

Tumor ID#	Normal ID#	Age	Gender	Surgical type	Tumor type	Grade	Stage	Margins	Tumor size (cm)	Recurrence status	Status code	Time FU event (mos)	Time death (mos)
98	100	72	F	Open NX	Clear cell RCC	2	3	Neg	12.00	NED	0	1	N/A
177	178	45	M	Open NX	Clear cell RCC	2	1	Neg	4.50	NED	0	110	N/A
257	258	65	M	Open NX	Clear cell RCC	3	2	Neg	10.30	NED	0	128	N/A
282	281	72	M	Open NX	Tubulopapillary RCC	2	4	Neg	3	UNK	N/A	N/A	N/A
334	337	44	F	Open NX	Unclass. RCC Oncocytic	3	3	Neg	20.00	NED	0	59	N/A
512	511	87	F	Open NX	Clear cell RCC	3	2	Neg	9	NED	0	103	N/A
525	526	71	M	Open NX	Chromophobe RCC	N/A	3	Neg	4.00	NED	0	125	N/A
596	597	54	F	Open NX	Clear cell RCC	3	3	Neg	6.00	AWD	1	1	N/A
655	656	60	M	Open NX	Sarcomatoid/chrom.	4	4	Neg?	22.00	UNK	N/A	N/A	N/A
695	696	58	F	Open NX	Clear cell RCC	2	3	Pos	5	UNK	N/A	N/A	N/A
997	996	2	M	Open NX	Wilms tumor	low	2	Neg	17.00	UNK	N/A	N/A	N/A
1017	1018	77	M	Open NX	Clear cell RCC	3	2	Neg	10	NED	0	12	N/A
1026	1027	77	F	Open NX	Clear cell RCC	2	3	Neg	2.50	NED	0	5	N/A
1060	1061	39	F	Open NX	Clear cell RCC	2	1	Neg	5.30	AWD	1	91	N/A
1221	1222	71	F	Open NX	Papillary	2	1	Neg	4.5	NED	0	115	N/A
1266	1267	66	F	Open NX	Clear cell RCC	3	3	Neg	9.50	DOD	2	2	4
1381	1382	73	F	Open NX	Transitional cell CA	High	3	Neg	6.50	DOD	2	19	42
1534	1535	69	F	Lap NX	Clear cell RCC	2	1	Neg	3.00	NED	0	1	N/A
1610	1611	65	F	Open NX	Chromophobe	2	2	Neg	10.00	NED	0	62	N/A
1615	1616	57	M	Open NX	Papillary RCC	1	2	Neg	4.80	NED	0	108	N/A
1709	1710	69	M	Open NX	Clear cell RCC	4	2	Neg	8.00	NED	0	108	N/A
1944	1945	69	M	Open NX	Clear cell RCC	3	4	Neg	10.50	DOD	2	17	24
1967	1968	78	M	Open NX	Papillary RCC	3	4	Neg	10.50	DOD	2	17	40
2019	2020	70	M	Open NX	Papillary RCC	2	1	Neg	3.50	UNK	N/A	N/A	N/A
2297	2298	47	M	Open NX	Clear cell RCC	2	2	Neg	9.00	NED	0	69	N/A
2435	2436	70	F	Open NX	Chromophobe RCC	2	3	Neg	6.50	NED	0	59	N/A
2575	2576	35	F	Rad NX	Clear cell RCC	2	1	Neg	5.00	NED	0	6	N/A
2589	2590	52	F	Open NX	Clear cell RCC	2	1	Neg	2.00	NED	0	3	N/A
2765	2766	61	M	Lap NX	Clear cell RCC	3	2	Neg	7.00	AWD	1	12	N/A
2800	2801	56	F	Open NX	Chromophobe	1	2	Neg	8.4	NED	0	60	N/A
2845	2846	53	F	Lap NX	Chromophobe	2	1	Neg	3.5	NED	0	75	N/A
2848	2849	49	M	Open NX	Clear cell RCC	2	1	Neg	5.30	NED	0	17	N/A
2864	2865	58	M	Open NX	Clear/sarcomatoid	4	4	Neg	12.00	DOD	2	0	38
2886	2887	66	M	Lap NX	Clear cell RCC	2	1	Neg	4.00	NED	0	83	N/A
2901	2902	75	M	Open NX	Clear cell RCC	3	3	Neg	8.00	NED	0	81	N/A
3015	3016	72	M	Open NX	Clear cell RCC	2	2	Neg	8	UNK	N/A	N/A	N/A
3022	3023	51	F	Open NX	Sarcomatoid/Chrom.	4	3	Neg	17.00	AWD	1	6	N/A
3033	3034	74	M	Open NX	Sarcomatoid	4	4	Pos	13.50	DOD	2	1	12
3035	3036	62	M	Open NX	Oncocytoma	1	2	Neg	9.80	NED	0	3	N/A
3057	3058	69	M	Open NX	Clear cell RCC	2	3	Neg	4	NED	0	80	N/A
3064	3065	66	M	Open NX	Clear cell RCC	2	3b	Pos	11.50	AWD	1	17	N/A
3106	3107	61	F	Open NX	Clear cell RCC	3	2	Neg	7.20	DOD	2	5	49
3125	3126	82	M	Open NX	Oncocytoma	1	2	Neg	16.00	UNK	N/A	N/A	N/A
5038	5039	66	M	Open NX	Clear cell RCC	3	3	Neg	4.60	UNK	N/A	N/A	N/A
5049	5050	57	M	Lap NX	Clear/sarcomatoid	4	2	Neg	8.70	DOD	2	17	48
5080	5081	64	M	Open NX	Clear cell RCC	2	4	Neg	10.00	DOD	2	0	13
5083	5084	44	M	Open NX	Clear cell RCC	2	3	Neg	12.50	UNK	N/A	N/A	N/A
5118	5119	58	M	Open NX	Clear cell RCC	4	4	Neg	10.30	DOD	2	0	37
5264	5265	71	F	Lap NX	Chromophobe RCC	N/A	1	Neg	5.00	NED	0	72	N/A
5273	5274	51	M	Lap NX	Clear cell RCC	3	3	Neg	3.50	DOC	3	15	N/A
5299	5300	58	M	Open NX	Clear cell RCC	2	3	Neg	7.10	UNK	N/A	N/A	N/A
5313	5314	59	M	Lap NX	Clear cell RCC	2	3	Neg	9.00	NED	0	72	N/A
5316	5317	57	M	Lap NX	Papillary	2	2	Neg	13.00	NED	0	67	N/A
5353	5354	58	M	Open NX	Clear cell RCC	4	4	Pos	13.00	AWD	1	1	N/A
5360	5361	76	F	Lap NX	Clear cell RCC	2	1	Neg	4.00	NED	0	24	N/A
5555	5556	58	M	Lap NX	Clear cell RCC	2	3	Neg	7.40	NED	0	72	N/A
5557	5558	74	M	Lap NX	Papillary RCC	2	3	Neg	10.00	AWD	1	6	N/A
5566	5567	66	M	Lap NX	Clear cell RCC	2	1	Neg	2.50	NED	0	10	N/A
5589	5590	70	F	Lap NX	Clear cell RCC	4	3	Neg	10	NED	0	1	N/A
5644	5645	36	M	Lap NX	Chromophobe RCC	1	1	Neg	5.20	NED	0	19	N/A
5646	5647	59	M	Lap NX	Tubulopapillary RCC	1	1	Neg	2.00	NED	0	61	N/A
5652	5653	84	F	Lap NX	Clear cell RCC	3	1	Neg	4.40	DOC	3	17	17
5654	5655	59	F	Lap NX	Clear cell RCC	2	1	Neg	5.50	NED	0	45	N/A
5656	5657	74	M	Lap NX	Clear/sarcomatoid	3	1	Neg	6.20	DOD	2	6	10
5865	5866	65	F	Lap NX	Clear cell RCC	2	1	Neg	4.40	UNK	N/A	N/A	N/A
5903	5904	58	M	Lap NX	Clear cell RCC	4	4	Neg	9.20	AWD	1	0	N/A
5989	5990	71	M	Lap NX	Clear cell RCC	2	1	Neg	4.20	NED	0	66	N/A
6069	6070	41	F	Lap NX	Clear cell RCC	2	1	Neg	6.00	NED	0	15	N/A
6099	6100	55	M	Open NX	Clear cell RCC	2	2	Neg	15.40	NED	0	27	N/A
6281	6282	69	M	Lap NX	Oncocytoma	1	1	Neg	2.5	NED	0	60	N/A
6594	6595	35	M	Lap NX	Clear cell RCC	3	1	Neg	4.50	UNK	N/A	N/A	N/A
6679	6680	83	M	Lap NX	Oncocytoma	1	3	Neg	3.9	NED	0	53	N/A
6717	6718	64	F	Lap NX	Clear cell RCC	2	1	Neg	4.10	NED	0	17	N/A
6785	6786	42	F	Open NX	Clear cell RCC	4	3	Neg	12.00	UNK	N/A	N/A	N/A
6788	6789	81	M	Lap NX	Clear cell RCC	2	3	Neg	7.30	NED	0	57	N/A
6816	6817	50	F	Lap NX	Clear cell RCC	2	1	Neg	4.00	DOC	3	4	4
6874	6875	74	F	Open NX	Clear cell RCC	3	3	Neg	10.00	AWD	1	27	N/A
6881	6882	73	M	Open NX	Papillary	1	1	Neg	6	NED	0	53	N/A
6927	6928	84	M	Lap NX	Clear cell RCC	2	1	Neg	6.00	NED	0	30	N/A

6976	6977	51	M	Lap NX	Clear cell RCC	1	1	Neg	2.90	UNK	N/A	N/A	N/A
7026	7027	56	M	Lap NX	Clear cell RCC	3	3	Neg	5.60	DOD	2	14	52
7057	7058	81	M	Lap NX	Clear cell RCC	3	1	Neg	6.20	UNK	N/A	N/A	N/A
7073	7074	57	F	Open NX	Clear cell RCC	3	4	Neg	6.50	AWD	1	0	N/A
7352	7353	55	M	Lap NX	Clear cell RCC	2	1	Neg	3.70	NED	0	31	N/A
7440	7441	49	F	Open NX	Chromophobe	N/A	2	Neg	12.50	UNK	N/A	N/A	N/A
7475	7476	86	M	Lap NX	Tubulopapillary RCC	2	1	Neg	3.90	DOC	3	10	10
7480	7481	65	M	Lap NX	Clear cell RCC	2	3	Neg	4.80	NED	0	45	N/A
7483	7484	57	M	Open NX	Clear cell RCC	4	2	Neg	9.00	UNK	N/A	N/A	N/A
7654	7655	53	F	Open NX	Clear cell RCC	3	2	Neg	8.00	NED	0	41	N/A
7689	7690	70	M	Lap NX	Clear/sarcomatoid	4	1	Neg	6.20	DOD	2	6	38
0-1-1069	0-1-1070	86	F	Open NX	Clear cell RCC	3	3	Neg	8.80	NED	0	1	N/A
0-1-1235	0-1-1029	58	M	Open NX	Clear cell RCC	2	1	Neg	7.50	AWD	1	103	N/A
0-1-1312	0-1-1303	62	M	Open NX	Clear cell RCC	3	1	Neg	7	NED	0	120	N/A
0-1-1577	0-1-1590	77	F	Open NX	TCCA/mixed CA	N/A	N/A	Pos	3.30	UNK	N/A	N/A	N/A
0-1-1641	0-1-1634	43	F	Lap NX	Chrom./oncocytic/unclass.	2	1	Neg	4.50	NED	0	130	N/A
0-1-206	0-1-262	44	M	Open NX	Chromophobe RCC	3	2	Neg	7.50	UNK	N/A	N/A	N/A
0-1-433	0-1-414	67	M	Open NX	Clear cell RCC	2	1	Neg	3.00	NED	0	24	N/A
0-1-460	0-1-484	50	M	Open NX	Clear cell RCC	2	3	Pos	6.50	UNK	N/A	N/A	N/A
0-1-672	0-1-673	46	F	Open NX	Clear cell RCC	3	4	Neg	12.00	NED	0	24	N/A
0-1-692	0-1-693	62	M	Open NX	Clear cell RCC	4	3	Neg	10.00	DOD	2	4	22
0-1-71	0-1-241	65	F	Open NX	Clear cell RCC	3	3	Neg	11.00	UNK	N/A	N/A	N/A

Significant LMM Analysis CpGs	Model CpG Significant In
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cg21415604	Both
cg08762247	Both
cg16332577	Both
cg19184963	Both
cg11126313	Both
cg19118533	Both
cg14030359	Both
cg23651356	Both
cg14580737	Both
cg27210390	Both
cg17192247	Both
cg26459500	Both
cg18641937	Both
cg11819637	Both
cg21979032	Both
cg26489108	Both
cg21574752	Both
cg26511075	Both
cg02828104	Both
cg25412453	Both
cg07256847	Both
cg19008649	Both
cg20994561	Both
cg05755779	Both
cg27543230	Both
cg09998229	Both
cg11879514	Both
cg25834275	Both
cg24506604	Both

cg17088290	Both
cg06210526	Both
cg21134096	Both
cg06452647	Both
cg20797699	Both
cg24549507	Both
cg07880854	Both
cg17795586	Both
cg14904464	Both
cg01428678	Both
cg13086467	Both
cg20277416	Both
cg06288632	Both
cg26299767	Both
cg05942970	Both
cg24727203	Both
cg11027330	Both
cg15639045	Both
cg25438415	Both
cg03161839	Both
cg23623692	Both
cg25425005	Both
cg09298623	Both
cg14741922	Both
cg16399745	Both
cg07774025	Both
cg23621817	Both
cg07008386	Both
cg04121983	Both
cg04330084	Both
cg05293216	Both
cg15309066	Both
cg21281799	Both
cg07711515	Both
cg09541248	Both
cg03063797	Both
cg08434234	Both
cg12514506	Both
cg15239123	Both
cg21416022	Both
cg03732545	Both
cg24754277	Both
cg14563260	Both
cg01200177	Both
cg25229172	Both
cg26090660	Both
cg08548888	Both
cg10660136	Both
cg00659129	Both
cg04553559	Both
cg17963840	Both
cg08335125	Both
cg08888956	Both

cg10498097	Both
cg17229197	Both
cg13968061	Both
cg27214774	Both
cg26672426	Both
cg08367838	Both
cg21183846	Both
cg27662379	Both
cg19769182	Both
cg04765422	Both
cg19930802	Both
cg18059933	Both
cg09037858	Both
cg26090652	Both
cg26333317	Both
cg19560287	Both
cg10358212	Both
cg16641915	Both
cg03700308	Both
cg16794682	Both
cg25620220	Both
cg07371290	Both
cg13438834	Both
cg18335243	Both
cg18433086	Both
cg18380975	Both
cg26533949	Both
cg11856093	Both
cg20732137	Both
cg19579782	Both
cg16051685	Both
cg03097995	Both
cg09082921	Both
cg10421561	Both

Term	Description	General RCC, More or Less Methylated in Tumors	ccRCC, More or Less Methylated in Tumors
GO:0004871	signal transducer activity	Both	Both
GO:0004872	receptor activity	Both	Both
GO:0004888	transmembrane signaling receptor activity	Both	Both
GO:0004930	G-protein coupled receptor activity	Both	Both
GO:0005576	extracellular region	Both	Both
GO:0005615	extracellular space	Both	Both
GO:0005886	plasma membrane	Both	Both
GO:0005887	integral to plasma membrane	Both	Both
GO:0016021	integral to membrane	Both	Both
GO:0031224	intrinsic to membrane	Both	Both
GO:0031226	intrinsic to plasma membrane	Both	Both
GO:0038023	signaling receptor activity	Both	Both
GO:0044421	extracellular region part	Both	Both
GO:0044425	membrane part	Both	Both
GO:0044459	plasma membrane part	Both	Both
GO:0060089	molecular transducer activity	Both	Both
KEGG MAPK SIGNALING PATHWAY	MAPK signaling pathway	Both	Both
KEGG NEUROACTIVE_LIGAND_RECEPTOR_PATHWAY	Neuroactive ligand-receptor interaction	Both	Both
KEGG PATHWAYS_IN_CANCER	Pathways in cancer	Both	Both
REACTOME_CLASS_A1_RHODOPSIN_LIKE_PATHWAY	Genes involved in Class A/1 (Rhodopsin-like) signaling pathway	Both	Both
REACTOME_G_ALPHA_I_SIGNALING_PATHWAY	Genes involved in G alpha (i) signalling pathway	Both	Both
REACTOME_GASTRIN_CREB_SIGNALING_PATHWAY	Genes involved in Gastrin-CREB signalling pathway	Both	Both
REACTOME_GPCR_DOWNSTREAM_SIGNALING_PATHWAY	Genes involved in GPCR downstream signaling pathway	Both	Both
REACTOME_GPCR_LIGAND_BINDING	Genes involved in GPCR ligand binding	Both	Both
REACTOME_HEMOSTASIS	Genes involved in Hemostasis	Both	Both
REACTOME_NEURONAL_SYSTEM	Genes involved in Neuronal System	Both	Both
REACTOME_PEPTIDE_LIGAND_BINDING	Genes involved in Peptide ligand-binding receptor signaling pathway	Both	Both
REACTOME_SIGNALING_BY_GPCR	Genes involved in Signaling by GPCR	Both	Both
REACTOME_SLC_MEDIATED_TRANSMEMBRANE_TRANSPORT	Genes involved in SLC-mediated transmembrane transport	Both	Both
REACTOME_TRANSMEMBRANE_TRANSPORT	Genes involved in Transmembrane transport	Both	Both
GO:0001653	peptide receptor activity	More	Both
GO:0005102	receptor binding	More	Both
GO:0007186	G-protein coupled receptor signaling pathway	More	Both
GO:0016020	membrane	More	Both
REACTOME_G_ALPHA_Q_SIGNALING_PATHWAY	Genes involved in G alpha (q) signalling pathway	More	Both
REACTOME_TRANSMISSION_ACROSS_CELL_MEMBRANE	Genes involved in Transmission across Cell Membrane	More	Both
GO:0001816	cytokine production	NA	Less
GO:0001878	response to yeast	NA	Less
GO:0002020	protease binding	NA	Less
GO:0002275	myeloid cell activation involved in immune response	NA	Less
GO:0002407	dendritic cell chemotaxis	NA	Less
GO:0002685	regulation of leukocyte migration	NA	Less
GO:0002700	regulation of production of molecular mediators	NA	Less
GO:0002712	regulation of B cell mediated immunity	NA	Less
GO:0004252	serine-type endopeptidase activity	NA	Less
GO:0004497	monooxygenase activity	NA	Less
GO:0004522	pancreatic ribonuclease activity	NA	Less
GO:0004620	phospholipase activity	NA	Less
GO:0004629	phospholipase C activity	NA	Less
GO:0004857	enzyme inhibitor activity	NA	Less
GO:0005164	tumor necrosis factor receptor binding	NA	Less
GO:0006805	xenobiotic metabolic process	NA	Less
GO:0007159	leukocyte cell-cell adhesion	NA	Less
GO:0008236	serine-type peptidase activity	NA	Less
GO:0008289	lipid binding	NA	Less
GO:0009055	electron carrier activity	NA	Less
GO:0009264	deoxyribonucleotide catabolic process	NA	Less
GO:0009593	detection of chemical stimulus	NA	Less
GO:0009605	response to external stimulus	NA	Less
GO:0010466	negative regulation of peptidase activity	NA	Less
GO:0010528	regulation of transposition	NA	Less
GO:0010529	negative regulation of transposition	NA	Less
GO:0010896	regulation of triglyceride catabolic process	NA	Less
GO:0016298	lipase activity	NA	Less
GO:0016810	hydrolase activity, acting on carbon-nitrogen bonds	NA	Less
GO:0017171	serine hydrolase activity	NA	Less
GO:0020037	heme binding	NA	Less
GO:0030246	carbohydrate binding	NA	Less
GO:0032101	regulation of response to external stimulus	NA	Less
GO:0032103	positive regulation of response to external stimulus	NA	Less
GO:0032649	regulation of interferon-gamma production	NA	Less
GO:0032680	regulation of tumor necrosis factor production	NA	Less
GO:0032760	positive regulation of tumor necrosis factor production	NA	Less
GO:0032813	tumor necrosis factor receptor superfamily class 1 member 1 binding	NA	Less
GO:0032946	positive regulation of mononuclear cell proliferation	NA	Less
GO:0033003	regulation of mast cell activation	NA	Less
GO:0034097	response to cytokine stimulus	NA	Less
GO:0034367	macromolecular complex remodeling	NA	Less
GO:0034368	protein-lipid complex remodeling	NA	Less
GO:0034369	plasma lipoprotein particle remodeling	NA	Less
GO:0036150	phosphatidylserine acyl-chain remodeling	NA	Less
GO:0036336	dendritic cell migration	NA	Less
GO:0042102	positive regulation of T cell proliferation	NA	Less
GO:0042345	regulation of NF-kappaB import into nucleus	NA	Less
GO:0042379	chemokine receptor binding	NA	Less
GO:0042592	homeostatic process	NA	Less
GO:0046135	pyrimidine nucleoside catabolic process	NA	Less
GO:0046889	positive regulation of lipid biosynthetic process	NA	Less
GO:0046906	tetrapyrrole binding	NA	Less
GO:0047760	butyrate-CoA ligase activity	NA	Less
GO:0048584	positive regulation of response to stimulus	NA	Less
GO:0050671	positive regulation of lymphocyte proliferation	NA	Less
GO:0050709	negative regulation of protein secretion	NA	Less
GO:0050727	regulation of inflammatory response	NA	Less
GO:0050729	positive regulation of inflammatory response	NA	Less
GO:0050853	B cell receptor signaling pathway	NA	Less
GO:0050864	regulation of B cell activation	NA	Less
GO:0050906	detection of stimulus involved in sensory perception	NA	Less
GO:0050907	detection of chemical stimulus involved in sensory perception	NA	Less
GO:0050911	detection of chemical stimulus involved in sensory perception	NA	Less
GO:0051050	positive regulation of transport	NA	Less
GO:0051222	positive regulation of protein transport	NA	Less

GO:0051606	detection of stimulus	NA	Less
GO:0051852	disruption by host of symbiont cells	NA	Less
GO:0051873	killing by host of symbiont cells	NA	Less
GO:0052547	regulation of peptidase activity	NA	Less
GO:0052548	regulation of endopeptidase activity	NA	Less
GO:0065008	regulation of biological quality	NA	Less
GO:0070330	aromatase activity	NA	Less
GO:0070665	positive regulation of leukocyte proliferation	NA	Less
GO:0072529	pyrimidine-containing compound catabolic process	NA	Less
GO:0090207	regulation of triglyceride metabolic process	NA	Less
GO:2000106	regulation of leukocyte apoptotic process	NA	Less
REACTOME_PHASE1_FUNCTIONALIZATION	Genes involved in Phase 1 - Functionalization	NA	Less
KEGG_ARACHIDONIC_ACID_METABOLISM	Arachidonic acid metabolism	NA	Less
REACTOME_PLATELET_ACTIVATION_SIGNALING	Genes involved in Platelet activation, signaling	NA	Less
KEGG_COMPLEMENT_AND_COAGULATION	Complement and coagulation cascades	NA	Less
KEGG_DRUG_METABOLISM_CYTOCHROME_P450	Drug metabolism - cytochrome P450	NA	Less
KEGG_AUTOIMMUNE_THYROID_DISEASE	Autoimmune thyroid disease	NA	Less
PID_CD8TCRDOWNSIGNALINGPATHWAY	Downstream signaling in naive CD8+ T cells	NA	Less
GO:0001533	cornified envelope	Less	Less
GO:0001637	G-protein coupled chemoattractant receptor activity	Less	Less
GO:0001775	cell activation	Less	Less
GO:0001817	regulation of cytokine production	Less	Less
GO:0001906	cell killing	Less	Less
GO:0002237	response to molecule of bacterial origin	Less	Less
GO:0002252	immune effector process	Less	Less
GO:0002253	activation of immune response	Less	Less
GO:0002263	cell activation involved in immune response	Less	Less
GO:0002274	myeloid leukocyte activation	Less	Less
GO:0002366	leukocyte activation involved in immune response	Less	Less
GO:0002376	immune system process	Less	Less
GO:0002429	immune response-activating cell surface receptor activity	Less	Less
GO:0002526	acute inflammatory response	Less	Less
GO:0002682	regulation of immune system process	Less	Less
GO:0002683	negative regulation of immune system process	Less	Less
GO:0002684	positive regulation of immune system process	Less	Less
GO:0002694	regulation of leukocyte activation	Less	Less
GO:0002695	negative regulation of leukocyte activation	Less	Less
GO:0002696	positive regulation of leukocyte activation	Less	Less
GO:0002697	regulation of immune effector process	Less	Less
GO:0002699	positive regulation of immune effector process	Less	Less
GO:0002703	regulation of leukocyte mediated immunity	Less	Less
GO:0002704	negative regulation of leukocyte mediated immunity	Less	Less
GO:0002706	regulation of lymphocyte mediated immunity	Less	Less
GO:0002714	positive regulation of B cell mediated immunity	Less	Less
GO:0002757	immune response-activating signal transduction	Less	Less
GO:0002819	regulation of adaptive immune response	Less	Less
GO:0002822	regulation of adaptive immune response balance	Less	Less
GO:0002861	regulation of inflammatory response to antigen	Less	Less
GO:0002889	regulation of immunoglobulin mediated immunity	Less	Less
GO:0002891	positive regulation of immunoglobulin mediated immunity	Less	Less
GO:0003823	antigen binding	Less	Less
GO:0004866	endopeptidase inhibitor activity	Less	Less
GO:0004867	serine-type endopeptidase inhibitor activity	Less	Less
GO:0004950	chemokine receptor activity	Less	Less
GO:0004984	olfactory receptor activity	Less	Less
GO:0005125	cytokine activity	Less	Less
GO:0005126	cytokine receptor binding	Less	Less
GO:0005882	intermediate filament	Less	Less
GO:0006935	chemotaxis	Less	Less
GO:0006950	response to stress	Less	Less
GO:0006952	defense response	Less	Less
GO:0006953	acute-phase response	Less	Less
GO:0006954	inflammatory response	Less	Less
GO:0006955	immune response	Less	Less
GO:0006959	humoral immune response	Less	Less
GO:0006968	cellular defense response	Less	Less
GO:0008009	chemokine activity	Less	Less
GO:0008329	signaling pattern recognition receptor activity	Less	Less
GO:0009595	detection of biotic stimulus	Less	Less
GO:0009607	response to biotic stimulus	Less	Less
GO:0009611	response to wounding	Less	Less
GO:0009615	response to virus	Less	Less
GO:0009617	response to bacterium	Less	Less
GO:0009620	response to fungus	Less	Less
GO:0009897	external side of plasma membrane	Less	Less
GO:0016712	oxidoreductase activity, acting on paired donor and acceptor	Less	Less
GO:0019221	cytokine-mediated signaling pathway	Less	Less
GO:0019864	IgG binding	Less	Less
GO:0019865	immunoglobulin binding	Less	Less
GO:0030414	peptidase inhibitor activity	Less	Less
GO:0030593	neutrophil chemotaxis	Less	Less
GO:0030595	leukocyte chemotaxis	Less	Less
GO:0031294	lymphocyte costimulation	Less	Less
GO:0031295	T cell costimulation	Less	Less
GO:0031347	regulation of defense response	Less	Less
GO:0031349	positive regulation of defense response	Less	Less
GO:0031424	keratinization	Less	Less
GO:0031640	killing of cells of other organism	Less	Less
GO:0032496	response to lipopolysaccharide	Less	Less
GO:0032732	positive regulation of interleukin-1 production	Less	Less
GO:0032944	regulation of mononuclear cell proliferation	Less	Less
GO:0034341	response to interferon-gamma	Less	Less
GO:0038187	pattern recognition receptor activity	Less	Less
GO:0042110	T cell activation	Less	Less
GO:0042116	macrophage activation	Less	Less
GO:0042129	regulation of T cell proliferation	Less	Less
GO:0042330	taxis	Less	Less
GO:0042737	drug catabolic process	Less	Less
GO:0042742	defense response to bacterium	Less	Less
GO:0043901	negative regulation of multi-organism process	Less	Less
GO:0044126	regulation of growth of symbiont in host	Less	Less
GO:0044130	negative regulation of growth of symbiont in host	Less	Less
GO:0044144	modulation of growth of symbiont involved in host	Less	Less

GO:0044146	negative regulation of growth of symbiont in host	Less	Less
GO:0044364	disruption of cells of other organism	Less	Less
GO:0045071	negative regulation of viral genome replication	Less	Less
GO:0045087	innate immune response	Less	Less
GO:0045095	keratin filament	Less	Less
GO:0045321	leukocyte activation	Less	Less
GO:0046133	pyrimidine ribonucleoside catabolic process	Less	Less
GO:0046649	lymphocyte activation	Less	Less
GO:0050670	regulation of lymphocyte proliferation	Less	Less
GO:0050704	regulation of interleukin-1 secretion	Less	Less
GO:0050707	regulation of cytokine secretion	Less	Less
GO:0050708	regulation of protein secretion	Less	Less
GO:0050714	positive regulation of protein secretion	Less	Less
GO:0050715	positive regulation of cytokine secretion	Less	Less
GO:0050716	positive regulation of interleukin-1 secretion	Less	Less
GO:0050764	regulation of phagocytosis	Less	Less
GO:0050766	positive regulation of phagocytosis	Less	Less
GO:0050776	regulation of immune response	Less	Less
GO:0050778	positive regulation of immune response	Less	Less
GO:0050829	defense response to Gram-negative bacterium	Less	Less
GO:0050830	defense response to Gram-positive bacterium	Less	Less
GO:0050832	defense response to fungus	Less	Less
GO:0050851	antigen receptor-mediated signaling pathway	Less	Less
GO:0050863	regulation of T cell activation	Less	Less
GO:0050865	regulation of cell activation	Less	Less
GO:0050866	negative regulation of cell activation	Less	Less
GO:0050867	positive regulation of cell activation	Less	Less
GO:0050868	negative regulation of T cell activation	Less	Less
GO:0050870	positive regulation of T cell activation	Less	Less
GO:0050896	response to stimulus	Less	Less
GO:0050900	leukocyte migration	Less	Less
GO:0051249	regulation of lymphocyte activation	Less	Less
GO:0051250	negative regulation of lymphocyte activation	Less	Less
GO:0051251	positive regulation of lymphocyte activation	Less	Less
GO:0051607	defense response to virus	Less	Less
GO:0051704	multi-organism process	Less	Less
GO:0051707	response to other organism	Less	Less
GO:0060326	cell chemotaxis	Less	Less
GO:0061134	peptidase regulator activity	Less	Less
GO:0061135	endopeptidase regulator activity	Less	Less
GO:0070098	chemokine-mediated signaling pathway	Less	Less
GO:0070663	regulation of leukocyte proliferation	Less	Less
GO:0071216	cellular response to biotic stimulus	Less	Less
GO:0071219	cellular response to molecule of bacterial origin	Less	Less
GO:0071222	cellular response to lipopolysaccharide	Less	Less
GO:0071346	cellular response to interferon-gamma	Less	Less
GO:0071621	granulocyte chemotaxis	Less	Less
GO:1902105	regulation of leukocyte differentiation	Less	Less
GO:2000107	negative regulation of leukocyte apoptotic process	Less	Less
KEGG_APOPTOSIS	Apoptosis	Less	Less
KEGG_CELL_ADHESION_MOLECULES	Cell adhesion molecules (CAMs)	Less	Less
KEGG_CHEMOKINE_SIGNALING_PATHWAY	Chemokine signaling pathway	Less	Less
KEGG_CYTOKINE_CYTOKINE_RECEPTOR_INTERACTION	Cytokine-cytokine receptor interaction	Less	Less
KEGG_GRAFT_VERSUS_HOST_DISEASE	Graft-versus-host disease	Less	Less
KEGG_HEMATOPOIETIC_CELL_LINEAGE	Hematopoietic cell lineage	Less	Less
KEGG_JAK_STAT_SIGNALING_PATHWAY	Jak-STAT signaling pathway	Less	Less
KEGG_LEISHMANIA_INFECTION	Leishmania infection	Less	Less
KEGG_LEUKOCYTE_TRANSENDOTHELIAL_MIGRATION	Leukocyte transendothelial migration	Less	Less
KEGG_NATURAL_KILLER_CELL_MEDIATED_CYTOTOXICITY	Natural killer cell mediated cytotoxicity	Less	Less
KEGG_T_CELL_RECEPTOR_SIGNALING_PATHWAY	T cell receptor signaling pathway	Less	Less
KEGG_TOLL_LIKE_RECEPTOR_SIGNALING_PATHWAY	Toll-like receptor signaling pathway	Less	Less
PID_CD8TCRPATHWAY	TCR signaling in naive CD8+ T cells	Less	Less
PID_CXCR4_PATHWAY	CXCR4-mediated signaling events	Less	Less
PID_TCR_PATHWAY	TCR signaling in naive CD4+ T cells	Less	Less
REACTOME_ADAPTIVE_IMMUNE_SYSTEM	Genes involved in Adaptive Immune System	Less	Less
REACTOME_BIOLOGICAL_OXIDATIONS	Genes involved in Biological oxidations	Less	Less
REACTOME_CELL_SURFACE_INTERACTIONS	Genes involved in Cell surface interactions	Less	Less
REACTOME_CHEMOKINE_RECEPTORS	Genes involved in Chemokine receptors binding	Less	Less
REACTOME_CYTOCHROME_P450_ARRAY	Genes involved in Cytochrome P450 - array	Less	Less
REACTOME_CYTOKINE_SIGNALING_IN_IMMUNE_SYSTEM	Genes involved in Cytokine Signaling in Immune System	Less	Less
REACTOME_IMMUNE_SYSTEM	Genes involved in Immune System	Less	Less
REACTOME_IMMUNOREGULATORY_INTERACTIONS	Genes involved in Immunoregulatory interactions	Less	Less
REACTOME_INNATE_IMMUNE_SYSTEM	Genes involved in Innate Immune System	Less	Less
REACTOME_INTERFERON_ALPHA_BETA_SIGNALING	Genes involved in Interferon alpha/beta signaling	Less	Less
REACTOME_INTERFERON_SIGNALING	Genes involved in Interferon Signaling	Less	Less
REACTOME_METABOLISM_OF_LIPIDS	Genes involved in Metabolism of lipids and lipoproteins	Less	Less
GO:0000977	RNA polymerase II regulatory region sequence	NA	More
GO:0001525	angiogenesis	NA	More
GO:0001649	osteoblast differentiation	NA	More
GO:0001942	hair follicle development	NA	More
GO:0003705	RNA polymerase II distal enhancer sequence	NA	More
GO:0005581	collagen	NA	More
GO:0006022	aminoglycan metabolic process	NA	More
GO:0006814	sodium ion transport	NA	More
GO:0007588	excretion	NA	More
GO:0008146	sulfotransferase activity	NA	More
GO:0008284	positive regulation of cell proliferation	NA	More
GO:0008328	ionotropic glutamate receptor complex	NA	More
GO:0009966	regulation of signal transduction	NA	More
GO:0009968	negative regulation of signal transduction	NA	More
GO:0010469	regulation of receptor activity	NA	More
GO:0015103	inorganic anion transmembrane transporter	NA	More
GO:0016055	Wnt receptor signaling pathway	NA	More
GO:0016323	basolateral plasma membrane	NA	More
GO:0016782	transferase activity, transferring sulfur-containing group	NA	More
GO:0030002	cellular anion homeostasis	NA	More
GO:0030018	Z disc	NA	More
GO:0030178	negative regulation of Wnt receptor signaling	NA	More
GO:0030203	glycosaminoglycan metabolic process	NA	More
GO:0030540	female genitalia development	NA	More
GO:0030574	collagen catabolic process	NA	More
GO:0030823	regulation of cGMP metabolic process	NA	More
GO:0030901	midbrain development	NA	More

GO:0031233	intrinsic to external side of plasma membrane	NA	More
GO:0032281	alpha-amino-3-hydroxy-5-methyl-4-isoxazole	NA	More
GO:0034035	purine ribonucleoside bisphosphate metabolic	NA	More
GO:0035137	hindlimb morphogenesis	NA	More
GO:0043235	receptor complex	NA	More
GO:0044243	multicellular organismal catabolic process	NA	More
GO:0044449	contractile fiber part	NA	More
GO:0046658	anchored to plasma membrane	NA	More
GO:0048168	regulation of neuronal synaptic plasticity	NA	More
GO:0048585	negative regulation of response to stimulus	NA	More
GO:0048771	tissue remodeling	NA	More
GO:0048863	stem cell differentiation	NA	More
GO:0050427	3'-phosphoadenosine 5'-phosphosulfate metabolic	NA	More
GO:0050680	negative regulation of epithelial cell proliferation	NA	More
GO:0050808	synapse organization	NA	More
GO:0060537	muscle tissue development	NA	More
GO:0070293	renal absorption	NA	More
GO:0070848	response to growth factor stimulus	NA	More
GO:0071363	cellular response to growth factor stimulus	NA	More
GO:0072089	stem cell proliferation	NA	More
GO:0072507	divalent inorganic cation homeostasis	NA	More
REACTOME_NCAM1_INTERACTIONS	Genes involved in NCAM1 interactions	NA	More
KEGG_MELANOGENESIS	Melanogenesis	NA	More
REACTOME_CELL_CELL_JUNCTION_ORGANIZATION	Genes involved in Cell-cell junction organization	NA	More
REACTOME_GENERIC_TRANSCRIPTION	Genes involved in Generic Transcription	NA	More
GO:0000904	cell morphogenesis involved in differentiation	More	More
GO:0000975	regulatory region DNA binding	More	More
GO:0000976	transcription regulatory region sequence-specific	More	More
GO:0000981	sequence-specific DNA binding RNA polymerase	More	More
GO:0000982	RNA polymerase II core promoter proximal	More	More
GO:0001067	regulatory region nucleic acid binding	More	More
GO:0001071	nucleic acid binding transcription factor activity	More	More
GO:0001077	RNA polymerase II core promoter proximal	More	More
GO:0001228	RNA polymerase II transcription regulatory	More	More
GO:0001501	skeletal system development	More	More
GO:0001508	regulation of action potential	More	More
GO:0001658	branching involved in ureteric bud morphogenesis	More	More
GO:0001664	G-protein coupled receptor binding	More	More
GO:0001667	ameboid cell migration	More	More
GO:0001708	cell fate specification	More	More
GO:0001755	neural crest cell migration	More	More
GO:0001763	morphogenesis of a branching structure	More	More
GO:0001764	neuron migration	More	More
GO:0001822	kidney development	More	More
GO:0001947	heart looping	More	More
GO:0002009	morphogenesis of an epithelium	More	More
GO:0002791	regulation of peptide secretion	More	More
GO:0003002	regionalization	More	More
GO:0003006	developmental process involved in reproduction	More	More
GO:0003008	system process	More	More
GO:0003012	muscle system process	More	More
GO:0003013	circulatory system process	More	More
GO:0003014	renal system process	More	More
GO:0003018	vascular process in circulatory system	More	More
GO:0003143	embryonic heart tube morphogenesis	More	More
GO:0003156	regulation of organ formation	More	More
GO:0003700	sequence-specific DNA binding transcription factor	More	More
GO:0004714	transmembrane receptor protein tyrosine kinase	More	More
GO:0004716	receptor signaling protein tyrosine kinase activity	More	More
GO:0005201	extracellular matrix structural constituent	More	More
GO:0005215	transporter activity	More	More
GO:0005216	ion channel activity	More	More
GO:0005230	extracellular ligand-gated ion channel activity	More	More
GO:0005231	excitatory extracellular ligand-gated ion channel	More	More
GO:0005244	voltage-gated ion channel activity	More	More
GO:0005245	voltage-gated calcium channel activity	More	More
GO:0005249	voltage-gated potassium channel activity	More	More
GO:0005251	delayed rectifier potassium channel activity	More	More
GO:0005261	cation channel activity	More	More
GO:0005262	calcium channel activity	More	More
GO:0005267	potassium channel activity	More	More
GO:0005326	neurotransmitter transporter activity	More	More
GO:0005328	neurotransmitter:sodium symporter activity	More	More
GO:0005509	calcium ion binding	More	More
GO:0005539	glycosaminoglycan binding	More	More
GO:0005578	proteinaceous extracellular matrix	More	More
GO:0006029	proteoglycan metabolic process	More	More
GO:0006140	regulation of nucleotide metabolic process	More	More
GO:0006811	ion transport	More	More
GO:0006812	cation transport	More	More
GO:0006813	potassium ion transport	More	More
GO:0006836	neurotransmitter transport	More	More
GO:0006928	cellular component movement	More	More
GO:0006936	muscle contraction	More	More
GO:0006937	regulation of muscle contraction	More	More
GO:0007154	cell communication	More	More
GO:0007155	cell adhesion	More	More
GO:0007156	homophilic cell adhesion	More	More
GO:0007165	signal transduction	More	More
GO:0007166	cell surface receptor signaling pathway	More	More
GO:0007187	G-protein coupled receptor signaling pathway	More	More
GO:0007188	adenylate cyclase-modulating G-protein coupled	More	More
GO:0007189	adenylate cyclase-activating G-protein coupled	More	More
GO:0007200	phospholipase C-activating G-protein coupled	More	More
GO:0007204	elevation of cytosolic calcium ion concentration	More	More
GO:0007218	neuropeptide signaling pathway	More	More
GO:0007267	cell-cell signaling	More	More
GO:0007268	synaptic transmission	More	More
GO:0007270	neuron-neuron synaptic transmission	More	More
GO:0007389	pattern specification process	More	More
GO:0007399	nervous system development	More	More
GO:0007411	axon guidance	More	More
GO:0007422	peripheral nervous system development	More	More

GO:0007600	sensory perception	More	More
GO:0007610	behavior	More	More
GO:0007611	learning or memory	More	More
GO:0007612	learning	More	More
GO:0007613	memory	More	More
GO:0007616	long-term memory	More	More
GO:0007626	locomotory behavior	More	More
GO:0007631	feeding behavior	More	More
GO:0008076	voltage-gated potassium channel complex	More	More
GO:0008150	biological process	More	More
GO:0008188	neuropeptide receptor activity	More	More
GO:0008201	heparin binding	More	More
GO:0008217	regulation of blood pressure	More	More
GO:0008227	G-protein coupled amine receptor activity	More	More
GO:0008324	cation transmembrane transporter activity	More	More
GO:0008344	adult locomotory behavior	More	More
GO:0008509	anion transmembrane transporter activity	More	More
GO:0008528	G-protein coupled peptide receptor activity	More	More
GO:0009187	cyclic nucleotide metabolic process	More	More
GO:0009653	anatomical structure morphogenesis	More	More
GO:0009719	response to endogenous stimulus	More	More
GO:0009887	organ morphogenesis	More	More
GO:0009888	tissue development	More	More
GO:0009952	anterior/posterior pattern specification	More	More
GO:0009953	dorsal/ventral pattern formation	More	More
GO:0010646	regulation of cell communication	More	More
GO:0010647	positive regulation of cell communication	More	More
GO:0010648	negative regulation of cell communication	More	More
GO:0010769	regulation of cell morphogenesis involved in	More	More
GO:0010810	regulation of cell-substrate adhesion	More	More
GO:0010817	regulation of hormone levels	More	More
GO:0010959	regulation of metal ion transport	More	More
GO:0010975	regulation of neuron projection development	More	More
GO:0014070	response to organic cyclic compound	More	More
GO:0015075	ion transmembrane transporter activity	More	More
GO:0015077	monovalent inorganic cation transmembrane	More	More
GO:0015079	potassium ion transmembrane transporter a	More	More
GO:0015081	sodium ion transmembrane transporter acti	More	More
GO:0015085	calcium ion transmembrane transporter acti	More	More
GO:0015267	channel activity	More	More
GO:0015276	ligand-gated ion channel activity	More	More
GO:0015291	secondary active transmembrane transport	More	More
GO:0015293	symporter activity	More	More
GO:0015370	solute:sodium symporter activity	More	More
GO:0015672	monovalent inorganic cation transport	More	More
GO:0016202	regulation of striated muscle tissue develop	More	More
GO:0016247	channel regulator activity	More	More
GO:0016324	apical plasma membrane	More	More
GO:0016337	cell-cell adhesion	More	More
GO:0016477	cell migration	More	More
GO:0019199	transmembrane receptor protein kinase acti	More	More
GO:0019233	sensory perception of pain	More	More
GO:0021515	cell differentiation in spinal cord	More	More
GO:0021527	spinal cord association neuron differentiat	More	More
GO:0021953	central nervous system neuron differentiat	More	More
GO:0022404	molting cycle process	More	More
GO:0022405	hair cycle process	More	More
GO:0022414	reproductive process	More	More
GO:0022603	regulation of anatomical structure morphog	More	More
GO:0022604	regulation of cell morphogenesis	More	More
GO:0022610	biological adhesion	More	More
GO:0022803	passive transmembrane transporter activity	More	More
GO:0022804	active transmembrane transporter activity	More	More
GO:0022832	voltage-gated channel activity	More	More
GO:0022834	ligand-gated channel activity	More	More
GO:0022836	gated channel activity	More	More
GO:0022838	substrate-specific channel activity	More	More
GO:0022839	ion gated channel activity	More	More
GO:0022843	voltage-gated cation channel activity	More	More
GO:0022857	transmembrane transporter activity	More	More
GO:0022890	inorganic cation transmembrane transport	More	More
GO:0022891	substrate-specific transmembrane transport	More	More
GO:0022892	substrate-specific transporter activity	More	More
GO:0023051	regulation of signaling	More	More
GO:0023052	signaling	More	More
GO:0023056	positive regulation of signaling	More	More
GO:0023057	negative regulation of signaling	More	More
GO:0023061	signal release	More	More
GO:0030001	metal ion transport	More	More
GO:0030054	cell junction	More	More
GO:0030111	regulation of Wnt receptor signaling pathwa	More	More
GO:0030154	cell differentiation	More	More
GO:0030155	regulation of cell adhesion	More	More
GO:0030165	PDZ domain binding	More	More
GO:0030182	neuron differentiation	More	More
GO:0030198	extracellular matrix organization	More	More
GO:0030199	collagen fibril organization	More	More
GO:0030326	embryonic limb morphogenesis	More	More
GO:0030334	regulation of cell migration	More	More
GO:0030425	dendrite	More	More
GO:0030510	regulation of BMP signaling pathway	More	More
GO:0030534	adult behavior	More	More
GO:0030594	neurotransmitter receptor activity	More	More
GO:0030672	synaptic vesicle membrane	More	More
GO:0030799	regulation of cyclic nucleotide metabolic pro	More	More
GO:0030801	positive regulation of cyclic nucleotide meta	More	More
GO:0030802	regulation of cyclic nucleotide biosynthetic	More	More
GO:0030804	positive regulation of cyclic nucleotide biosy	More	More
GO:0030808	regulation of nucleotide biosynthetic proces	More	More
GO:0030810	positive regulation of nucleotide biosynthesi	More	More
GO:0030814	regulation of cAMP metabolic process	More	More
GO:0030816	positive regulation of cAMP metabolic proces	More	More
GO:0030817	regulation of cAMP biosynthetic process	More	More

GO:0030819	positive regulation of cAMP biosynthetic process	More	More
GO:0030855	epithelial cell differentiation	More	More
GO:0031012	extracellular matrix	More	More
GO:0031128	developmental induction	More	More
GO:0031279	regulation of cyclase activity	More	More
GO:0031344	regulation of cell projection organization	More	More
GO:0031362	anchored to external side of plasma membrane	More	More
GO:0031644	regulation of neurological system process	More	More
GO:0032355	response to estradiol stimulus	More	More
GO:0032501	multicellular organismal process	More	More
GO:0032502	developmental process	More	More
GO:0032879	regulation of localization	More	More
GO:0033267	axon part	More	More
GO:0033555	multicellular organismal response to stress	More	More
GO:0033993	response to lipid	More	More
GO:0034220	ion transmembrane transport	More	More
GO:0034702	ion channel complex	More	More
GO:0034703	cation channel complex	More	More
GO:0034705	potassium channel complex	More	More
GO:0034765	regulation of ion transmembrane transport	More	More
GO:0035107	appendage morphogenesis	More	More
GO:0035108	limb morphogenesis	More	More
GO:0035113	embryonic appendage morphogenesis	More	More
GO:0035115	embryonic forelimb morphogenesis	More	More
GO:0035136	forelimb morphogenesis	More	More
GO:0035150	regulation of tube size	More	More
GO:0035239	tube morphogenesis	More	More
GO:0035725	sodium ion transmembrane transport	More	More
GO:0036342	post-anal tail morphogenesis	More	More
GO:0040011	locomotion	More	More
GO:0040012	regulation of locomotion	More	More
GO:0042127	regulation of cell proliferation	More	More
GO:0042383	sarcolemma	More	More
GO:0042391	regulation of membrane potential	More	More
GO:0042472	inner ear morphogenesis	More	More
GO:0042995	cell projection	More	More
GO:0043005	neuron projection	More	More
GO:0043025	neuronal cell body	More	More
GO:0043062	extracellular structure organization	More	More
GO:0043196	varicosity	More	More
GO:0043269	regulation of ion transport	More	More
GO:0043270	positive regulation of ion transport	More	More
GO:0043565	sequence-specific DNA binding	More	More
GO:0043627	response to estrogen stimulus	More	More
GO:0043679	axon terminus	More	More
GO:0044057	regulation of system process	More	More
GO:0044212	transcription regulatory region DNA binding	More	More
GO:0044297	cell body	More	More
GO:0044306	neuron projection terminus	More	More
GO:0044420	extracellular matrix part	More	More
GO:0044456	synapse part	More	More
GO:0044463	cell projection part	More	More
GO:0044699	single-organism process	More	More
GO:0044700	single organism signaling	More	More
GO:0044707	single-multicellular organism process	More	More
GO:0044708	single-organism behavior	More	More
GO:0044763	single-organism cellular process	More	More
GO:0044765	single-organism transport	More	More
GO:0044767	single-organism developmental process	More	More
GO:0045165	cell fate commitment	More	More
GO:0045168	cell-cell signaling involved in cell fate commitment	More	More
GO:0045202	synapse	More	More
GO:0045211	postsynaptic membrane	More	More
GO:0045595	regulation of cell differentiation	More	More
GO:0045596	negative regulation of cell differentiation	More	More
GO:0045597	positive regulation of cell differentiation	More	More
GO:0045664	regulation of neuron differentiation	More	More
GO:0045666	positive regulation of neuron differentiation	More	More
GO:0045761	regulation of adenylate cyclase activity	More	More
GO:0045785	positive regulation of cell adhesion	More	More
GO:0045981	positive regulation of nucleotide metabolic process	More	More
GO:0045995	regulation of embryonic development	More	More
GO:0046058	cAMP metabolic process	More	More
GO:0046873	metal ion transmembrane transporter activity	More	More
GO:0046883	regulation of hormone secretion	More	More
GO:0046903	secretion	More	More
GO:0048167	regulation of synaptic plasticity	More	More
GO:0048468	cell development	More	More
GO:0048484	enteric nervous system development	More	More
GO:0048485	sympathetic nervous system development	More	More
GO:0048513	organ development	More	More
GO:0048514	blood vessel morphogenesis	More	More
GO:0048545	response to steroid hormone stimulus	More	More
GO:0048562	embryonic organ morphogenesis	More	More
GO:0048598	embryonic morphogenesis	More	More
GO:0048608	reproductive structure development	More	More
GO:0048634	regulation of muscle organ development	More	More
GO:0048646	anatomical structure formation involved in morphogenesis	More	More
GO:0048663	neuron fate commitment	More	More
GO:0048665	neuron fate specification	More	More
GO:0048666	neuron development	More	More
GO:0048704	embryonic skeletal system morphogenesis	More	More
GO:0048705	skeletal system morphogenesis	More	More
GO:0048729	tissue morphogenesis	More	More
GO:0048731	system development	More	More
GO:0048732	gland development	More	More
GO:0048754	branching morphogenesis of an epithelial tube	More	More
GO:0048856	anatomical structure development	More	More
GO:0048869	cellular developmental process	More	More
GO:0048870	cell motility	More	More
GO:0050678	regulation of epithelial cell proliferation	More	More
GO:0050767	regulation of neurogenesis	More	More
GO:0050789	regulation of biological process	More	More

GO:0050793	regulation of developmental process	More	More
GO:0050794	regulation of cellular process	More	More
GO:0050796	regulation of insulin secretion	More	More
GO:0050804	regulation of synaptic transmission	More	More
GO:0050877	neurological system process	More	More
GO:0050880	regulation of blood vessel size	More	More
GO:0050890	cognition	More	More
GO:0051046	regulation of secretion	More	More
GO:0051049	regulation of transport	More	More
GO:0051093	negative regulation of developmental process	More	More
GO:0051094	positive regulation of developmental process	More	More
GO:0051216	cartilage development	More	More
GO:0051239	regulation of multicellular organismal process	More	More
GO:0051270	regulation of cellular component movement	More	More
GO:0051339	regulation of lyase activity	More	More
GO:0051480	cytosolic calcium ion homeostasis	More	More
GO:0051588	regulation of neurotransmitter transport	More	More
GO:0051893	regulation of focal adhesion assembly	More	More
GO:0051899	membrane depolarization	More	More
GO:0051952	regulation of amine transport	More	More
GO:0051960	regulation of nervous system development	More	More
GO:0051969	regulation of transmission of nerve impulse	More	More
GO:0055024	regulation of cardiac muscle tissue development	More	More
GO:0055074	calcium ion homeostasis	More	More
GO:0055085	transmembrane transport	More	More
GO:0060021	palate development	More	More
GO:0060065	uterus development	More	More
GO:0060284	regulation of cell development	More	More
GO:0060341	regulation of cellular localization	More	More
GO:0060536	cartilage morphogenesis	More	More
GO:0060688	regulation of morphogenesis of a branching	More	More
GO:0061061	muscle structure development	More	More
GO:0061138	morphogenesis of a branching epithelium	More	More
GO:0061448	connective tissue development	More	More
GO:0065007	biological regulation	More	More
GO:0070838	divalent metal ion transport	More	More
GO:0071495	cellular response to endogenous stimulus	More	More
GO:0071855	neuropeptide receptor binding	More	More
GO:0071868	cellular response to monoamine stimulus	More	More
GO:0071870	cellular response to catecholamine stimulus	More	More
GO:0072509	divalent inorganic cation transmembrane transport	More	More
GO:0072511	divalent inorganic cation transport	More	More
GO:0086010	membrane depolarization involved in regulation of ion transport	More	More
GO:0086012	membrane depolarization involved in regulation of ion transport	More	More
GO:0090087	regulation of peptide transport	More	More
GO:0090109	regulation of cell-substrate junction assembly	More	More
GO:0090257	regulation of muscle system process	More	More
GO:0090276	regulation of peptide hormone secretion	More	More
GO:0097060	synaptic membrane	More	More
GO:0097305	response to alcohol	More	More
GO:0097367	carbohydrate derivative binding	More	More
GO:0097458	neuron part	More	More
GO:0097485	neuron projection guidance	More	More
GO:1900371	regulation of purine nucleotide biosynthesis	More	More
GO:1900373	positive regulation of purine nucleotide biosynthesis	More	More
GO:1900542	regulation of purine nucleotide metabolic process	More	More
GO:1900544	positive regulation of purine nucleotide metabolic process	More	More
GO:1901681	sulfur compound binding	More	More
GO:1901861	regulation of muscle tissue development	More	More
GO:1901888	regulation of cell junction assembly	More	More
GO:2000026	regulation of multicellular organismal development	More	More
GO:2000027	regulation of organ morphogenesis	More	More
GO:2000145	regulation of cell motility	More	More
KEGG CALCIUM SIGNALING PATHWAY	Calcium signaling pathway	More	More
KEGG DILATED CARDIOMYOPATHY	Dilated cardiomyopathy	More	More
KEGG ECM RECEPTOR INTERACTION	ECM-receptor interaction	More	More
KEGG FOCAL ADHESION	Focal adhesion	More	More
KEGG REGULATION OF ACTIN CYTOSKELETON	Regulation of actin cytoskeleton	More	More
KEGG VASCULAR SMOOTH MUSCLE CONTRACTION	Vascular smooth muscle contraction	More	More
KEGG WNT SIGNALING PATHWAY	Wnt signaling pathway	More	More
PID INTEGRIN1 PATHWAY	Beta1 integrin cell surface interactions	More	More
REACTOME AMINE LIGAND BINDING	Genes involved in Amine ligand-binding receptor signaling	More	More
REACTOME AMYLOIDS	Genes involved in Amyloids	More	More
REACTOME AXON GUIDANCE	Genes involved in Axon guidance	More	More
REACTOME CELL CELL COMMUNICATION	Genes involved in Cell-Cell communication	More	More
REACTOME CELL JUNCTION ORGANIZATION	Genes involved in Cell junction organization	More	More
REACTOME CLASS B 2 SECRETIN FAMILY	Genes involved in Class B/2 (Secretin family) GPCR signaling	More	More
REACTOME COLLAGEN FORMATION	Genes involved in Collagen formation	More	More
REACTOME DEVELOPMENTAL BIOLOGY	Genes involved in Developmental Biology	More	More
REACTOME EXTRACELLULAR MATRIX	Genes involved in Extracellular matrix organization	More	More
REACTOME G ALPHA S SIGNALLING	Genes involved in G alpha (s) signalling events	More	More
REACTOME INTEGRATION OF ENERGY METABOLISM	Genes involved in Integration of energy metabolism	More	More
REACTOME NCAM SIGNALING FOR NEURONAL CELL-CELL INTERACTIONS	Genes involved in NCAM signaling for neuronal cell-cell interactions	More	More
REACTOME NEUROTRANSMITTER RECEPTOR SIGNALING	Genes involved in Neurotransmitter Receptor signaling	More	More
REACTOME OPIOID SIGNALLING	Genes involved in Opioid Signalling	More	More
REACTOME PHOSPHOLIPASE C MEDIATED SIGNALING	Genes involved in Phospholipase C-mediated signaling	More	More
REACTOME POTASSIUM CHANNELS	Genes involved in Potassium Channels	More	More
REACTOME REGULATION OF INSULIN SECRETION	Genes involved in Regulation of Insulin Secretion	More	More
REACTOME SIGNALLING BY NGF	Genes involved in Signalling by NGF	More	More
REACTOME TRANSPORT OF GLUCOSE AND OTHER SMALL MOLECULES	Genes involved in Transport of glucose and other small molecules	More	More
REACTOME TRANSPORT OF INORGANIC CATIONS	Genes involved in Transport of inorganic cations	More	More
REACTOME VOLTAGE GATED POTASSIUM CHANNELS	Genes involved in Voltage gated Potassium Channels	More	More
WNT SIGNALING	Genes related to Wnt-mediated signal transduction	More	More
GO:0001819	positive regulation of cytokine production	Less	NA
GO:0002707	negative regulation of lymphocyte mediated immunity	Less	NA
GO:0002710	negative regulation of T cell mediated immunity	Less	NA
GO:0032490	detection of molecule of bacterial origin	Less	NA
GO:0042035	regulation of cytokine biosynthetic process	Less	NA
GO:0042108	positive regulation of cytokine biosynthetic process	Less	NA
GO:0045069	regulation of viral genome replication	Less	NA
GO:0048525	negative regulation of viral process	Less	NA
GO:0050706	regulation of interleukin-1 beta secretion	Less	NA
GO:0050718	positive regulation of interleukin-1 beta secretion	Less	NA

KEGG_ALLOGRAFT_REJECTION	Allograft rejection	Less	NA
KEGG_CYTOSOLIC_DNA_SENSING_PATHWAY	Cytosolic DNA-sensing pathway	Less	NA
KEGG_TYPE_1_DIABETES_MELLITUS	Type 1 diabetes mellitus	Less	NA
KEGG_VIRAL_MYOCARDITIS	Viral myocarditis	Less	NA
PID_IL12_2PATHWAY	IL12-mediated signaling events	Less	NA
PID_IL12_STAT4PATHWAY	IL12 signaling mediated by STAT4	Less	NA
PID_P53DOWNSTREAMPATHWAY	Direct p53 effectors	Less	NA
REACTOME_APOPTOSIS	Genes involved in Apoptosis	Less	NA
REACTOME_COSTIMULATION_BY_THE_CD28_COMPLEX	Genes involved in Costimulation by the CD28 complex	Less	NA
GO:0001502	cartilage condensation	More	NA
GO:0001945	lymph vessel development	More	NA
GO:0001952	regulation of cell-matrix adhesion	More	NA
GO:0003148	outflow tract septum morphogenesis	More	NA
GO:0004993	serotonin receptor activity	More	NA
GO:0005179	hormone activity	More	NA
GO:0005184	neuropeptide hormone activity	More	NA
GO:0005234	extracellular-glutamate-gated ion channel activity	More	NA
GO:0005891	voltage-gated calcium channel complex	More	NA
GO:0006816	calcium ion transport	More	NA
GO:0006939	smooth muscle contraction	More	NA
GO:0007212	dopamine receptor signaling pathway	More	NA
GO:0007517	muscle organ development	More	NA
GO:0007605	sensory perception of sound	More	NA
GO:0008015	blood circulation	More	NA
GO:0008016	regulation of heart contraction	More	NA
GO:0008066	glutamate receptor activity	More	NA
GO:0009725	response to hormone stimulus	More	NA
GO:0010632	regulation of epithelial cell migration	More	NA
GO:0010721	negative regulation of cell development	More	NA
GO:0010976	positive regulation of neuron projection development	More	NA
GO:0014821	phasic smooth muscle contraction	More	NA
GO:0016849	phosphorus-oxygen lyase activity	More	NA
GO:0021781	glial cell fate commitment	More	NA
GO:0022898	regulation of transmembrane transporter activity	More	NA
GO:0030072	peptide hormone secretion	More	NA
GO:0030336	negative regulation of cell migration	More	NA
GO:0030424	axon	More	NA
GO:0030878	thyroid gland development	More	NA
GO:0032409	regulation of transporter activity	More	NA
GO:0032412	regulation of ion transmembrane transporter activity	More	NA
GO:0032844	regulation of homeostatic process	More	NA
GO:0032989	cellular component morphogenesis	More	NA
GO:0034199	activation of protein kinase A activity	More	NA
GO:0034329	cell junction assembly	More	NA
GO:0034762	regulation of transmembrane transport	More	NA
GO:0040013	negative regulation of locomotion	More	NA
GO:0042493	response to drug	More	NA
GO:0042693	muscle cell fate commitment	More	NA
GO:0042886	amide transport	More	NA
GO:0043266	regulation of potassium ion transport	More	NA
GO:0043271	negative regulation of ion transport	More	NA
GO:0046879	hormone secretion	More	NA
GO:0048265	response to pain	More	NA
GO:0048588	developmental cell growth	More	NA
GO:0048806	genitalia development	More	NA
GO:0050433	regulation of catecholamine secretion	More	NA
GO:0050954	sensory perception of mechanical stimulus	More	NA
GO:0051271	negative regulation of cellular component morphogenesis	More	NA
GO:0051924	regulation of calcium ion transport	More	NA
GO:0060023	soft palate development	More	NA
GO:0060037	pharyngeal system development	More	NA
GO:0060078	regulation of postsynaptic membrane potential	More	NA
GO:0060411	cardiac septum morphogenesis	More	NA
GO:0060420	regulation of heart growth	More	NA
GO:0070588	calcium ion transmembrane transport	More	NA
GO:0086001	regulation of cardiac muscle cell action potential	More	NA
GO:0086002	regulation of cardiac muscle cell action potential	More	NA
GO:0086009	membrane repolarization	More	NA
GO:0086011	membrane repolarization involved in regulation of heart rate	More	NA
GO:0086013	membrane repolarization involved in regulation of heart rate	More	NA
GO:0086014	regulation of atrial cardiac muscle cell action potential	More	NA
GO:0086036	regulation of cardiac muscle cell membrane potential	More	NA
GO:0090092	regulation of transmembrane receptor protein activity	More	NA
GO:1901700	response to oxygen-containing compound	More	NA
GO:2000021	regulation of ion homeostasis	More	NA
GO:2000146	negative regulation of cell motility	More	NA
REACTOME_DOWNSTREAM_SIGNALING	Genes involved in Downstream signaling of TGF-beta	More	NA
REACTOME_PLATELET_HOMEOSTASIS	Genes involved in Platelet homeostasis	More	NA
REACTOME_SIGNALING_BY_FGFR	Genes involved in Signaling by FGFR	More	NA
REACTOME_SIGNALING_BY_FGFR_IN_DISEASE	Genes involved in Signaling by FGFR in disease	More	NA

Significant PAM CpG	Cancer Type	Associated Gene
cg02706881	general kidney cancer	<i>C21orf123</i>
cg03562120	clear cell renal cell carcinoma	<i>WISP2</i>
cg04511534	both	<i>GGT6</i>
cg04598121	general kidney cancer	<i>PENK</i>
cg04988978	both	<i>MPO</i>
cg05379350	general kidney cancer	<i>GIT1</i>
cg06130787	general kidney cancer	<i>KLK10</i>
cg08749917	general kidney cancer	<i>RTP1</i>
cg10045881	clear cell renal cell carcinoma	<i>CHI3L2</i>
cg11098259	clear cell renal cell carcinoma	<i>AQP9</i>
cg12782180	general kidney cancer	<i>LEP</i>
cg12907644	general kidney cancer	<i>SAA2</i>
cg12939547	general kidney cancer	<i>VWA7</i>
cg13156411	general kidney cancer	<i>PTHR1</i>
cg14370448	clear cell renal cell carcinoma	<i>TBX6</i>
cg14391855	both	<i>RIN1</i>
cg14456683	general kidney cancer	<i>ZIC1</i>
cg15484375	both	<i>SAA1</i>
cg16592658	clear cell renal cell carcinoma	<i>EBI3</i>
cg17568996	general kidney cancer	<i>NFAM1</i>
cg18003231	general kidney cancer	<i>SLC25A18</i>
cg22628873	general kidney cancer	<i>GGT6</i>
cg22719623	general kidney cancer	<i>OPRM1</i>
cg23320056	general kidney cancer	<i>ARHGEF2</i>
cg26366091	clear cell renal cell carcinoma	<i>CHI3L2</i>
cg26514492	general kidney cancer	<i>GPR132</i>
cg26954174	clear cell renal cell carcinoma	<i>NOD2</i>