

Table S1. Δk_i in each dataset of the top-100 critical genes ranked by *global criticality score*.

EntrezID	Symbol	Gene Name
894	CCND2	cyclin D2
595	CCND1	cyclin D1
931	MS4A1	membrane-spanning 4-domains, subfamily A, member 1
4332	MNDA	myeloid cell nuclear differentiation antigen
199	AIF1	allograft inflammatory factor 1
6320	CLEC11A	C-type lectin domain family 11, member A
6768	ST14	suppression of tumorigenicity 14 (colon carcinoma)
23162	MAPK8IP3	mitogen-activated protein kinase 8 interacting protein 3
23302	WSCD1	WSC domain containing 1
4920	ROR2	receptor tyrosine kinase-like orphan receptor 2
23046	KIF21B	kinesin family member 21B
7468	WHSC1	Wolf-Hirschhorn syndrome candidate 1
861	RUNX1	runt-related transcription factor 1
4000	LMNA	lamin A/C
5336	PLCG2	phospholipase C, gamma 2 (phosphatidylinositol-specific)
2208	FCER2	Fc fragment of IgE, low affinity II, receptor for (CD23)
5031	P2RY6	pyrimidinergic receptor P2Y, G-protein coupled, 6
56548	CHST7	carbohydrate (N-acetylglucosamine 6-O) sulfotransferase 7
945	CD33	CD33 molecule
2261	FGFR3	fibroblast growth factor receptor 3
7398	USP1	ubiquitin specific peptidase 1
4582	MUC1	mucin 1, cell surface associated
23532	PRAME	preferentially expressed antigen in melanoma
7039	TGFA	transforming growth factor, alpha
1000	CDH2	cadherin 2, type 1, N-cadherin (neuronal)
944	TNFSF8	tumor necrosis factor (ligand) superfamily, member 8
3908	LAMA2	laminin, alpha 2
138151	NACC2	NACC family member 2, BEN and BTB (POZ) domain containing
7204	TRIO	triple functional domain (PTPRF interacting)
57493	HEG1	HEG homolog 1 (zebrafish)
4689	NCF4	neutrophil cytosolic factor 4, 40kDa

5799	PTPRN2	protein tyrosine phosphatase, receptor type, N polypeptide 2
3992	FADS1	fatty acid desaturase 1
8857	FCGBP	Fc fragment of IgG binding protein
8550	MAPKAPK5	mitogen-activated protein kinase-activated protein kinase 5
3674	ITGA2B	integrin, alpha 2b (platelet glycoprotein IIb of IIb/IIIa complex, antigen CD41)
7042	TGFB2	transforming growth factor, beta 2
9679	FAM53B	family with sequence similarity 53, member B
81544	GDPD5	glycerophosphodiester phosphodiesterase domain containing 5
10125	RASGRP1	RAS guanyl releasing protein 1 (calcium and DAG-regulated)
221061	FAM171A1	family with sequence similarity 171, member A1
9899	SV2B	synaptic vesicle glycoprotein 2B
8503	PIK3R3	phosphoinositide-3-kinase, regulatory subunit 3 (gamma)
288	ANK3	ankyrin 3, node of Ranvier (ankyrin G)
29760	BLNK	B-cell linker
634	CEACAM1	carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein)
6693	SPN	sialophorin
7837	PXDN	peroxidasin homolog (Drosophila)
3741	KCNA5	potassium voltage-gated channel, shaker-related subfamily, member 5
1627	DBN1	drebrin 1
2878	GPX3	glutathione peroxidase 3 (plasma)
1474	CST6	cystatin E/M
1795	DOCK3	dedicator of cytokinesis 3
2199	FBLN2	fibulin 2
780	DDR1	discoidin domain receptor tyrosine kinase 1
4772	NFATC1	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1
7805	LAPTM5	lysosomal protein transmembrane 5
6850	SYK	spleen tyrosine kinase
51454	GULP1	GULP, engulfment adaptor PTB domain containing 1
930	CD19	CD19 molecule
3902	LAG3	lymphocyte-activation gene 3
10576	CCT2	chaperonin containing TCP1, subunit 2 (beta)
10158	PDZK1IP1	PDZK1 interacting protein 1
7112	TMPO	thymopoietin
2332	FMR1	fragile X mental retardation 1

26872	STEAP1	six transmembrane epithelial antigen of the prostate 1
7434	VIPR2	vasoactive intestinal peptide receptor 2
23022	PALLD	palladin, cytoskeletal associated protein
8439	NSMAF	neutral sphingomyelinase (N-SMase) activation associated factor
192683	SCAMP5	secretory carrier membrane protein 5
4684	NCAM1	neural cell adhesion molecule 1
25865	PRKD2	protein kinase D2
155066	ATP6V0E2	ATPase, H ⁺ transporting V0 subunit e2
7424	VEGFC	vascular endothelial growth factor C
7016	TESK1	testis-specific kinase 1
114876	OSBPL1A	oxysterol binding protein-like 1A
81855	SFXN3	sideroflexin 3
2535	FZD2	frizzled homolog 2 (Drosophila)
55120	FANCL	Fanconi anemia, complementation group L
8502	PKP4	plakophilin 4
4606	MYBPC2	myosin binding protein C, fast type
7704	ZBTB16	zinc finger and BTB domain containing 16
23464	GCAT	glycine C-acetyltransferase
1288	COL4A6	collagen, type IV, alpha 6
678	ZFP36L2	zinc finger protein 36, C3H type-like 2
2317	FLNB	filamin B, beta
56255	TMX4	thioredoxin-related transmembrane protein 4
23654	PLXNB2	plexin B2
717	C2	complement component 2
2811	GP1BA	glycoprotein Ib (platelet), alpha polypeptide
10184	LHFPL2	lipoma HMGIC fusion partner-like 2
5274	SERPINI1	serpin peptidase inhibitor, clade I (neuroserpin), member 1
7127	TNFAIP2	tumor necrosis factor, alpha-induced protein 2
1365	CLDN3	claudin 3
25847	ANAPC13	anaphase promoting complex subunit 13
5865	RAB3B	RAB3B, member RAS oncogene family
101	ADAM8	ADAM metallopeptidase domain 8
4109	MAGEA10	melanoma antigen family A, 10
2161	F12	coagulation factor XII (Hageman factor)

Description	Cytoband
regulation of cyclin-dependent protein kinase activity, G1/S transition of mitotic cell cycle	12p13
cell cycle checkpoint, DNA damage checkpoint, G1/S transition of mitotic cell cycle	11q13
immune response, leukocyte activation	11q12
transcription, defense response	1q22
inflammatory response, actin filament bundle assembly	6p21.3
positive regulation of cell proliferation	19q13.3
proteolysis, regulation of cell proliferation and migration	11q24-q25
MAP-kinase scaffold activity	16p13.3
	17p13.2
MAPKKK cascade, skeletal system development, WNT signaling	9q22
microtubule-based process, microtubule-based movement	1pter-q31.3
chromatin organization, transcription	4p16.3
positive regulation of myeloid leukocyte differentiation, osteoclastogenesis, transcription regulation and hemopoiesis	21q22.3
nuclear envelope organization	1q21.2-q21.3
cell activation during immune response, intracellular signaling pathways, osteoclast development and functioning	16q24.1
positive regulation of leukocyte mediated immunity	19p13.3
G-protein coupled receptor protein signaling pathway	11q13.5
chondroitin sulfate biosynthetic process	Xp11.23
cell adhesion, cell-cell signaling	19q13.3
MAPKKK cascade, skeletal system development	4p16.3
response to DNA damage stimulus	1p31.3
response to nutrient levels, cytokines signaling, NF B activation/pathway	1q21
positive regulation of cell proliferation, negative regulation of signal transduction, negative regulation of apoptosis	22q11.22
regulation of epidermal growth factor receptor activity, regulation of mitosis, epithelial cell proliferation	2p13
blood vessel development, cell adhesion, -catenin signaling	18q11.2
induction of apoptosis, immune response, cell proliferation	9q33
cell adhesion and regulation of cell adhesion	6q22-q23
positive regulation of cell proliferation	9q34.3
protein amino acid phosphorylation, apoptosis	5p15.2
	3q21.2
immune response, oxidation reduction	22q13.1

protein amino acid dephosphorylation, intracellular signaling	7q36
fatty acid biosynthetic process	11q12.2-q13.1
cell adhesion	19q13.1
protein amino acid phosphorylation, MAPK signaling pathway	12q24.12-q24.13
cell adhesion, integrin-mediated signaling pathway	17q21.32
protein import into nucleus, G1-S transition	1q41
cell proliferation	10q26.13
glycerol metabolism	11q13.4-q13.5
intracellular signaling cascade, small GTPase mediated signal transduction	15q14
	10p13
neurotransmitter transport	15q26.1
phosphoinositide 3-kinase regulator activity	1p34.1
cell morphogenesis involved in differentiation, cytoskeleton organization	10q21
cell activation, immune system development, defense response	10q23.2-q23.33
angiogenesis, integrin-mediated signaling pathway	19q13.2
cell morphogenesis, cell adhesion, immune response	16p11.2
response to reactive oxygen species, oxygen and reactive oxygen species metabolic process, response to oxidative stress	2p25
response to hypoxia	12p13
cytoskeleton organization	5q35.3
protection of cells and enzymes from oxidative damage	5q23
ectoderm development	11q13
GTPase binding	3p21.2
positive regulation of cell-substrate adhesion	3p25.1
transmembrane receptor protein tyrosine kinase signaling pathway	6p21.3
G1/S transition of mitotic cell cycle and regulation of transcription	18q23
hematopoiesis and B cell activation	1p34
MAPKKK cascade, regulation of cytokine production, integrin-mediated signaling, immune response	9q22
signal transducer activity and regulation of apoptosis	2q32.3-q33
immune response-activating signal transduction	16p11.2
regulation of T cell activation and NK cell mediated cytotoxicity	12p13.32
unfolded protein binding	12q15
AKT pathway	1p33
regulation of transcription	12q22
regulation of translation	Xq27.3

oxidation reduction	7q21
G-protein coupled receptor protein signaling pathway	7q36.3
cytoskeleton organization	4q32.3
receptor signaling protein activity	8q12-q13
regulation of cytokine secretion	15q24.2
regulation of calcium-mediated signaling	11q23.1
intracellular signaling pathway and regulation of apoptosis	19q13.3
ATPase activity, coupled to transmembrane movement of ions	7q36.1
angiogenesis	4q34.1-q34.3
protein amino acid phosphorylation	9p13
steroid metabolic process	18q11.1
regulation of transcription, regulation of mesenchymal cell proliferation	10q24.31
Wnt receptor signaling pathway, G-protein coupled receptor protein signaling pathway, calcium modulating pathway	17q21.1
response to DNA damage stimulus	2p16.1
cell adhesion	2q23-q31
cell adhesion and striated muscle contraction	19q13.33
negative regulation of transcription	11q23.1
biosynthetic processes	22q13.1
cell adhesion, extracellular structure organization	Xq22
regulation of mRNA stability	2p22.3-p21
cytoskeleton organization	3p14.3
reductase activity	20p12
positive regulation of axonogenesis	22q13.33
immune response, complement activation	6p21.3
platelet activation,regulation of fibrinolysis and blood coagulation	17pter-p12
	5q14.1
peripheral nervous system development, regulation of cell adhesion	3q26.1
angiogenesis and cell differentiation	14q32
calcium-independent cell-cell adhesion	7q11.23
mitosis regulation	3q22.2
small GTPase mediated signal transduction	1p32-p31
metalloendopeptidase, integrin-mediated signaling pathway	10q26.3
cancer/testis antigen	Xq28
regulation of fibrinolysis and blood coagulation	5q33-qter

GSE755	GSE2658	GSE6477	GSE9782	GSE13591	GSE15695	GSE19784	GCS	#fn	%TN
0.0743	0.0392	0.0266	-0.0028	0.0594	0.1592	0.0635	0.051343352	14	6.36
0.0608	-0.0109	0.0731	-0.0056	0.0868	0.0241	0.0799	0.048602729	4	2.15
0.0878	0.0355	0.3056	0.0103	0.0776	0.0113	0.0061	0.044439795	1	0.72
-0.0203	0.1430	-0.0199	-0.0009	0.0548	0.0836	0.1127	0.04133379	3	3.53
0.0405	0.0073	0.0897	0.0971	0.0320	0.0322	0.0143	0.036252006	14	5.58
0.0676	-0.0018	-0.0100	-0.0056	-0.0046	0.0836	0.1619	0.031500679	1	0.78
0.0878	-0.0128	0.0698	0.0289	0.0365	0.0096	0.0225	0.029535332	7	6.25
0.0068	-0.0009	0.1728	0.0028	0.0091	0.0514	0.1086	0.029101851	0	0.00
0.0473	-0.0046	0.0332	0.0019	0.0868	0.0354	0.0225	0.02895538	2	1.74
0.0135	-0.0027	0.0133	-0.0009	0.0411	0.0531	0.0615	0.027192464	0	0.00
0.0135	0.0464	0.0000	0.1074	0.0091	0.0129	0.0410	0.026922672	5	3.73
0.0270	0.0027	0.0033	0.0000	0.0822	0.0498	0.1783	0.026580744	5	3.27
-0.0068	-0.0036	0.2691	0.0121	0.0183	0.0370	0.1414	0.024557841	0	0.00
0.0541	-0.0046	0.0631	-0.0065	0.0137	-0.0048	0.0471	0.021288707	2	1.69
0.0338	-0.0064	0.0199	0.0233	0.0457	0.0016	0.0184	0.020892647	2	1.55
0.0270	0.0191	0.0233	0.0131	0.0183	0.0547	-0.0041	0.020760327	2	2.15
0.0743	-0.0046	0.0100	0.0019	0.0639	0.0305	0.0123	0.020256701	0	0.00
0.0203	-0.0046	0.0199	0.0327	-0.0046	0.0209	0.0184	0.019356447	1	0.95
0.0203	0.0100	0.0033	0.0177	0.0183	0.0354	0.0328	0.01900535	1	1.52
0.0135	0.0237	0.0000	0.0000	0.0365	0.0595	0.0164	0.018596466	2	1.75
0.0946	0.0000	0.0066	-0.0084	0.3607	0.0064	0.0307	0.018584287	2	0.98
0.1216	0.0064	0.0166	0.0224	0.0457	0.0048	0.0123	0.017352023	2	1.52
0.0405	-0.0027	0.0233	0.0093	0.0137	0.0032	0.0676	0.016296441	0	0.00
0.0473	-0.0036	0.0100	0.0084	0.0457	0.0241	0.0061	0.016259559	0	0.00
0.0270	-0.0055	0.0166	0.0065	0.0228	0.0096	0.0348	0.016238676	1	1.04
0.0135	0.0191	0.0133	0.0009	0.0228	0.0016	0.0451	0.01620736	0	0.00
0.0270	0.0091	0.0233	0.0009	0.0320	0.0064	0.0102	0.016181641	0	0.00
0.0405	-0.0046	0.0000	-0.0037	0.0320	0.0032	0.0369	0.015981735	0	0.00
0.0270	-0.0018	0.0432	-0.0037	0.0183	0.0048	0.0389	0.015925089	1	1.08
0.0270	-0.0018	0.0233	0.0215	0.0091	0.0080	0.0225	0.015836702	1	1.45
0.0270	-0.0100	0.2458	0.0373	0.0046	0.0096	0.0041	0.015796619	2	2.08

-0.0068	0.0209	0.0166	0.0149	0.0000	0.0193	0.0164	0.015775303	0	0.00
0.0743	0.0128	-0.0033	-0.0019	0.0183	0.0322	0.0184	0.015596539	1	1.25
0.0541	0.0018	0.0266	0.0009	0.0137	0.0080	0.0225	0.015289785	0	0.00
0.0338	-0.0027	0.0100	-0.0047	0.0228	0.0177	0.0205	0.01522929	1	0.96
0.0068	0.0756	0.0199	-0.0047	0.0137	0.0659	0.0102	0.015089729	4	2.96
0.0135	0.0082	0.0233	-0.0047	0.0959	0.0177	0.0123	0.014989985	1	0.85
0.0203	0.0036	0.0033	0.0093	0.0502	0.0257	0.0164	0.014803669	0	0.00
0.0068	0.0064	0.0299	0.0019	0.0228	0.1350	0.0082	0.014793904	1	0.79
0.0203	-0.0100	0.0233	-0.0028	0.0183	0.0193	0.0102	0.014769254	9	7.32
0.0270	0.0109	0.0133	0.0056	0.0183	0.0498	0.0102	0.014596901	2	1.85
0.0270	-0.0027	0.0000	0.0327	0.0411	0.0177	0.0020	0.014538104	0	0.00
0.0338	0.0000	0.0133	-0.0028	0.0274	0.0016	0.0328	0.014502489	2	1.67
0.0203	0.0346	0.0166	0.0084	0.0411	0.0064	0.0041	0.014336816	1	0.93
0.0270	-0.0055	0.1429	-0.0093	0.3699	0.0016	0.0143	0.014317372	11	6.40
0.0203	-0.0027	0.0100	0.0075	0.0274	0.0080	0.0287	0.014154428	1	1.18
0.0405	-0.0064	0.0233	-0.0103	0.0046	0.0305	0.0205	0.013911012	4	3.39
0.0338	0.0000	0.0133	0.0009	0.0137	0.0145	0.0225	0.013879245	0	0.00
0.0270	0.0164	0.0066	0.0112	0.0091	0.0145	0.0348	0.013798963	0	0.00
0.0068	-0.0055	0.0332	-0.0037	0.0137	0.0450	0.0205	0.01362428	1	1.15
0.0405	0.0118	-0.0100	0.0159	0.0228	0.0113	0.0061	0.013563518	1	1.37
0.0270	-0.0018	0.0000	0.0000	0.0274	0.0338	0.0246	0.013513514	0	0.00
0.0203	0.0082	0.0000	0.0103	0.0046	0.0305	0.0184	0.013319672	0	0.00
0.0135	-0.0027	0.0166	-0.0019	0.0137	0.0129	0.0492	0.013280183	0	0.00
0.0203	0.0009	0.0100	0.0392	0.0457	0.0048	0.0061	0.013208906	3	2.38
0.0000	-0.0055	0.0299	0.0065	0.0913	0.0241	0.0020	0.013082468	0	0.00
0.0405	-0.0109	0.0100	-0.0019	0.0685	0.0241	0.0020	0.013082468	6	4.62
0.0338	-0.0055	0.0233	0.0000	0.0228	0.0032	0.0143	0.013023242	1	1.33
0.0068	0.0128	0.0166	0.0103	0.0137	0.0209	0.0123	0.012996856	0	0.00
0.0203	-0.0073	0.0166	0.0000	0.0091	0.0289	0.0143	0.012871858	0	0.00
0.1419	-0.0009	-0.0100	-0.0103	0.0685	0.0064	0.0266	0.012864299	0	0.00
0.2568	0.0027	0.0930	-0.0112	-0.0091	-0.0145	0.0348	0.012851823	6	2.34
-0.0068	0.0164	0.0199	0.0196	0.0091	0.0048	0.0164	0.012762932	0	0.00
-0.0068	-0.0036	0.0199	-0.0075	0.1826	0.0289	0.1393	0.01264796	2	1.25
0.0270	0.0009	0.0033	-0.0056	-0.0137	0.0241	0.0287	0.012513252	3	2.11

0.0338	0.0073	0.0066	-0.0009	0.0183	0.0064	0.0225	0.012454679	1	0.89
0.0270	0.0128	0.0000	0.0149	-0.0046	0.0096	0.0307	0.012292806	0	0.00
0.0068	-0.0137	0.0199	-0.0093	0.0091	0.0177	0.0635	0.012220822	1	0.76
0.0473	-0.0055	-0.0033	-0.0037	0.0274	0.0016	0.0307	0.012037501	1	1.25
-0.0203	0.0027	-0.0066	-0.0047	0.0320	0.1045	0.0287	0.012009996	2	2.25
0.0541	-0.0109	-0.0100	-0.0037	0.0639	0.0273	0.0020	0.011798182	3	2.75
0.0203	-0.0100	0.0565	-0.0028	0.0274	0.0032	0.0061	0.011742852	4	2.48
0.0135	0.0000	0.0100	-0.0056	0.0365	0.0145	0.0102	0.011740146	1	1.23
0.0608	0.0173	0.0066	-0.0009	0.0183	-0.0032	0.0061	0.011725865	0	0.00
0.0405	-0.0018	0.0233	-0.0056	0.0320	0.0161	0.0000	0.011627907	0	0.00
0.0000	-0.0064	0.0233	-0.0019	0.0000	0.0241	0.0328	0.011627907	4	4.35
0.0068	-0.0027	0.1960	-0.0047	0.0183	0.0048	0.0184	0.011543996	0	0.00
0.0743	-0.0073	0.1761	-0.0009	0.0228	0.0064	0.0000	0.011415525	1	1.14
0.0068	-0.0055	0.0000	-0.0037	0.0228	0.0241	0.1168	0.011415525	0	0.00
0.0541	-0.0055	0.0299	-0.0047	0.0228	0.0096	0.0000	0.011415525	0	0.00
0.0203	0.0000	0.0100	0.0019	0.0183	0.0064	0.0164	0.011412156	0	0.00
0.0203	0.0036	0.0133	0.0084	0.0046	0.0241	0.0143	0.011373812	0	0.00
0.0135	0.0601	0.0100	0.0037	0.0091	0.0032	0.0143	0.011322967	1	1.32
0.0473	0.0036	0.0199	0.0019	0.0137	0.0080	0.0143	0.011191424	1	1.10
0.0203	-0.0073	0.2259	-0.0056	0.0046	0.0257	0.0020	0.011159725	2	2.33
0.0203	-0.0091	0.0199	-0.0112	0.0137	0.0129	0.0082	0.010947676	0	0.00
0.0203	-0.0055	0.0033	-0.0084	0.1963	0.0016	0.0225	0.010938994	1	0.65
0.0203	-0.0018	-0.0100	0.0289	0.0274	0.0016	0.0041	0.010938994	1	1.06
0.0203	0.0100	0.0033	-0.0009	0.0274	0.0032	0.0184	0.010882441	0	0.00
-0.0135	0.0410	0.0233	0.1335	-0.0091	-0.0016	0.0020	0.010824049	1	0.49
0.0135	0.0155	0.0100	-0.0047	0.0091	-0.0016	0.0123	0.010713751	0	0.00
0.0608	-0.0082	-0.0033	0.0028	0.0137	0.0241	0.0184	0.010621872	6	4.51
0.0068	0.0000	0.0233	0.0028	0.0228	0.0145	0.0123	0.010613105	0	0.00
-0.0068	0.0164	0.0332	0.0019	0.0228	0.0048	0.0082	0.010608297	0	0.00
0.0203	0.0009	0.2392	0.0047	0.0228	-0.0064	-0.0369	0.010590509	0	0.00
0.0068	-0.0064	0.0166	-0.0047	0.2420	0.0096	0.0143	0.01055051	0	0.00
0.0068	-0.0055	0.0033	-0.0028	0.0548	0.0177	0.0287	0.010503573	1	1.15
-0.0135	0.0073	0.0100	0.0019	0.0137	0.0225	0.0164	0.010492302	0	0.00
0.0135	-0.0046	0.0199	-0.0112	0.0046	0.0177	0.0164	0.010479827	2	2.02

0.0203	0.0009	0.0199	0.0000	0.0046	-0.0016	0.1189	0.010422151	1	1.54
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Neighbor genes, EntrezID

11067, 11156, 26228, 390, 493, 5318, 54733, 56475, 595, 6335, 6402, 694, 7022, 8934

10242, 23654, 3708, 894

7805

25801, 6279, 6280

1436, 2207, 2350, 2533, 3055, 313, 3394, 341, 5199, 55647, 558, 7940, 8288, 9249

25825

10653, 151162, 2203, 54, 59307, 780, 7805

27250, 2774

26872, 3568, 54361, 55765, 81491

1047, 25825, 4675, 79366, 92140

1316, 79026

23231, 80765

1439, 29802

55013

22895

5125, 7291

10236, 114882

11156, 54498

9077

10125

2619

1439, 9459

3995

23141

1191, 2811, 4900, 51266

2774

5742

10123, 1439, 23493, 28232, 390, 638, 7204, 79026, 8837

25825, 5274

3221, 56255

79656

1027, 1536, 23158, 27071, 27250, 27334, 4082, 5368, 55790, 79703, 9056

9450

3600, 54979, 7453, 7762

219654

3597

10653, 6692, 6768

10801, 10938, 3783, 6768, 6850, 931

7805

10606, 1503, 158, 22948, 471, 5901

3832, 4436

4534, 51765, 79868

23046

5270

5274

60490, 79930

1573, 715, 9542

11180, 2870, 863, 9456

27347

22800, 3561, 51177, 55589

27018

3005

1287

1831, 694

8503

595

3674

221061, 27075, 55076, 6785, 8439, 98

2316

2870, 80758

Neighbors genes, Symbol

C10orf10, PTP4A3, STAP1, RND3, ATP2B4, PKP2, SLC35F2, RPRM, CCND1, SCN9A, SELL, BTG1, TFAP2C, RAB7L1

KCNMB2, PLXNB2, ITPR1, CCND2

LAPTM5

GCA, S100A8, S100A9

CSF1R, FCER1G, FOLR2, FYB, HCK, AOA1, IRF8, APOC1, CFP, RAB20, AXL, LST1, EPX, DHRS3

BACE2

SPINT2, LOC151162, FBP1, ACP5, SIGIRR, DDR1, LAPTM5

PDCD4, GNAL

STEAP1, IL5RA, WNT4, C1orf106, GPR63

CLGN, BACE2, NAP1L3, NSBP1, MTDH

KLF6, AHNAK

KIAA0746, STARD5

CSF2RB, VPREB3

CCDC109B

RPH3A

PCSK5, TWIST1

HNRNPR, OSBPL8

PTP4A3, SMOX

DIRAS3

RASGRP1

GAS1

CSF2RB, ARHGEF6

FADS3

ANKLE2

CLU, GP1BA, NRGN, CLEC1B

GNAL

PTGS1

ARL4C, CSF2RB, HEY2, SLCO3A1, RND3, BIK, TRIO, AHNAK, CFLAR

BACE2, SERPINI1

HOXC4, TXNDC13

C1orf165

CDKN1B, CYBB, TBC1D9, DAPP1, PDCD4, P2RY10, MARCKS, PNOC, CSGALNACT1, C11orf80, SLC7A7

LY86

IL15, HRASLS2, WARS, ZNF215

ZCCHC24

IL13RA1

SPINT2, SPINT1, ST14

SEPT9, EHD1, KCNN4, ST14, SYK, MS4A1

LAPTM5

PAICS, CTPS, ADSL, CCT5, ATIC, RAN

KIF11, MSH2

MTM1, RP6-213H19.1, ALG13

KIF21B

SERPINE2

SERPINI1

PPCDC, DOK3

CYP2J2, C1R, NRG2

WDR6, GRK6, CBFA2T3, HOMER1

STK39

RRAS2, IL2RG, PLEKHO1, BMP2K

NGFRAP1

HIF0

COL4A5

TSC22D3, BTG1

PIK3R3

CCND1

ITGA2B

FAM171A1, TSPAN13, TMEM45A, ELOVL4, NSMAF, ACYP2

FLNA

GRK6, PRR7

CCT6A




