

term ID	term description	observed gene count	background gene count	strength	false discovery rate	matching proteins in your network	matching proteins in your network (labels)
CL:3641	IκBα variant leads to EDA-ID	4	5	2.13	2.69E-06	9606. ENSP00002167 97. 9606. E NSP000003 84273. 960 6. ENSP0000398698, 9606. ENSP00040306 84	NFKB1A, RELA, TNF, IKBKB
CL:206	Glial cell line-derived neurotrophic factor receptor, alpha 1/2, and Hirschsprung disease	3	5	2.01	0.00012	9606. ENSP00003475 91. 9606. E NSP000003 47942. 960 6. ENSP000004285318 9606. ENSP000002636 42. 9606. E NSP000000471896	GFR1, RET, GFR2
CL:5981	type II transforming growth factor beta receptor binding	3	5	2.01	0.00012	NSP000003 519003, 6. ENSP0000034133 9606. ENSP000033589 97. 9606. E	TGFB1, TGFB2, TGFB1
CL:3711	mixed, incl. interleukin-1 receptor complex, and IRAK4 deficiency (TLK5)	3	7	1.86	0.00022	NSP000003 86003. 960 6. ENSP000000401399 9606. ENSP00002629 59. 9606. E NSP0000027022	IRAK1, IL1R1, MYD88
CL:23432	mixed, incl. Fibroblast growth factor 21, and PR domain zinc finger protein 16	2	5	1.83	0.0036	9606. ENSP00002629 59. 9606. E NSP0000027022	UCP1, PRDM16
CL:263	mixed, incl. Stem cell factor, and Mast/stem cell growth factor receptor	2	5	1.83	0.0036	9606. ENSP00002282 80. 9606. E NSP0000038135 9606. ENSP000002636 42. 9606. E NSP000000471896	KITLG, KIT
CL:3758	Caspase recruitment domain, and negative regulation of interferon-beta biosynthetic process	2	5	1.83	0.0036	9606. ENSP000002636 42. 9606. E NSP000000471896	IFIH1, IRF3
CL:7575	Orexin receptor family, and Prepro-orexin	2	5	1.83	0.0036	9606. ENSP000002636 42. 9606. E NSP000000471896	HCR1, HCR1
CL:7866	GPCR, family 2, vasoactive intestinal peptide receptor, and Vasoactive intestinal peptide	2	5	1.83	0.0036	9606. ENSP000002636 42. 9606. E NSP000000471896	TRK1, VIP
CL:8008	Urocortin/corticotropin-releasing factor, and corticotrophin-releasing factor receptor activity	2	5	1.83	0.0036	9606. ENSP000002636 42. 9606. E NSP000000471896	CRHR2, CRHR1
CL:3710	IRAK4 deficiency (TLR2/4), and interleukin-1 receptor complex	5	13	1.82	1.05E-06	9606. ENSP000002636 42. 9606. E NSP000000471896	TLR2, IRAK1, TLR4, IL1R1, MYD88
CL:5967	mixed, incl. SMAD2/3 Phosphorylation Motif Mutants in Cancer, and transforming growth factor beta receptor, inhibitory cytoplasmic mediator activity	4	12	1.75	2.71E-05	9606. ENSP000002636 42. 9606. E NSP000000471896	TGFB1, SMAD3, TGFB2, TGFB1
CL:3724	MyD88 deficiency (TLR2/4)	2	6	1.75	0.0042	9606. ENSP000002600 10. 9606. E NSP000003	TLR2, TLR4
CL:3998	PI3K Activates STAT3, and Ig-like C2-type domain	2	6	1.75	0.0042	9606. ENSP000002646 57. 9606. E NSP000003	STAT3, LEP
CL:25184	Passive transport by Aquaporins	3	10	1.71	0.00046	9606. ENSP000002196 60. 9606. E NSP000002	AQP8, AQP3, AQP1
CL:3982	mixed, incl. Signaling by Leptin, and Erythropoietin activates Phospholipase C gamma (PLCγ)	4	14	1.69	4.18E-05	9606. ENSP000002636 42. 9606. E NSP000000471896	PLCG1, STAT3, LEP, JAK2
CL:3637	mixed, incl. IκBα variant leads to EDA-ID, and death-inducing signaling complex assembly	6	22	1.67	3.23E-07	9606. ENSP000002636 42. 9606. E NSP000000471896	TNFRSF1A, NFKB1A, TNFRSF1B, RELA, TNF, IKBKB
CL:3707	MyD88-dependent toll-like receptor signaling pathway, and Interleukin-1 conserved site	6	22	1.67	3.23E-07	9606. ENSP000002636 42. 9606. E NSP000000471896	TLR2, IL1B, TRAF1, TLR4, IL1R1, MYD88
CL:3636	TAK1 activates NfκB by phosphorylation and activation of IKKs complex, and death-inducing signaling complex assembly	8	33	1.62	2.79E-09	9606. ENSP000002636 42. 9606. E NSP000000471896	TNFRSF1A, NFKB1A, NOD2, TNFRSF1B, RELA, TNF, IKBKB, TRAF6
CL:3634	interleukin-1-mediated signaling pathway, and TIR domain	14	60	1.6	4.13E-16	9606. ENSP000002636 42. 9606. E NSP000000471896	TNFRSF1A, NFKB1A, TLR2, IL1B, IFIH1, NOD2, IRAK1, IL1R1, TNF, MYD88, IKBKB, TRAF6
CL:3955	mixed, incl. positive regulation of T-helper 17 cell lineage commitment, and Interleukins 4 and 13	3	13	1.59	0.00075	9606. ENSP000002636 42. 9606. E NSP000000471896	IL23A, IL4R, IL12RB1
CL:3633	I-κappaB kinase/NF-κappaB-mediated signaling pathway	17	77	1.57	1.63E-18	9606. ENSP000002636 42. 9606. E NSP000000471896	TNFRSF1A, NFKB1A, TICAM1, TLR2, IL1B, IFIH1, NOD2, IRAK1, IL1R1, TNF, MYD88, IKBKB, TRAF6, IRF3
CL:8121	mixed, incl. Catecholamine signaling, and dopamine catabolic process	3	16	1.5	0.0012	9606. ENSP000002617 49. 9606. E NSP000002	SLC6A4, HTR1A, DRD2
CL:10369	mixed, incl. neutrophil mediated killing of bacterium, and Pancreatic ribonuclease	2	11	1.49	0.0104	9606. ENSP000002215 15. 9606. E NSP000002	RETN, MPO
CL:2560	protein kinase C activity, and osmosensor activity	2	11	1.49	0.0104	9606. ENSP000002636 42. 9606. E NSP000000471896	PRKCB, TRPV4
CL:3680	activated TAK1 mediates p38 MAPK activation	2	11	1.49	0.0104	9606. ENSP000002636 42. 9606. E NSP000000471896	NOD2, TRAF6
CL:620	mixed, incl. Neural cell adhesion, and Prion protein	2	11	1.49	0.0104	9606. ENSP000002636 42. 9606. E NSP000000471896	AIF1, GFAP
CL:9309	ATP P2X receptor, and Innexin	2	11	1.49	0.0104	9606. ENSP000002636 42. 9606. E NSP000000471896	P2RX3, P2RX7
CL:3753	TRAF3-dependent IRF activation pathway, and TBD domain	3	17	1.48	0.0013	9606. ENSP000002636 42. 9606. E NSP000000471896	TICAM1, IFIH1, IRF3
CL:7845	Calcitonin-like ligand receptors, and vasoactive intestinal polypeptide receptor activity	3	19	1.43	0.0017	9606. ENSP000002636 42. 9606. E NSP000000471896	VIPR1, CALCA, VIP
CL:144	RET signaling, and neurotrophin signaling pathway	6	41	1.4	5.47E-06	9606. ENSP000002636 42. 9606. E NSP000000471896	NTRK2, GFR1, RET, NGF, BDNF, GFR2
CL:7153	mixed, incl. Opioid receptor, and Opioid peptide	2	14	1.39	0.0149	9606. ENSP000002636 42. 9606. E NSP000000471896	PNOC, PDYN
CL:3627	NF-κappa B signaling pathway, and Inflammatory response	18	128	1.38	3.62E-17	9606. ENSP000002636 42. 9606. E NSP000000471896	TNFRSF1A, NFKB1A, TICAM1, TLR2, IL1B, IFIH1, IL18RAP, NOD2, IRAK1, TLR4, TNFRSF1B, RELA, IL1R1, TNF, MYD88, IKBKB, TRAF6
CL:7541	mixed, incl. Orexin and neuropeptides PF and GRP bind to their respective receptors, and Tachykinin receptors bind tachykinins	3	22	1.37	0.0024	9606. ENSP000002636 42. 9606. E NSP000000471896	HCR1, TAC1, HCR1
CL:3908	Jak-STAT signaling pathway	8	62	1.34	2.19E-07	9606. ENSP000002636 42. 9606. E NSP000000471896	IL2RB, IL23A, PLCG1, STAT3, LEP, JAK2, IL4R, IL12RB1
CL:142	mixed, incl. RET signaling, and ERBB2 Regulates Cell Motility	8	67	1.31	3.23E-07	9606. ENSP000002636 42. 9606. E NSP000000471896	KITLG, NTRK2, KIT, GFR1, RET, NGF, BDNF, GFR2
CL:7228	mixed, incl. Somatostatin receptor family, and Pancreatic hormone-like	2	17	1.3	0.0207	9606. ENSP000002636 42. 9606. E NSP000000471896	SST, NPY
CL:7843	Calcitonin-like ligand receptors, and Glucagon-type ligand receptors	4	35	1.29	0.00061	9606. ENSP000002636 42. 9606. E NSP000000471896	VIPR1, CALCA, VIP, POMC
CL:3909	Interleukin-2 family signaling, and positive regulation of T-helper 17 cell lineage commitment	4	36	1.28	0.00065	9606. ENSP000002636 42. 9606. E NSP000000471896	IL2RB, IL23A, IL4R, IL12RB1
CL:3907	Jak-STAT signaling pathway	11	102	1.26	2.22E-09	9606. ENSP000002636 42. 9606. E NSP000000471896	IL2RB, IL10RA, IL23A, IFNG, PLCG1, STAT3, LEP, IFNB1, JAK2, IL4R, IL12RB1
CL:145	neurotrophin signaling pathway, and insulin receptor binding	3	29	1.25	0.004	9606. ENSP000002636 42. 9606. E NSP000000471896	NTRK2, NGF, BDNF
CL:3906	Jak-STAT signaling pathway	12	122	1.22	9.08E-10	9606. ENSP000002636 42. 9606. E NSP000000471896	IL2RB, IL10RA, IL23A, IFNG, PLCG1, STAT3, LEP, IL6R, IFNB1, JAK2, IL4R, IL12RB1
CL:7540	neuropeptide receptor activity, and Amidation	4	42	1.21	0.001	9606. ENSP000002636 42. 9606. E NSP000000471896	HCR1, TAC1, GAST, HCR1
CL:7838	adenylate cyclase-activating G protein-coupled receptor signaling pathway, and Glucagon-type ligand receptors	6	64	1.2	4.28E-05	9606. ENSP000002636 42. 9606. E NSP000000471896	PTGER2, VIPR1, CALCA, HTR4, VIP, POMC
CL:7149	adenylate cyclase-inhibiting G protein-coupled receptor signaling pathway, and Opioid peptide	3	32	1.2	0.0049	9606. ENSP000002636 42. 9606. E NSP000000471896	ADRA2A, PNOC, PDYN
CL:7834	adenylate cyclase-activating G protein-coupled receptor signaling pathway, and Class B/2 (Secretin family receptors)	9	99	1.19	3.23E-07	9606. ENSP000002636 42. 9606. E NSP000000471896	PTGER2, VIPR1, CALCA, CRHR2, HTR4, VIP, CRHR1, POMC
CL:6558	calcium-independent cell-cell adhesion via plasma membrane cell-adhesion molecules	2	22	1.19	0.0311	9606. ENSP000002636 42. 9606. E NSP000000471896	CLDN1, OCLN
CL:7539	G alpha (q) signalling events	6	68	1.18	5.73E-05	9606. ENSP000002636 42. 9606. E NSP000000471896	CHRM3, HCR1, TAC1, GAST, EDNRB, HCR1
CL:7835	adenylate cyclase-activating G protein-coupled receptor signaling pathway, and Class B/2 (Secretin family receptors)	8	93	1.17	2.69E-06	9606. ENSP000002636 42. 9606. E NSP000000471896	PTGER2, VIPR1, CALCA, CRHR2, HTR4, VIP, CRHR1, POMC
CL:7840	adenylate cyclase-activating G protein-coupled receptor signaling pathway, and Glucagon-type ligand receptors	5	58	1.17	0.0003	9606. ENSP000002636 42. 9606. E NSP000000471896	PTGER2, VIPR1, CALCA, VIP, POMC
CL:4032	Regulation of IFNα signaling, and interferon receptor activity	2	23	1.17	0.033	9606. ENSP000002636 42. 9606. E NSP000000471896	IFNG, IFNB1
CL:7146	adenylate cyclase-inhibiting G protein-coupled receptor signaling pathway, and neuropeptide receptor activity	5	62	1.14	0.0004	9606. ENSP000002636 42. 9606. E NSP000000471896	ADRA2A, SST, PNOC, NPY, PDYN
CL:7624	mixed, incl. Vasopressin-like receptors, and vascular smooth muscle contraction	2	25	1.13	0.0376	9606. ENSP000002636 42. 9606. E NSP000000471896	CHRM3, EDNRB
CL:8118	mixed, incl. aromatic amino acid family metabolic process, and Histidine metabolism	4	52	1.12	0.0019	9606. ENSP000002636 42. 9606. E NSP000000471896	TPH1, SLC6A4, HTR1A, DRD2
CL:4031	Regulation of IFNα signaling, and Interleukin-20 family signaling	3	40	1.11	0.0085	9606. ENSP000002636 42. 9606. E NSP000000471896	IL10RA, IFNG, IFNB1
CL:8117	mixed, incl. Histidine, lysine, phenylalanine, tyrosine, proline and tryptophan catabolism, and synaptotransmission, cholinergic	6	89	1.06	0.0002	9606. ENSP000002636 42. 9606. E NSP000000471896	TPH1, SLC6A4, HTR1A, CHAT, HTR3A, DRD2
CL:9221	mixed, incl. TRP channels, and Elevation of cytosolic Ca2+ levels	3	62	0.92	0.0244	9606. ENSP000002636 42. 9606. E NSP000000471896	P2RX3, P2RX7, ENSG00000196689
CL:7139	G alpha (i) signalling events	6	164	0.79	0.0028	9606. ENSP000002636 42. 9606. E NSP000000471896	ADRA2A, SST, PNOC, CXCL8, NPY, PDYN
CL:5698	Wnt signaling pathway, and TGF-beta signaling pathway	6	186	0.74	0.0042	9606. ENSP000002636 42. 9606. E NSP000000471896	TGFB1, AXIN1, WNT1, SMAD3, TGFB2, TGFB1

