILK Signaling	1.9	0.0561	-0.632	FGFR3,CASP3,ACTA2,CDC42,FERMT2,FGFR2,GSK3B,ITGB6,CREB5,CTNNB1,CCND1
Superpathway of Serine and Glycine Biosynthesis I	1.9	0.286	NaN	PSPH,SHMT1
Interferon Signaling	1.88	0.111	-2	IFITM3,STAT2,STAT1,IFITM2
Role of PI3K/AKT Signaling in the Pathogenesis of Influenza	1.87	0.0789	-1	FGFR3,CRKL,GNAI1,FGFR2,GSK3B,PLAC8
Purine Nucleotides Degradation II (Aerobic)	1.86	0.15	NaN	NT5E,IMPDH1,AOX1

Estrogen-Dependent Breast Cancer Signaling	1.85	0.0779	NaN	FGFR3,MRAS,FGFR2,AKR1B15,CREB5,CCND1
IL-17A Signaling in Airway Cells	1.85	0.0779	NaN	FGFR3,CXCL3,CCL20,FGFR2,IL6,GSK3B
Role of BRCA1 in DNA Damage Response	1.82	0.0769	NaN	PBRM1,RBL2,FAM175A,GADD45A,STAT1,PHF10
Erythropoietin Signaling	1.8	0.0759	NaN	FGFR3,SOCS3,MRAS,FGFR2,PRKCH,PRKCA
Airway Pathology in Chronic Obstructive Pulmonary Disease	1.78	0.25	NaN	CXCL8,CXCL3
Relaxin Signaling	1.78	0.0592	-2.449	FGFR3,GNG4,PRKAR2B,MRAS,GNAI1,PRKACA,FGFR2,GNG5,GNG12
Type II Diabetes Mellitus Signaling	1.78	0.063	-0.816	FGFR3,SOCS3,PRKAB2,FGFR2,SMPD1,PRKCH,MAP3K5,PRKCA
NF-κB Signaling	1.74	0.0556	-1.265	IL1R2,FGFR3,CSNK2A2,CSNK2A1,TGFBR1,TGFA,MRAS,PRKACA,FGFR2,GSK3B
Gα12/13 Signaling	1.72	0.0615	-2.828	FGFR3,F2R,CDC42,VAV3,MRAS,FGFR2,MAP3K5,CTNNB1
Mouse Embryonic Stem Cell Pluripotency	1.71	0.066	-1.89	FGFR3,MRAS,FGFR2,GSK3B,TCF3,CTNNB1,TCF7L2
Folate Transformations I	1.68	0.222	NaN	MTHFR,SHMT1
Hepatic Cholestasis	1.66	0.0566	NaN	IL1R2,CXCL8,PRKAR2B,PRKACA,TGFB2,PRKCH,IL6,RXRA,PRKCA
FLT3 Signaling in Hematopoietic Progenitor Cells	1.66	0.0706	NaN	FGFR3,MRAS,FGFR2,STAT2,STAT1,CREB5
UVC-Induced MAPK Signaling	1.65	0.0952	0	MRAS,SMPD1,PRKCH,PRKCA
Cell Cycle: G1/S Checkpoint Regulation	1.62	0.0781	-1	RBL2,TGFB2,CDKN2C,GSK3B,CCND1
IL-2 Signaling	1.62	0.0781	NaN	FGFR3,CSNK2A2,CSNK2A1,MRAS,FGFR2
Dopamine-DARPP32 Feedback in cAMP Signaling	1.62	0.0556	1.667	PPP1CC,PRKAR2B,KCNJ16,GNAI1,PRKACA,PRKCH,ITPR1,CREB5,PRKCA
Corticotropin Releasing Hormone Signaling	1.61	0.0631	0	PRKAR2B,GNAI1,PRKACA,PRKCH,ITPR1,CREB5,PRKCA
Cardiac β-adrenergic Signaling	1.6	0.0584	-1	AKAP12,GNG4,PPP1CC,PRKAR2B,MRAS,PRKACA,GNG5,GNG12
Thiamin Salvage III	1.59	1	NaN	TPK1
VEGF Family Ligand-Receptor Interactions	1.59	0.0682	-0.447	FGFR3,NRP2,MRAS,FGFR2,PRKCH,PRKCA
Role of IL-17F in Allergic Inflammatory Airway Diseases	1.59	0.0909	2	CXCL8,CCL2,IL6,CREB5
Integrin Signaling	1.58	0.0502	-1.897	RAP2B,FGFR3,MPRIP,ACTA2,ASAP1,CDC42,CRKL,MRAS,FGFR2,GSK3B,ITGB6
Nitric Oxide Signaling in the Cardiovascular System	1.58	0.0619	-0.378	FGFR3,PRKAR2B,PRKACA,FGFR2,PRKCH,ITPR1,PRKCA
Apoptosis Signaling	1.57	0.0674	-0.816	CASP3,MRAS,MAP3K5,BCL2A1,PRKCA,PARP1
Neuropathic Pain Signaling In Dorsal Horn Neurons	1.56	0.0614	-0.378	FGFR3,PRKAR2B,PRKACA,FGFR2,PRKCH,ITPR1,PRKCA
IL-9 Signaling	1.55	0.0889	-2	FGFR3,SOCS3,FGFR2,STAT1
3-phosphoinositide Biosynthesis	1.54	0.0515	NaN	FGFR3,SOCS3,PPP1CC,PTPRJ,PDXP,DUSP1,PPP1R8,FGFR2,PPP4R1,SIRPA
Tight Junction Signaling	1.54	0.0539	NaN	PRKAR2B,TGFBR1,ACTA2,CDC42,PRKACA,TGFB2,CLDN2,CTNNB1,VTI1B
HIF1α Signaling	1.54	0.0609	NaN	FGFR3,MMP7,EDN1,MRAS,FGFR2,TCEB1,SLC2A3
D-myo-inositol (1,4,5,6)-Tetrakisphosphate Biosynthesis	1.53	0.0567	NaN	SOCS3,PPP1CC,PTPRJ,PDXP,DUSP1,PPP1R8,PPP4R1,SIRPA

D-myo-inositol (3,4,5,6)-tetrakisphosphate Biosynthesis	1.53	0.0567	NaN	SOCS3,PPP1CC,PTPRJ,PDXP,DUSP1,PPP1R8,PPP4R1,SIRPA
Role of Oct4 in Mammalian Embryonic Stem Cell Pluripotency	1.52	0.087	NaN	FAM208A,PPP1R8,NR2F2,PARP1
Purine Nucleotides De Novo Biosynthesis II	1.51	0.182	NaN	ADSSL1,IMPDH1
p38 MAPK Signaling	1.51	0.0598	0.378	IL1R2,TGFBR1,DUSP1,TGFB2,MAP3K5,STAT1,CREB5
ErbB2-ErbB3 Signaling	1.49	0.0725	1.342	FGFR3,MRAS,FGFR2,GSK3B,CCND1
Fcγ Receptor-mediated Phagocytosis in Macrophages and Monocytes	1.49	0.0645	0.816	MYO5A,ACTA2,CDC42,VAV3,PRKCH,PRKCA
mTOR Signaling	1.48	0.0503	-0.333	ATG13,FGFR3,MAPKAP1,PRKAB2,DDIT4,RPS23,MRAS,FGFR2,PRKCH,PRKCA
Melatonin Signaling	1.45	0.0704	-0.447	PRKAR2B,GNAI1,PRKACA,PRKCH,PRKCA
Chemokine Signaling	1.45	0.0704	0.447	MPRIP,CCL2,MRAS,GNAI1,PRKCA
Role of MAPK Signaling in the Pathogenesis of Influenza	1.43	0.0694	NaN	CASP3,CCL2,MRAS,MAP3K5,PRKCA
ErbB4 Signaling	1.43	0.0694	-0.447	FGFR3,MRAS,FGFR2,PRKCH,PRKCA
RhoA Signaling	1.42	0.0574	2	PLXNA1,NEDD4,MPRIP,ABL2,NRP2,ACTA2,ARHGAP35
Sonic Hedgehog Signaling	1.39	0.1	NaN	PRKAR2B,PRKACA,GSK3B
Guanosine Nucleotides Degradation III	1.37	0.154	NaN	NT5E,AOX1
TREM1 Signaling	1.36	0.0667	2.236	CXCL8,CXCL3,NLRP3,CCL2,IL6
IL-15 Signaling	1.34	0.0658	NaN	FGFR3,CXCL8,MRAS,FGFR2,IL6
3-phosphoinositide Degradation	1.33	0.0516	NaN	SOCS3,PPP1CC,PTPRJ,PDXP,DUSP1,PPP1R8,PPP4R1,SIRPA
G-Protein Coupled Receptor Signaling	1.31	0.0441	NaN	FGFR3,PRKAR2B,DUSP1,MRAS,GNAI1,PRKACA,RGS4,FGFR2,CREB5,PTGER4,PRKCA,FPR1
Role of NFAT in Regulation of the Immune Response	1.3	0.0486	-1.342	FGFR3,GNG4,MRAS,GNAI1,FGFR2,ITPR1,GSK3B,GNG5,GNG12
Cyclins and Cell Cycle Regulation	1.3	0.0641	0.447	CCNA1,TGFB2,CDKN2C,GSK3B,CCND1
14-3-3-mediated Signaling	1.3	0.0538	NaN	FGFR3,MRAS,FGFR2,PRKCH,MAP3K5,GSK3B,PRKCA
L-DOPA Degradation	1.3	0.5	NaN	LRTOMT
Alanine Degradation III	1.3	0.5	NaN	GPT2
Alanine Biosynthesis II	1.3	0.5	NaN	GPT2
Sulfate Activation for Sulfonation	1.3	0.5	NaN	PAPSS2
Formaldehyde Oxidation II (Glutathione-dependent)	1.3	0.5	NaN	ADH5
Glycine Biosynthesis I	1.3	0.5	NaN	SHMT1
Glutamine Degradation I	1.3	0.5	NaN	GLS
p70S6K Signaling	1.28	0.0534	-1.134	FGFR3,F2R,MRAS,GNAI1,FGFR2,PRKCH,PRKCA
Melanoma Signaling	1.28	0.0727	NaN	FGFR3,MRAS,FGFR2,CCND1
Regulation of IL-2 Expression in Activated and Anergic T Lymphocytes	1.28	0.0633	NaN	SMAD2,TGFBR1,VAV3,MRAS,TGFB2
Endothelin-1 Signaling	1.28	0.0481	-0.333	FGFR3,CASP3,EDN1,MRAS,GNAI1,FGFR2,PRKCH,ITPR1,PRKCA
D-myo-inositol-5-phosphate Metabolism	1.28	0.0503	NaN	SOCS3,PPP1CC,PTPRJ,PDXP,DUSP1,PPP1R8,PPP4R1,SIRPA

Signaling by Rho Family GTPases	1.26	0.0445	-1.134	FGFR3,GNG4,NEDD4,ACTA2,CDC42,MRAS,GNAI1,FGFR2,ARHGEF3,GNG5,GNG12
NAD biosynthesis II (from tryptophan)	1.26	0.133	NaN	QPRT,KYNU
Agranulocyte Adhesion and Diapedesis	1.26	0.0476	NaN	CXCL8,CXCL3,MMP7,CCL2,ACTA2,GNAI1,CCL20,CLDN2,CXCL2
Inhibition of Angiogenesis by TSP1	1.25	0.0882	NaN	TGFBR1,SDC1,CASP3
Role of JAK2 in Hormone-like Cytokine Signaling	1.25	0.0882	NaN	SOCS3,STAT1,SIRPA
Adipogenesis pathway	1.24	0.0522	NaN	FGFR3,KAT2B,FGF2,NR2F2,FGFR2,FGF1,GTF2H3
Regulation of Cellular Mechanics by Calpain Protease	1.23	0.0702	0	CCNA1,MRAS,CAST,CCND1
IL-17A Signaling in Fibroblasts	1.22	0.0857	NaN	CCL2,IL6,GSK3B
Production of Nitric Oxide and Reactive Oxygen Species in Macrophages	1.21	0.0466	-0.333	FGFR3,PPP1CC,FGFR2,PRKCH,MAP3K5,STAT1,SIRPA,PRKCA,MAP3K2
MSP-RON Signaling Pathway	1.19	0.0678	NaN	FGFR3,CCL2,ACTA2,FGFR2
Telomerase Signaling	1.18	0.0541	-1.342	FGFR3,ETS1,ELF3,MRAS,FGFR2,PTGES3
Leptin Signaling in Obesity	1.17	0.0588	NaN	FGFR3,SOCS3,PRKAR2B,PRKACA,FGFR2
Xenobiotic Metabolism Signaling	1.17	0.0418	NaN	FGFR3,UST,HS2ST1,MRAS,FGFR2,PRKCH,MAP3K5,IL6,RXRA,PTGES3,PRKCA,MAP3K2
Ephrin A Signaling	1.17	0.0667	NaN	FGFR3,CDC42,VAV3,FGFR2
Adenosine Nucleotides Degradation II	1.16	0.118	NaN	NT5E,AOX1
NF-κB Activation by Viruses	1.15	0.0581	0.447	FGFR3,MRAS,FGFR2,PRKCH,PRKCA
Paxillin Signaling	1.15	0.0531	-1.342	FGFR3,ACTA2,CDC42,MRAS,FGFR2,ITGB6
TGF-β Signaling	1.14	0.0575	-0.447	SMAD2,TGFBR1,CDC42,MRAS,TGFB2
Superpathway of Inositol Phosphate Compounds	1.13	0.0435	NaN	FGFR3,SOCS3,PPP1CC,PTPRJ,PDXP,DUSP1,PPP1R8,FGFR2,PPP4R1,SIRPA
Hereditary Breast Cancer Signaling	1.13	0.0493	NaN	PBRM1,FGFR3,GADD45A,MRAS,FGFR2,CCND1,PHF10
Coenzyme A Biosynthesis	1.12	0.333	NaN	COASY
Differential Regulation of Cytokine Production in Macrophages and T Helper Cells by IL-17A and IL-17F	1.12	0.111	NaN	CCL2,IL6
Role of Osteoblasts, Osteoclasts and Chondrocytes in Rheumatoid Arthritis	1.11	0.0431	NaN	IL1R2,FGFR3,SFRP4,FGFR2,MAP3K5,IL6,GSK3B,TCF3,CTNNB1,TCF7L2
CNTF Signaling	1.11	0.0635	-2	FGFR3,MRAS,FGFR2,STAT1
ERK5 Signaling	1.11	0.0635	1	SGK1,MRAS,CREB5,MAP3K2
IL-12 Signaling and Production in Macrophages	1.08	0.0479	NaN	FGFR3,TGFB2,FGFR2,PRKCH,STAT1,RXRA,PRKCA
GADD45 Signaling	1.07	0.105	NaN	GADD45A,CCND1
Pyridoxal 5'-phosphate Salvage Pathway	1.07	0.0615	NaN	DAPK1,PIM1,SGK1,PRKCH
Phospholipase C Signaling	1.07	0.0422	0.816	GNG4,MPRIP,MRAS,PRKCH,ARHGEF3,ITPR1,CREB5,GNG5,GNG12,PRKCA
Fc Epsilon RI Signaling	1.06	0.0504	NaN	FGFR3,VAV3,MRAS,FGFR2,PRKCH,PRKCA
Reelin Signaling in Neurons	1.06	0.0543	NaN	FGFR3,CRKL,FGFR2,ARHGEF3,GSK3B
Death Receptor Signaling	1.06	0.0543	-0.447	CASP3,ACTA2,MAP3K5,ARHGDIB,PARP1
UVB-Induced MAPK Signaling	1.05	0.0606	0	FGFR3,FGFR2,PRKCH,PRKCA
Ceramide Signaling	1.04	0.0538	0	FGFR3,MRAS,FGFR2,SMPD1,CERK

LXR/RXR Activation	1.04	0.0496	-2.236	IL1R2,SCD,CCL2,SAA2,IL6,RXRA
Natural Killer Cell Signaling	1.03	0.0492	NaN	FGFR3,VAV3,MRAS,FGFR2,PRKCH,PRKCA
Salvage Pathways of Pyrimidine Ribonucleotides	1.01	0.0526	NaN	DAPK1,PIM1,SGK1,PRKCH,CDA
Role of Hypercytokinemia/hyperchemokinemia in the Pathogenesis of Influenza	1.01	0.0698	NaN	CXCL8,CCL2,IL6
Uracil Degradation II (Reductive)	1.01	0.25	NaN	DPYD
Methylmalonyl Pathway	1.01	0.25	NaN	MUT
Thymine Degradation	1.01	0.25	NaN	DPYD
Glycerol-3-phosphate Shuttle	1.01	0.25	NaN	GPD2
PI3K/AKT Signaling	1	0.0484	-0.447	GDF15,MRAS,MAP3K5,GSK3B,CTNNB1,CCND1
Endoplasmic Reticulum Stress Pathway	0.999	0.0952	NaN	CASP3,MAP3K5
Inflammasome pathway	0.999	0.0952	NaN	CXCL8,NLRP3
Sperm Motility	0.988	0.048	0	PRKAR2B,MRAS,PRKACA,PRKCH,ITPR1,PRKCA
Th1 and Th2 Activation Pathway	0.981	0.0432	NaN	FGFR3,SOCS3,TGFBR1,FGFR2,CD274,IL6,STAT1,IL24
Myc Mediated Apoptosis Signaling	0.978	0.0571	NaN	FGFR3,CASP3,MRAS,FGFR2
Caveolar-mediated Endocytosis Signaling	0.961	0.0563	NaN	ACTA2,ITGB6,PRKCA,MAP3K2
FAK Signaling	0.954	0.0505	NaN	FGFR3,ACTA2,ASAP1,MRAS,FGFR2
Basal Cell Carcinoma Signaling	0.945	0.0556	-1	GSK3B,TCF3,CTNNB1,TCF7L2
GPCR-Mediated Integration of Enteroendocrine Signaling Exemplified by an L Cell	0.945	0.0556	NaN	PRKAR2B,GNAI1,PRKACA,ITPR1
Triacylglycerol Biosynthesis	0.944	0.0652	NaN	AGPAT5,PLPP3,LPGAT1
EIF2 Signaling	0.933	0.0407	-1.89	FGFR3,RPL14,PPP1CC,ACTA2,RPS23,MRAS,FGFR2,GSK3B,CCND1
Heparan Sulfate Biosynthesis (Late Stages)	0.929	0.0548	NaN	EXT2,UST,HS2ST1,EXTL3
PAK Signaling	0.927	0.0495	-2.236	FGFR3,CASP3,CDC42,MRAS,FGFR2
Hematopoiesis from Pluripotent Stem Cells	0.923	0.0638	NaN	KITLG,CXCL8,IL6
cAMP-mediated signaling	0.916	0.0404	0	AKAP12,PRKAR2B,DUSP1,GNAI1,PRKACA,RGS4,CREB5,PTGER4,FPR1
Serine Biosynthesis	0.914	0.2	NaN	PSPH
Myo-inositol Biosynthesis	0.914	0.2	NaN	IMPA2
2-oxobutanoate Degradation I	0.914	0.2	NaN	MUT
dTMP De Novo Biosynthesis	0.914	0.2	NaN	SHMT1
Folate Polyglutamylation	0.914	0.2	NaN	SHMT1
PKCθ Signaling in T Lymphocytes	0.905	0.0455	-1.633	FGFR3,VAV3,MRAS,FGFR2,MAP3K5,MAP3K2
IL-22 Signaling	0.902	0.0833	NaN	SOCS3,STAT1
Tumoricidal Function of Hepatic Natural Killer Cells	0.902	0.0833	NaN	SERPINB9,CASP3
Role of JAK1, JAK2 and TYK2 in Interferon Signaling	0.902	0.0833	NaN	STAT2,STAT1

Estrogen-mediated S-phase Entry	0.902	0.0833	NaN	CCNA1,CCND1
CDP-diacylglycerol Biosynthesis I	0.902	0.0833	NaN	AGPAT5,LPGAT1
Tryptophan Degradation III (Eukaryotic)	0.902	0.0833	NaN	L3HYPDH,KYNU
VEGF Signaling	0.901	0.0485	-1.342	FGFR3,ACTA2,MRAS,FGFR2,PRKCA
Cell Cycle: G2/M DNA Damage Checkpoint Regulation	0.884	0.0612	NaN	KAT2B,GADD45A,TOP2A
Role of Wnt/GSK-3β Signaling in the Pathogenesis of Influenza	0.882	0.0526	NaN	GSK3B,TCF3,CTNNB1,TCF7L2
IL-17A Signaling in Gastric Cells	0.873	0.08	NaN	CXCL8,CCL20
Th1 Pathway	0.872	0.0444	-1.342	FGFR3,SOCS3,FGFR2,CD274,IL6,STAT1
Angiopoietin Signaling	0.867	0.0519	NaN	FGFR3,MRAS,FGFR2,BIRC5
Phosphatidylglycerol Biosynthesis II (Non-plastidic)	0.845	0.0769	NaN	AGPAT5,LPGAT1
Pentose Phosphate Pathway (Non-oxidative Branch)	0.84	0.167	NaN	TKT
Glycerol Degradation I	0.84	0.167	NaN	GPD2
Acute Phase Response Signaling	0.838	0.0414	0	SOCS3,MRAS,OSMR,MAP3K5,SAA2,IL6,TCF3
CD27 Signaling in Lymphocytes	0.828	0.0577	NaN	CASP3,MAP3K5,MAP3K2
ATM Signaling	0.824	0.05	NaN	SMC2,GADD45A,CREB5,SMC1A
IL-15 Production	0.819	0.0741	NaN	IL6,STAT1
Heparan Sulfate Biosynthesis	0.811	0.0494	NaN	EXT2,UST,HS2ST1,EXTL3
FcγRIIB Signaling in B Lymphocytes	0.811	0.0566	NaN	FGFR3,MRAS,FGFR2
Role of Cytokines in Mediating Communication between Immune Cells	0.794	0.0556	NaN	CXCL8,IL6,IL24
NAD Biosynthesis from 2-amino-3-carboxymuconate Semialdehyde	0.779	0.143	NaN	QPRT
Acetyl-CoA Biosynthesis I (Pyruvate Dehydrogenase Complex)	0.779	0.143	NaN	PDHA1
Small Cell Lung Cancer Signaling	0.771	0.0476	NaN	FGFR3,FGFR2,RXRA,CCND1
Wnt/Ca+ pathway	0.745	0.0526	NaN	GSK3B,CREB5,PRKCA
Glutamate Receptor Signaling	0.745	0.0526	NaN	HOMER2,GLS,GNG5
Rac Signaling	0.739	0.0427	-2.236	FGFR3,CDC42,MRAS,FGFR2,NCKAP1
Citrulline Biosynthesis	0.726	0.125	NaN	GLS
Superoxide Radicals Degradation	0.726	0.125	NaN	SOD1
Tryptophan Degradation to 2-amino-3-carboxymuconate Semialdehyde	0.726	0.125	NaN	KYNU
Salvage Pathways of Pyrimidine Deoxyribonucleotides	0.726	0.125	NaN	CDA
Sphingomyelin Metabolism	0.726	0.125	NaN	SMPD1
Nur77 Signaling in T Lymphocytes	0.715	0.0508	NaN	CASP3,RXRA,MAP3K2
Role of NANOG in Mammalian	0.689	0.041	-1.342	FGFR3,MRAS,FGFR2,GSK3B,CTNNB1

Embryonic Stem Cell Pluripotency				
Phagosome Formation	0.689	0.041	NaN	FGFR3,FGFR2,PRKCH,FCAMR,PRKCA
Retinoic acid Mediated Apoptosis Signaling	0.686	0.0492	NaN	CASP3,RXRA,PARP1
Assembly of RNA Polymerase I Complex	0.681	0.111	NaN	POLR1D
Prostanoid Biosynthesis	0.681	0.111	NaN	PTGES3
Sphingosine-1-phosphate Signaling	0.68	0.0407	-1.342	FGFR3,CASP3,GNAI1,FGFR2,SMPD1
Activation of IRF by Cytosolic Pattern Recognition Receptors	0.672	0.0484	NaN	STAT2,IL6,STAT1
Pentose Phosphate Pathway	0.64	0.1	NaN	TKT
Glycine Betaine Degradation	0.64	0.1	NaN	SHMT1
Estrogen Receptor Signaling	0.634	0.0391	NaN	KAT2B,MED20,MRAS,HNRNPD,GTF2H3
Sumoylation Pathway	0.633	0.0417	NaN	ETS1,MAP3K5,ISG20,ARHGDIB
Hypoxia Signaling in the Cardiovascular System	0.633	0.0462	NaN	EDN1,UBE2G1,CREB5
Calcium-induced T Lymphocyte Apoptosis	0.62	0.0455	NaN	PRKCH,ITPR1,PRKCA
Cellular Effects of Sildenafil (Viagra)	0.616	0.0385	NaN	MPRIP,PRKAR2B,ACTA2,PRKACA,ITPR1
TR/RXR Activation	0.613	0.0408	NaN	FGFR3,UCP2,FGFR2,RXRA
Lymphotoxin β Receptor Signaling	0.608	0.0448	NaN	FGFR3,CASP3,FGFR2
Dolichyl-diphosphooligosaccharide Biosynthesis	0.604	0.0909	NaN	ALG13
CDK5 Signaling	0.603	0.0404	-1	PPP1CC,PRKAR2B,MRAS,PRKACA
IL-10 Signaling	0.596	0.0441	NaN	IL1R2,SOCS3,IL6
Remodeling of Epithelial Adherens Junctions	0.596	0.0441	NaN	ACTA2,DNM1L,CTNNB1
Cell Cycle Control of Chromosomal Replication	0.594	0.0526	NaN	POLA1,TOP2A
Agrin Interactions at Neuromuscular Junction	0.584	0.0435	NaN	ACTA2,CDC42,MRAS
Cholecystokinin/Gastrin-mediated Signaling	0.584	0.0396	1	MRAS,PRKCH,ITPR1,PRKCA
RANK Signaling in Osteoclasts	0.584	0.0396	-1	FGFR3,FGFR2,MAP3K5,MAP3K2
Netrin Signaling	0.578	0.0513	NaN	PRKAR2B,PRKACA
Inhibition of Matrix Metalloproteases	0.578	0.0513	NaN	MMP7,SDC1
Cleavage and Polyadenylation of Pre-mRNA	0.572	0.0833	NaN	PAPOLA
Hematopoiesis from Multipotent Stem Cells	0.572	0.0833	NaN	KITLG
BER pathway	0.572	0.0833	NaN	PARP1
Role of PKR in Interferon Induction and Antiviral Response	0.562	0.05	NaN	CASP3,STAT1
Neuroprotective Role of THOP1 in Alzheimer's Disease	0.562	0.05	NaN	PRKAR2B,PRKACA

Noradrenaline and Adrenaline Degradation	0.562	0.05	NaN	ADH5,LRTOMT
Oleate Biosynthesis II (Animals)	0.542	0.0769	NaN	SCD
Cholesterol Biosynthesis I	0.542	0.0769	NaN	DHCR7
Bile Acid Biosynthesis, Neutral Pathway	0.542	0.0769	NaN	AMACR
Cholesterol Biosynthesis II (via 24,25-dihydrolanosterol)	0.542	0.0769	NaN	DHCR7
Cholesterol Biosynthesis III (via Desmosterol)	0.542	0.0769	NaN	DHCR7
T Helper Cell Differentiation	0.54	0.0411	NaN	TGFBR1,IL6,STAT1
Role of p14/p19ARF in Tumor Suppression	0.519	0.0465	NaN	FGFR3,FGFR2
DNA Double-Strand Break Repair by Homologous Recombination	0.516	0.0714	NaN	POLA1
DNA Double-Strand Break Repair by Non-Homologous End Joining	0.516	0.0714	NaN	PARP1
Superpathway of Citrulline Metabolism	0.516	0.0714	NaN	GLS
T Cell Receptor Signaling	0.514	0.0367	NaN	FGFR3,VAV3,MRAS,FGFR2
Calcium Signaling	0.513	0.0337	-0.447	RAP2B,PRKAR2B,ACTA2,PRKACA,ITPR1,CREB5
BMP signaling pathway	0.509	0.0395	NaN	PRKAR2B,MRAS,PRKACA
Type I Diabetes Mellitus Signaling	0.505	0.0364	-2	SOCS3,CASP3,MAP3K5,STAT1
Dopamine Receptor Signaling	0.5	0.039	NaN	PPP1CC,PRKAR2B,PRKACA
Amyotrophic Lateral Sclerosis Signaling	0.497	0.036	NaN	FGFR3,CASP3,FGFR2,SOD1
Synaptic Long Term Depression	0.494	0.0342	0.447	MRAS,GNAI1,PRKCH,ITPR1,PRKCA
nNOS Signaling in Skeletal Muscle Cells	0.491	0.0667	NaN	SNTB2
Glutaryl-CoA Degradation	0.491	0.0667	NaN	L3HYPDH
Vitamin-C Transport	0.491	0.0667	NaN	SLC2A3
Methylglyoxal Degradation III	0.468	0.0625	NaN	AKR1B10
Parkinson's Signaling	0.468	0.0625	NaN	CASP3
nNOS Signaling in Neurons	0.468	0.0426	NaN	PRKCH,PRKCA
Dermatan Sulfate Biosynthesis (Late Stages)	0.468	0.0426	NaN	UST,HS2ST1
Th2 Pathway	0.467	0.0333	-0.447	FGFR3,SOCS3,TGFBR1,FGFR2,IL24
Systemic Lupus Erythematosus Signaling	0.448	0.0311	NaN	FGFR3,SNRPB,MRAS,FGFR2,IL6,HNRNPC,PIM2
TNFR1 Signaling	0.445	0.0408	NaN	CASP3,CDC42
Dendritic Cell Maturation	0.442	0.0316	-0.816	FGFR3,FGFR2,STAT2,IL6,STAT1,CREB5
PEDF Signaling	0.437	0.0357	NaN	FGFR3,MRAS,FGFR2
Chondroitin Sulfate Biosynthesis (Late Stages)	0.434	0.04	NaN	UST,HS2ST1
D-myo-inositol (1,4,5)-trisphosphate	0.427	0.0556	NaN	IMPA2

Degradation				
Gustation Pathway	0.405	0.0323	NaN	PRKAR2B,PRKACA,ITPR1,GNG5
Phototransduction Pathway	0.402	0.0377	NaN	PRKAR2B,PRKACA
IL-4 Signaling	0.397	0.0337	NaN	FGFR3,MRAS,FGFR2
Nicotine Degradation III	0.393	0.037	NaN	EXT2,AOX1
Unfolded protein response	0.393	0.037	NaN	EDEM1,MAP3K5
DNA Methylation and Transcriptional Repression Signaling	0.392	0.05	NaN	MECP2
Granzyme A Signaling	0.392	0.05	NaN	HMGB2
Regulation of Actin-based Motility by Rho	0.383	0.033	NaN	MPRIP,ACTA2,CDC42
Actin Nucleation by ARP-WASP Complex	0.374	0.0357	NaN	CDC42,MRAS
PPAR Signaling	0.368	0.0323	NaN	IL1R2,MRAS,RXRA
CD28 Signaling in T Helper Cells	0.362	0.0305	-1	FGFR3,CDC42,FGFR2,ITPR1
Polyamine Regulation in Colon Cancer	0.361	0.0455	NaN	CTNNB1
Mitochondrial Dysfunction	0.349	0.0292	NaN	PDHA1,UCP2,CASP3,GPD2,BACE1
Chondroitin Sulfate Biosynthesis	0.348	0.0339	NaN	UST,HS2ST1
Differential Regulation of Cytokine Production in Intestinal Epithelial Cells by IL-17A and IL-17F	0.347	0.0435	NaN	CCL2
Pyrimidine Deoxyribonucleotides De Novo Biosynthesis I	0.347	0.0435	NaN	DUT
Induction of Apoptosis by HIV1	0.339	0.0333	NaN	CASP3,MAP3K5
autophagy	0.339	0.0333	NaN	ATG13,MAP1LC3B
Dermatan Sulfate Biosynthesis	0.331	0.0328	NaN	UST,HS2ST1
Superpathway of D-myo-inositol (1,4,5)-trisphosphate Metabolism	0.321	0.04	NaN	IMPA2
Nicotine Degradation II	0.316	0.0317	NaN	EXT2,AOX1
NAD Salvage Pathway II	0.309	0.0385	NaN	NT5E
Mitotic Roles of Polo-Like Kinase	0.294	0.0303	NaN	ANAPC13,SMC1A
Superpathway of Cholesterol Biosynthesis	0.286	0.0357	NaN	DHCR7
4-1BB Signaling in T Lymphocytes	0.257	0.0323	NaN	MAP3K5
Cytotoxic T Lymphocyte-mediated Apoptosis of Target Cells	0.248	0.0312	NaN	CASP3
Superpathway of Methionine Degradation	0.248	0.0312	NaN	MUT
Serotonin Degradation	0.244	0.027	NaN	ADH5,EXT2
Circadian Rhythm Signaling	0.239	0.0303	NaN	CREB5
TWEAK Signaling	0.231	0.0294	NaN	CASP3
Retinoate Biosynthesis I	0.231	0.0294	NaN	AKR1B10
Cell Cycle Regulation by BTG Family Proteins	0.224	0.0286	NaN	CCND1

B Cell Development	0.224	0.0286	NaN	IL7R
Dopamine Degradation	0.224	0.0286	NaN	LRTOMT
Nucleotide Excision Repair Pathway	0.224	0.0286	NaN	GTF2H3
Ethanol Degradation II	0.209	0.027	NaN	ADH5
Complement System	0.209	0.027	NaN	C3AR1
Antigen Presentation Pathway	0.202	0.0263	NaN	PSMB6