

Entrez ID ▼	Gene Symbol	Gene Name	Refseq mRNA	Refseq Protein (linked to MSKCC)	Ensembl Gene ID	UCSC Genomic Coordinates	GO Categories	Sources
25	ABL1	leukemia viral oncogene homolog 1	NM_007313, NM_005157	NP_009297.2, NP_005148.2	ENSG00000097007	chr9:132579527 - 132750891	adhesion;cellular_component;cytoplasm;cytoskeleton;DNA binding;DNA damage response, signal transduction resulting in induction of apoptosis;intracellular	Receptor, Futreal et al 2004, Mitelman 2000,
27	ABL2	leukemia viral oncogene homolog 2 (arg, Abelson-	NM_001100108, NM_007314	NP_001093578.1, NP_009298.1		chr1:177343475 - 177378802	cascade;magnesium ion binding;manganese ion binding;nucleotide binding;peptidyl-tyrosine phosphorylation;phosphoinositide 3-kinase complex;phosphoinositide 3-	Mitelman 2000, Protein Kinase, Tyrosine Kinase,
60	ACTB	actin, beta	NM_001101	NP_001092.1	ENSG00000075624	chr7:5533904 - 5535814	acetyltransferase complex;nucleotide binding;protein binding;sensory perception of sound;soluble fraction;structural constituent of cytoskeleton	Entrez Query:Oncogene
207	AKT1	viral oncogene homolog 1	NM_001014431	NP_005154.2	ENSG00000142208	chr14:104307722 - 104330025	metabolic process;cytoplasm;G-protein coupled receptor protein signaling pathway;germ cell development;glucose metabolic process;glucose	Androgen Receptor, EGFR1, Kit Receptor,
208	AKT2	viral oncogene homolog 2	NM_001626	NP_001617.1	ENSG00000105221	chr19:45431618 - 45463014	phosphorylation;protein binding;protein modification process;protein serine/threonine kinase activity;regulation of JNK cascade;transferase activity	et al 2004, Vogelstein and Kinzler 2004, Protein
302	ANXA2	annexin A2	NM_001002858, NM_004039	NP_001002858.1, NP_004030.1	ENSG00000182718	chr15:58427120 - 58477404	binding;phospholipase inhibitor activity;plasma membrane;skeletal development;soluble fraction	Stability, Entrez Query:Oncogene
369	ARAF	3611 viral oncogene homolog	NM_001654	NP_001645.1	ENSG00000078061	chrX:47307310 - 47315800	cascade;metal ion binding;nucleotide binding;protein amino acid phosphorylation;protein binding;protein modification process;protein	EGFR1, Entrez Query:Oncogene
387	RHOA	ras homolog gene family, member A	NM_001664	NP_001655.1	ENSG00000067560	chr3:49372645 - 49388026	activity;intracellular;magnesium ion binding;membrane;nucleotide binding;positive regulation of I-kappaB kinase/NF-kappaB cascade;positive regulation of NF-kappaB	Wnt, Stability, Tumor Suppressor, Entrez
388	RHOB	ras homolog gene family, member B	NM_004040	NP_004031.1	ENSG00000143878	chr2:20510707 - 20511298	membrane;endosome to lysosome transport;GTP binding;GTPase activity;intracellular;multicellular organismal development;negative regulation of	Tumor Suppressor, Entrez Query:Oncogene
389	RHOC	ras homolog gene family, member C	NM_175744	NP_786886.1	ENSG00000155366	chr1:113045684 - 113047944	regulation of I-kappaB kinase/NF-kappaB cascade;protein binding;signal transducer activity;small GTPase mediated signal transduction	Entrez Query:Oncogene
390	RND3	Rho family GTPase 3	NM_005168	NP_005159.1	ENSG00000115963	chr2:151034746 - 151052177	activity;intracellular;membrane;nucleotide binding;small GTPase mediated signal transduction	Tumor Suppressor, Entrez Query:Oncogene
466	ATF1	activating transcription factor 1	NM_005171	NP_005162.1	ENSG00000123268	chr12:49460195 - 49499829	nucleus;protein dimerization activity;regulation of transcription, DNA-dependent;sequence-specific DNA binding;transcription;transcription factor activity	Mitelman 2000, Entrez Query:Oncogene,
558	AXL	AXL receptor tyrosine kinase	NM_001699, NM_021913	NP_001690.2, NP_068713.2	ENSG00000167601	chr19:46417137 - 46457649	amino acid phosphorylation;receptor activity;regulation of progression through cell cycle;signal transduction;transferase activity;transmembrane receptor protein	Kinase, Entrez Query:Oncogene
572	BAD	BCL2-antagonist of cell death	NM_004322	NP_116784.1	ENSG00000002330	chr11:63794256 - 63808416	homeostasis;induction of apoptosis by extracellular signals;mitochondrial outer membrane;mitochondrion;positive regulation of B cell differentiation;positive	Protein Kinase, Entrez Query:Oncogene
573	BAG1	BCL2-associated athanogene	NM_004323	NP_004314.4	ENSG00000107262	chr9:33245216 - 33254672	transduction;cytoplasm;nucleus;protein binding;protein folding;protein modification process;receptor signaling protein activity	Androgen Receptor, Entrez Query:Oncogene
581	BAX	BCL2-associated X protein	NM_004324, NM_138764,	NP_004315.1, NP_620119.1,	ENSG00000087088	chr19:54149997 - 54156166	proliferation;BH3 domain binding;caspase activation;caspase activation via cytochrome c;cell cycle;cellular_component;cleavage of	Vogelstein and Kinzler 2004, Tumor Suppressor,
595	CCND1	cyclin D1	NM_053056	NP_444284.1	ENSG00000110092	chr11:69165262 - 69175231	holoenzyme complex;cyclin-dependent protein kinase regulator activity;cytosol;fat cell differentiation;G1/S transition of mitotic cell cycle;intracellular;nucleus;protein	TGFBR, Futreal et al 2004, Hahn and Weinberg 2002,
596	BCL2	B-cell CLL/lymphoma 2	NM_000633, NM_000657	NP_000624.2, NP_000648.2	ENSG00000171791	chr18:58946837 - 59136879	virus;endoplasmic reticulum;humoral immune response;integral to membrane;membrane;mitochondrial outer membrane;mitochondrion;negative	Mitelman 2000, Vogelstein and Kinzler
602	BCL3	B-cell CLL/lymphoma 3	NM_005178	NP_005169.2	ENSG00000069399	chr19:49943911 - 49954712	damage response, signal transduction by p53 class mediator resulting in induction of apoptosis;extracellular matrix organization and biogenesis;follicular dendritic cell	et al 2004, Mitelman 2000, Tumor Suppressor,
604	BCL6	B-cell CLL/lymphoma 6 (zinc finger protein 51)	NM_001706	NP_001697.2	ENSG00000113916	chr3:188922939 - 188934175	morphogenesis;chromatin binding;DNA binding;erythrocyte development;germinal center formation;intracellular;metal ion binding;negative regulation of B cell	Mitelman 2000, Vogelstein and Kinzler
613	BCR	breakpoint cluster region	NM_004327, NM_021574	NP_004318.3, NP_067585.2	ENSG00000186716	chr22:21853147 - 21987709	activity;intracellular;intracellular signaling cascade;kinase activity;protein amino acid phosphorylation;protein serine/threonine kinase activity;regulation of Rho protein	Mitelman 2000, Tumor Suppressor, Entrez
648	BMI1	BMI1 polycomb ring finger oncogene	NM_005180	NP_005171.4	ENSG00000168283	chr10:22645352 - 22658477	chromatin modification;metal ion binding;nucleus;protein binding;regulation of transcription, DNA-dependent;segment specification;transcription;zinc ion binding	Tumor Suppressor, Entrez Query:Oncogene
672	BRCA1	breast cancer 1, early onset	NM_007300, NM_007303,	NP_009231.1, NP_009234.1,	ENSG00000012048	chr17:38451220 - 38529639	complex;cell cycle;cell cycle checkpoint;cellular_component;chromosome segregation;DNA binding;DNA damage response, signal transduction by p53 class	and Weinberg 2002, Vogelstein and Kinzler
673	BRAF	viral oncogene homolog B1	NM_004333	NP_004324.2	ENSG00000157764	chr7:140080865 - 140270972	cascade;metal ion binding;nucleotide binding;organ morphogenesis;plasma membrane;protein amino acid phosphorylation;protein binding;protein	and Weinberg 2002, Vogelstein and Kinzler
718	C3	complement component 3	NM_000064	NP_000055.2	ENSG00000125730	chr19:6628892 - 6671600	pathway;endopeptidase inhibitor activity;extracellular region;G-protein coupled receptor protein signaling pathway;inflammatory response;positive regulation of	Entrez Query:Oncogene
727	C5	complement component 5	NM_001735	NP_001726.2	ENSG00000106804	chr9:122754837 - 122852345	activation;complement activation, alternative pathway;complement activation, classical pathway;cytolysis;endopeptidase inhibitor activity;extracellular	Entrez Query:Oncogene

768	CA9	carbonic anhydrase IX	NM_001216	NP_001207.2	ENSG00000107159	chr9:35663956 - 35671022	activity;membrane;metal ion binding;morphogenesis of an epithelium;nucleus;one-carbon compound metabolic process;secretion;zinc ion binding	Tumor Suppressor, Entrez Query:Oncogene
841	CASP8	related cysteine peptidase	NM_033358, NM_033355,	NP_203522.1, NP_203519.1,	ENSG00000064012	chr2:201831199 - 201859562	activity;cytoskeleton;identical protein binding;mitochondrion;positive regulation of kappaB kinase/NF-kappaB cascade;protein binding;proteolysis;regulation of	Stability, Tumor Suppressor, Entrez
860	RUNX2	runt-related transcription factor 2	NM_001015051, NM_001024630	NP_001015051.2, NP_001019801.2	ENSG00000124813	chr6:45404037 - 45623020	differentiation;protein binding;regulation of transcription, DNA-dependent;RNA polymerase II transcription factor activity;transcription;transcription factor	TGFBR, Wnt, Entrez Query:Oncogene
861	RUNX1	transcription factor 1 (acute myeloid leukemia)	NM_001001890, NM_001122607	NP_001001890.1, NP_001116079.1	ENSG00000159216	chr21:35086301 - 35343066	binding;hemopoiesis;molecular_function;multicellular organismal development;nucleus;positive regulation of angiogenesis;positive regulation of	Futreal et al 2004, Mitelman 2000,
864	RUNX3	runt-related transcription factor 3	NM_001031680, NM_004350	NP_001026850.1, NP_004341.1	ENSG00000020633	chr1:25101199 - 25128946	epithelial cell proliferation;negative regulation of progression through cell cycle;nucleus;protein binding;regulation of transcription, DNA-	Tumor Suppressor, Entrez Query:Oncogene
867	CBL	ecotropic retroviral transforming sequence	NM_005188	NP_005179.2	ENSG00000110395	chr11:118582337 - 118675701	growth factor receptor signaling pathway;ligase activity;nucleus;plasma membrane;positive regulation of receptor mediated endocytosis;protein	Futreal et al 2004, Mitelman 2000, Entrez
868	CBLB	ecotropic retroviral transforming sequence b	NM_170662	NP_733762.2	ENSG00000114423	chr3:106860503 - 107069111	response;intracellular signaling cascade;ligase activity;negative regulation of T cell receptor signaling pathway;NLS-bearing substrate import into	EGFR1, Kit Receptor, Entrez Query:Oncogene
894	CCND2	cyclin D2	NM_001759	NP_001750.1	ENSG00000118971	chr12:4253467 - 4279436	cell cycle;cell division;nucleus;protein binding;regulation of progression through cell cycle	and Weinberg 2002, Mitelman 2000, Stability,
896	CCND3	cyclin D3	NM_001760	NP_001751.1	ENSG00000112576	chr6:42011655 - 42017365	cell cycle;cell division;nucleus;protein binding;regulation of progression through cell cycle	and Weinberg 2002, Mitelman 2000, Tumor
957	ENTPD5	triphosphate diphosphohydrolase 5	NM_001249	NP_001240.1	ENSG00000187097	chr14:73503383 - 73524558	calcium ion binding;endoplasmic reticulum;hydrolase activity;integral to membrane;magnesium ion binding;membrane;nucleoside-diphosphatase activity	Entrez Query:Oncogene
988	CDC5L	CDC5 cell division cycle 5-like (S. pombe)	NM_001253	NP_001244.1	ENSG00000096401	chr6:44463538 - 44522426	cell cycle;DNA binding;mRNA processing;nucleus;protein binding;regulation of transcription, DNA-dependent;RNA binding;RNA splicing;spliceosome	Entrez Query:Oncogene
993	CDC25A	cell division cycle 25 homolog A (S. pombe)	NM_201567, NM_001789	NP_963861.1, NP_001780.2	ENSG00000164045	chr3:48175438 - 48204441	activity;intracellular;mitosis;protein amino acid dephosphorylation;protein binding;protein tyrosine phosphatase activity;regulation of cyclin-dependent	Protein Kinase, Stability, Entrez Query:Oncogene
998	CDC42	(GTP binding protein, 25kDa)	NM_044472, NM_001039802	NP_426359.1, NP_001782.1	ENSG00000070831	chr1:22277558 - 22290597	division;cytoplasm;establishment and/or maintenance of cell polarity;filopodium;G1 phase;GTP binding;GTPase activity;intracellular;macrophage	EGFR1, Entrez Query:Oncogene
1015	CDH17	cadherin 17, LI cadherin (liver-intestine)	NM_004063	NP_004054.3	ENSG00000079112	chr8:95209643 - 95276089	cell adhesion;integral to plasma membrane;membrane;membrane fraction;oligopeptide transport;protein binding;proton-dependent oligopeptide	Entrez Query:Oncogene
1029	CDKN2A	inhibitor 2A (melanoma, p16, inhibits CDK4)	NM_058197, NM_058195	NP_478104.2, NP_478102.1	ENSG00000147889	chr9:21961001 - 21984453	checkpoint;cellular_component;cyclin-dependent protein kinase inhibitor activity;cytoplasm;DNA binding;epidermis development;negative regulation of cell	and Weinberg 2002, Mitelman 2000,
1044	CDX1	caudal type homeobox transcription factor 1	NM_001804	NP_001795.2	ENSG00000113722	chr5:149526632 - 149543436	transcription, DNA-dependent;sequence-specific DNA binding;transcription factor activity	Wnt, Entrez Query:Oncogene
1045	CDX2	caudal type homeobox transcription factor 2	NM_001265	NP_001256.2	ENSG00000165556	chr13:27435251 - 27441143	nuclear chromosome;nucleus;pattern specification process;placenta development;regulation of transcription, DNA-dependent;sequence-specific DNA	Mitelman 2000, Entrez Query:Oncogene,
1051	CEBPB	CCAAT/enhancer binding protein (C/EBP), beta	NM_005194	NP_005185.2	ENSG00000172216	chr20:48240977 - 48242015	development;fat cell differentiation;immune response;induction of apoptosis;inflammatory response;neuron differentiation;nucleus;positive regulation	EGFR1, Entrez Query:Oncogene
1163	CKS1B	CDC28 protein kinase regulatory subunit 1B	NM_001826	NP_001817.1	ENSG00000173207	chr1:153213845 - 153217877	activity;kinase activity;protein binding;regulation of cyclin-dependent protein kinase activity	Tumor Suppressor, Entrez Query:Oncogene
1236	CCR7	chemokine (C-C motif) receptor 7	NM_001838	NP_001829.1	ENSG00000126353	chr17:35964519 - 35975187	concentration;G-protein coupled receptor protein signaling pathway;inflammatory response;integral to plasma membrane;plasma membrane;receptor	Entrez Query:Oncogene
1316	KLF6	Kruppel-like factor 6	NM_001300	NP_001291.3	ENSG00000067082	chr10:3811730 - 3817206	binding;intracellular;metal ion binding;molecular_function;nucleic acid binding;nucleus;regulation of transcription, DNA-	Stability, Tumor Suppressor, Entrez
1326	MAP3K8	protein kinase kinase kinase 8	NM_005204	NP_005195.2	ENSG00000107968	chr10:30767873 - 30789771	binding;protein kinase activity;protein serine/threonine kinase activity;transferase activity	Protein Kinase, Stability, Entrez Query:Oncogene
1398	CRK	oncogene homolog (avian)	NM_016823, NM_005206	NP_058431.2, NP_005197.3	ENSG00000167193	chr17:1273556 - 1306161	signaling cascade;nucleus;protein binding;protein phosphorylated amino acid binding;regulation of transcription from RNA polymerase II promoter;SH2 domain	Stability, Tumor Suppressor, Entrez
1399	CRKL	oncogene homolog (avian)-like	NM_005207	NP_005198.1	ENSG00000099942	chr22:19602222 - 19634133	development;intracellular signaling cascade;JNK cascade;organ morphogenesis;parathyroid gland development;pattern specification	Protein Kinase, Entrez Query:Oncogene
1436	CSF1R	1 receptor, formerly McDonough feline	NM_005211	NP_005202.2	ENSG00000182578	chr5:149413824 - 149446183	stimulating factor receptor activity;multicellular organismal development;nucleotide binding;plasma membrane;protein amino acid phosphorylation;protein	Tyrosine Kinase, Entrez Query:Oncogene
1499	CTNNB1	associated protein), beta 1, 88kDa	NM_001904	NP_001895.1	ENSG00000168036	chr3:41240563 - 41255837	pathway;apical part of cell;basolateral plasma membrane;beta-catenin destruction complex;binding;bone resorption;cadherin binding;cell fate determination;cell fate	TGFBR, Wnt, Futreal et al 2004, Mitelman 2000,
1540	CYLD	cylindromatosis (turban tumor syndrome)	NM_001042412, NM_015247	NP_001035877.1, NP_056062.1	ENSG00000083799	chr16:49341110 - 49387920	regulation of progression through cell cycle;ribosome;structural constituent of ribosome;translation;ubiquitin cycle;ubiquitin thiolesterase activity;ubiquitin-	et al 2004, Vogelstein and Kinzler 2004, Tumor

1591	CYP24A1	24, subfamily A, polypeptide 1	NM_001128915, NM_000782	NP_001122387.1, NP_000773.2	ENSG00000019186	chr20:52207124 - 52223525	hydroxycholecalciferol-24-hydroxylase activity;cellular_component;electron transport;heme binding;iron ion binding;metal ion	Entrez Query:Oncogene
1602	DACH1	dachshund homolog 1 (Drosophila)	NM_004392, NM_080759	NP_004383.2, NP_542937.1	ENSG00000165659	chr13:70912787 - 71338908	DNA binding;multicellular organismal development;nucleus;protein binding;regulation of transcription, DNA-dependent;transcription	Entrez Query:Oncogene
1612	DAPK1	death-associated protein kinase 1	NM_004938	NP_004929.2	ENSG00000196730	chr9:89303812 - 89512099	by extracellular signals;kinase activity;nucleotide binding;protein amino acid phosphorylation;protein kinase cascade;protein serine/threonine kinase	Tumor Suppressor, Entrez Query:Oncogene
1616	DAXX	death-associated protein 6	NM_001350	NP_001341.1	ENSG00000007565	chr6:33394497 - 33397680	pathway;apoptosis;cytoplasm;heat shock protein binding;identical protein binding;induction of apoptosis via death domain receptors;negative regulation of	TGFBR, Entrez Query:Oncogene
1643	DDB2	damage-specific DNA binding protein 2, 48kDa	NM_000107	NP_000098.1	ENSG00000134574	chr11:47193263 - 47216976	damaged DNA binding;nucleotide-excision repair;nucleus;protein binding	Vogelstein and Kinzler 2004, Stability, Entrez
1649	DDIT3	DNA-damage-inducible transcript 3	NM_004083	NP_004074.2	ENSG00000175197	chr12:56196858 - 56197456	polymerase II promoter;nucleus;protein dimerization activity;regulation of apoptosis;regulation of cell redox homeostasis;regulation of progression through	Mitelman 2000, Stability, Entrez Query:Oncogene,
1656	DDX6	DEAD (Asp-Glu-Ala-Asp) box polypeptide 6	NM_004397	NP_004388.2	ENSG00000110367	chr11:118130630 - 118162170	ATP binding;ATP-dependent helicase activity;hydrolase activity;nucleotide binding;nucleus;protein binding;RNA binding;RNA helicase activity	Mitelman 2000, Entrez Query:Oncogene,
1672	DEFB1	defensin, beta 1	NM_005218	NP_005209.1	ENSG00000164825	chr8:6715612 - 6722789	chemotaxis;defense response to bacterium;extracellular region;G-protein coupled receptor protein signaling pathway;innate immune response	Entrez Query:Oncogene
1749	DLX5	distal-less homeobox 5	NM_005221	NP_005212.1	ENSG00000105880	chr7:96487983 - 96491871	organismal development;nervous system development;nucleus;protein binding;regulation of transcription, DNA-dependent;sequence-specific DNA	Entrez Query:Oncogene
1789	DNMT3B	DNA (cytosine-5-)-methyltransferase 3 beta	NM_175849, NM_006892	NP_787045.1, NP_008823.1	ENSG00000088305	chr20:30831790 - 30859370	ion binding;methyltransferase activity;nucleus;protein binding;site-specific DNA-methyltransferase (cytosine-specific) activity;transferase activity;zinc ion binding	Tumor Suppressor, Entrez Query:Oncogene
1894	ECT2	transforming sequence 2 oncogene	NM_018098	NP_060568.3	ENSG00000114346	chr3:173955014 - 174020721	cascade;positive regulation of I-kappaB kinase/NF-kappaB cascade;protein binding;regulation of Rho protein signal transduction;Rho guanyl-nucleotide	Tumor Suppressor, Entrez Query:Oncogene
1908	EDN3	endothelin 3	NM_207032, NM_207034	NP_996915.1, NP_996917.1	ENSG00000124205	chr20:57309262 - 57332909	region;multicellular organismal development;pathogenesis;receptor binding;regulation of vasoconstriction;sensory perception of sound;signal	Entrez Query:Oncogene
1917	EEF1A2	elongation factor 1 alpha 2	NM_001958	NP_001949.1	ENSG00000101210	chr20:61590094 - 61599560	binding;GTPase activity;nucleotide binding;nucleus;protein binding;translation elongation factor activity;translational elongation	Entrez Query:Oncogene
1942	EFNA1	ephrin-A1	NM_004428, NM_182685	NP_004419.2, NP_872626.1	ENSG00000169242	chr1:153367077 - 153373167	cell-cell signaling;ephrin receptor binding;GPI anchor binding;integral to plasma membrane;membrane	Entrez Query:Oncogene
1956	EGFR	receptor (erythroblastic leukemia viral (v-erb-b)	NM_005228, NM_201283,	NP_005219.2, NP_958440.1,	ENSG00000146648	chr7:55054464 - 55240804	phospholipase A2 activation;cell cycle;cell proliferation;cell surface receptor linked signal transduction;cell-cell adhesion;cytoplasm;double-stranded DNA	EGFR1, Futreal et al 2004, Vogelstein and Kinzler
1958	EGR1	early growth response 1	NM_001964	NP_001955.1	ENSG00000120738	chr5:137829349 - 137831669	transcription;regulation of transcription, DNA-dependent;T cell differentiation;transcription;transcription factor activity;zinc ion binding	Tumor Suppressor, Entrez Query:Oncogene
1969	EPHA2	EPH receptor A2	NM_004431	NP_004422.2	ENSG00000142627	chr1:16324296 - 16355014	plasma membrane;membrane;multicellular organismal development;neuron differentiation;nucleotide binding;protein amino acid phosphorylation;protein-	Kinase, Entrez Query:Oncogene
1991	ELA2	elastase 2, neutrophil	NM_001972	NP_001963.1	ENSG00000197561	chr19:803328 - 807164	activity;extracellular region;leukocyte migration;negative regulation of chemokine biosynthetic process;negative regulation of chemotaxis;negative regulation of	Entrez Query:Oncogene
2002	ELK1	ELK1, member of ETS oncogene family	NM_005229, NM_001114123	NP_005220.2, NP_001107595.1	ENSG00000126767	chrX:47381171 - 47385784	promoter;protein binding;regulation of transcription, DNA-dependent;sequence-specific DNA binding;transcription;transcription factor activity	EGFR1, ID, Entrez Query:Oncogene
2005	ELK4	protein (SRF accessory protein 1)	NM_021795, NM_001973	NP_068567.1, NP_001964.2	ENSG00000158711	chr1:203852296 - 203859633	specific DNA binding;transcription cofactor activity;transcription factor activity;transcription from RNA polymerase II promoter	EGFR1, ID, Entrez Query:Oncogene
2017	CTTN	cortactin	NM_138565, NM_005231	NP_612632.1, NP_005222.2	ENSG00000085733	chr11:69931051 - 69958916	cell cortex;cytoplasm;cytoskeleton;lamellipodium;protein binding;ruffle;soluble fraction	Entrez Query:Oncogene
2041	EPHA1	EPH receptor A1	NM_005232	NP_005223.4	ENSG00000146904	chr7:142798671 - 142816020	membrane;membrane;nucleotide binding;protein amino acid phosphorylation;receptor activity;signal transduction;transferase	Kinase, Entrez Query:Oncogene
2063	NR2F6	subfamily 2, group F, member 6	NM_005234	NP_005225.2	ENSG00000160113	chr19:17204160 - 17217029	of circadian clock by photoperiod;metal ion binding;neuron development;nucleus;regulation of transcription, DNA-dependent;sequence-specific	Entrez Query:Oncogene
2064	ERBB2	leukemia viral oncogene homolog 2,	NM_001005862, NM_004448	NP_001005862.1, NP_004439.2	ENSG00000141736	chr17:35110017 - 35137823	factor receptor activity;ErbB-3 class receptor binding;extracellular region;heart development;identical protein binding;integral to membrane;mammary gland	Futreal et al 2004, Vogelstein and Kinzler
2065	ERBB3	leukemia viral oncogene homolog 3 (avian)	NM_001982, NM_001005915	NP_001973.2, NP_001005915.1	ENSG00000065361	chr12:54760351 - 54782106	activity;heart development;integral to plasma membrane;lateral plasma membrane;membrane;nucleotide binding;peripheral nervous system	Tyrosine Kinase, Entrez Query:Oncogene
2066	ERBB4	leukemia viral oncogene homolog 4 (avian)	NM_005235, NM_001042599	NP_005226.1, NP_001036064.1	ENSG00000178568	chr2:211956584 - 213111499	organismal development;nucleotide binding;protein amino acid phosphorylation;protein binding;protein heterodimerization activity;receptor	Kinase, Entrez Query:Oncogene
2069	EREG	epiregulin	NM_001432	NP_001423.1	ENSG00000124882	chr4:75449889 - 75469389	pathway;epidermal growth factor receptor binding;epidermal growth factor receptor signaling pathway;extracellular space;female meiosis;growth factor	Protein Kinase, Entrez Query:Oncogene

2078	ERG	virus E26 oncogene homolog (avian)	NM_182918, NM_004449	NP_891548.1, NP_004440.1	ENSG00000157554	chr21:38677194 - 38792174	phosphorylation;protein binding;regulation of transcription, DNA-dependent;sequence-specific DNA binding;signal transducer activity;signal	Mitelman 2000, Entrez Query:Oncogene,
2113	ETS1	virus E26 oncogene homolog 1 (avian)	NM_005238	NP_005229.1	ENSG00000134954	chr11:127837465 - 127897099	regulation of erythrocyte differentiation;regulation of transcription, DNA-dependent;sequence-specific DNA binding;transcription;transcription factor	TGFBR, Mitelman 2000, Entrez Query:Oncogene
2114	ETS2	virus E26 oncogene homolog 2 (avian)	NM_005239	NP_005230.1	ENSG00000157557	chr21:39103828 - 39116683	nucleus;regulation of transcription, DNA-dependent;sequence-specific DNA binding;skeletal development;transcription factor activity	Tumor Suppressor, Entrez Query:Oncogene
2118	ETV4	enhancer binding protein, E1AF)	NM_001079675	NP_001977.1	ENSG00000175832	chr17:38961412 - 38978511	transcription;regulation of transcription, DNA-dependent;sequence-specific DNA binding;transcription;transcription factor activity;transcriptional activator activity	Mitelman 2000, Entrez Query:Oncogene,
2120	ETV6	ets variant gene 6 (TEL oncogene)	NM_001987	NP_001978.1	ENSG00000139083	chr12:11694328 - 11935247	cell differentiation;nucleus;protein binding;regulation of transcription, DNA-dependent;sequence-specific DNA binding;transcription;transcription factor activity	Mitelman 2000, Stability, Entrez Query:Oncogene,
2122	EVI1	ecotropic viral integration site 1	NM_005241, NM_001105077	NP_005232.2, NP_001098547.2	ENSG00000085276	chr3:170285390 - 170345481	binding;molecular_function;multicellular organismal development;nucleic acid binding;nucleus;positive regulation of transcription from RNA polymerase II	Mitelman 2000, Vogelstein and Kinzler
2130	EWSR1	Ewing sarcoma breakpoint region 1	NM_005243, NM_013986	NP_005234.1, NP_053733.1	ENSG00000182944	chr22:27994325 - 28026151	binding;nucleus;regulation of transcription, DNA-dependent;RNA binding;transcription;zinc ion binding	Mitelman 2000, Vogelstein and Kinzler
2146	EZH2	enhancer of zeste homolog 2 (Drosophila)	NM_004456, NM_152998	NP_004447.2, NP_694543.1	ENSG00000106462	chr7:148135670 - 148175323	architecture;histone methyltransferase activity;nucleus;protein binding;regulation of transcription, DNA-dependent;transcription	Suppressor, Entrez Query:Oncogene
2152	F3	(thromboplastin, tissue factor)	NM_001993	NP_001984.1	ENSG00000117525	chr1:94768603 - 94779780	blood coagulation;immune response;integral to membrane;plasma membrane;transmembrane receptor activity	Tumor Suppressor, Entrez Query:Oncogene
2194	FASN	fatty acid synthase	NM_004104	NP_004095.4	ENSG00000169710	chr17:77630307 - 77647610	protein] reductase activity;3-oxoacyl-[acyl-carrier-protein] synthase activity;acyl-ACP thioesterase activity;catalytic activity;cofactor binding;enoyl-[acyl-carrier-protein]	Entrez Query:Oncogene
2241	FER	tyrosine kinase (phosphoprotein NCP94)	NM_005246	NP_005237.2	ENSG00000151422	chr5:108161782 - 108551175	binding;nucleus;protein amino acid autophosphorylation;protein binding;protein-tyrosine kinase activity;transferase activity	Tyrosine Kinase, Entrez Query:Oncogene
2242	FES	feline sarcoma oncogene	NM_002005	NP_001996.1	ENSG00000182511	chr15:89229279 - 89239792	development;nucleotide binding;protein amino acid phosphorylation;protein-tyrosine kinase activity;transferase activity	and Kinzler 2004, Protein Kinase, Tyrosine Kinase,
2248	FGF3	3 (murine mammary tumor virus integration	NM_005247	NP_005238.1	ENSG00000186895	chr11:69334253 - 69342638	region;extracellular space;growth factor activity;induction of an organ;regulation of progression through cell cycle;signal transduction	Entrez Query:Oncogene
2249	FGF4	4 (heparin secretory transforming protein 1,	NM_002007	NP_001998.1	ENSG00000075388	chr11:69297257 - 69299033	morphogenesis;extracellular region;growth factor activity;heparin binding;mitosis;negative regulation of apoptosis;odontogenesis (sensu	Entrez Query:Oncogene
2250	FGF5	fibroblast growth factor 5	NM_033143, NM_004464	NP_149134.1, NP_004455.2	ENSG00000138675	chr4:81407002 - 81426850	receptor signaling pathway;growth factor activity;nervous system development;regulation of progression through cell cycle	Entrez Query:Oncogene
2260	FGFR1	receptor 1 (fms-related tyrosine kinase 2,	NM_023105, NM_023110,	NP_075593.1, NP_075598.2,	ENSG00000077782	chr8:38390302 - 38434121	factor receptor signaling pathway;heparin binding;integral to plasma membrane;MAPKKK cascade;membrane;membrane fraction;nucleotide	Mitelman 2000, Vogelstein and Kinzler
2263	FGFR2	receptor 2 (bacteria-expressed kinase,	NM_000141, NM_022970	NP_000132.3, NP_075259.4	ENSG00000066468	chr10:123229360 - 123343321	activity;heparin binding;integral to membrane;membrane;nucleotide binding;protein amino acid phosphorylation;protein binding;protein-tyrosine kinase	Vogelstein and Kinzler 2004, Protein Kinase,
2268	FGR	sarcoma viral (v-fgr) oncogene homolog	NM_001042729	NP_005239.1	ENSG00000000938	chr1:27812011 - 27823014	phosphorylation;protein-tyrosine kinase activity;response to virus;transferase activity	Kinase, Tyrosine Kinase, Entrez Query:Oncogene
2290	FOXP1	forkhead box G1B	NM_005249	NP_005240.3	ENSG00000176165	chr14:28306236 - 28307706	transcription, DNA-dependent;sequence-specific DNA binding;transcription;transcription factor activity	TGFBR, Entrez Query:Oncogene
2313	FLI1	Friend leukemia virus integration 1	NM_002017	NP_002008.2	ENSG00000151702	chr11:128069363 - 128186093	DNA-dependent;sequence-specific DNA binding;transcription;transcription factor activity	Mitelman 2000, Tumor Suppressor, Entrez
2321	FLT1	kinase 1 (vascular endothelial growth	NM_002019	NP_002010.2	ENSG00000102755	chr13:27775303 - 27966980	binding;integral to plasma membrane;membrane;multicellular organismal development;nucleotide binding;patterning of blood vessels;positive regulation of	Stability, Tyrosine Kinase, Entrez Query:Oncogene
2353	FOS	osteosarcoma viral oncogene homolog	NM_005252	NP_005243.1	ENSG00000170345	chr14:74815438 - 74817880	development;nucleus;protein dimerization activity;regulation of transcription from RNA polymerase II promoter;sequence-specific DNA binding;specific RNA	EGFR1, TGFBR, Stability, Entrez Query:Oncogene
2354	FOSB	osteosarcoma viral oncogene homolog B	NM_006732, NM_001114171	NP_006723.2, NP_001107643.1	ENSG00000125740	chr19:50663684 - 50668110	from RNA polymerase II promoter;nucleus;protein dimerization activity;regulation of progression through cell cycle;regulation of transcription, DNA-	TGFBR, Entrez Query:Oncogene
2521	FUS	t(12;16) in malignant liposarcoma)	NM_004960	NP_004951.1	ENSG00000089280	chr16:31099036 - 31110260	binding;molecular_function;nucleic acid binding;nucleotide binding;nucleus;protein binding;RNA binding;zinc ion binding	Mitelman 2000, Entrez Query:Oncogene,
2534	FYN	FYN oncogene related to SRC, FGR, YES	NM_153048, NM_153047	NP_694593.1, NP_694592.1	ENSG00000010810	chr6:112089634 - 112147947	cascade;learning;manganese ion binding;metal ion binding;multicellular organismal development;nucleotide binding;protein amino acid phosphorylation;protein kinase	Receptor, Protein Kinase, Tyrosine Kinase, Entrez
2621	GAS6	growth arrest-specific 6	NM_000820	NP_000811.1	ENSG00000183087	chr13:113547049 - 113590106	calcium ion binding;cell proliferation;extracellular region;receptor binding;regulation of cell growth;signal transduction	Stability, Entrez Query:Oncogene
2668	GDNF	glial cell derived neurotrophic factor	NM_199231, NM_199234	NP_954701.1, NP_954704.1	ENSG00000168621	chr5:37851509 - 37870655	activity;nervous system development;neural crest cell migration;neurite development;signal transduction	Entrez Query:Oncogene

2672	GF1	growth factor independent 1	NM_001127215, NM_001127216	NP_001120687.1, NP_001120688.1	ENSG00000162676	chr1:92714173 - 92721632	specific transcription in mitotic cell cycle;inner ear morphogenesis;intracellular;mechanosensory behavior;metal ion binding;negative	Stability, Entrez Query:Oncogene
2735	GLI1	oncogene homolog 1 (zinc finger protein)	NM_005269	NP_005260.1	ENSG00000111087	chr12:56143741 - 56152111	binding;dorsal/ventral pattern formation;epidermal cell differentiation;intracellular;lung development;metal ion binding;microtubule	Kinzler 2004, Entrez Query:Oncogene
2736	GLI2	GLI-Kruppel family member GLI2	NM_005270	NP_005261.2	ENSG00000074047	chr2:121271366 - 121464721	cortex morphogenesis;developmental growth;embryonic gut development;floor plate formation;heart development;hindbrain development;hindgut	Entrez Query:Oncogene
2737	GLI3	member GLI3 (Greig cephalopolysyndactyly)	NM_000168	NP_000159.3	ENSG00000106571	chr7:41970452 - 42229377	binding;cytoplasm;developmental growth;embryonic gut morphogenesis;embryonic limb morphogenesis;embryonic morphogenesis;forebrain development;heart	Entrez Query:Oncogene
2738	GLI4	GLI-Kruppel family member GLI4	NM_138465	NP_612474.1	ENSG00000181638	chr8:144422941 - 144430349	biological_process;DNA binding;intracellular;metal ion binding;molecular_function;nucleic acid binding;nucleus;zinc ion binding	Entrez Query:Oncogene
2889	RAPGEF1	Rap guanine nucleotide exchange factor (GEF) 1	NM_005312, NM_198679	NP_005303.2, NP_941372.1	ENSG00000107263	chr9:133444704 - 133574891	small GTPase mediated signal transduction;signal transduction;small GTPase mediated signal transduction;transmembrane receptor protein tyrosine kinase	Protein Kinase, Entrez Query:Oncogene
2907	GRINA	ionotropic, N-methyl D-aspartate-associated	NM_001009184	NP_001009184.1	ENSG00000178719	chr8:145137379 - 145138997	receptor activity	Entrez Query:Oncogene
2919	CXCL1	ligand 1 (melanoma growth stimulating)	NM_001511	NP_001502.1	ENSG00000163739	chr4:74954051 - 74955117	activity;chemotaxis;enzyme activator activity;extracellular region;extracellular space;G-protein coupled receptor protein signaling pathway;growth factor	Entrez Query:Oncogene
2920	CXCL2	chemokine (C-X-C motif) ligand 2	NM_002089	NP_002080.1	ENSG00000081041	chr4:75182336 - 75183701	coupled receptor protein signaling pathway;immune response;inflammatory response;soluble fraction	Entrez Query:Oncogene
2921	CXCL3	chemokine (C-X-C motif) ligand 3	NM_002090	NP_002081.2	ENSG00000163734	chr4:75121842 - 75123192	coupled receptor protein signaling pathway;immune response;inflammatory response	Entrez Query:Oncogene
2932	GSK3B	glycogen synthase kinase 3 beta	NM_002093	NP_002084.2	ENSG00000082701	chr3:121028324 - 121294971	response;glycogen metabolic process;glycogen synthase kinase 3 activity;negative regulation of apoptosis;NF-kappaB binding;nucleotide binding;nucleus;p53	TNF_alpha_NF_kB, Wnt, Protein Kinase, Stability,
3074	HEXB	hexosaminidase B (beta polypeptide)	NM_000521	NP_000512.1	ENSG00000049860	chr5:74016841 - 74052756	homeostasis;carbohydrate metabolic process;cation binding;cellular protein metabolic process;ganglioside catabolic process;glycosaminoglycan metabolic	Entrez Query:Oncogene
3082	HGF	factor (hepapoietin A; scatter factor)	NM_001010931, NM_000601,	NP_001010931.1, NP_000592.3,	ENSG00000019991	chr7:81169832 - 81237223	cellular_component;epithelial to mesenchymal transition;growth factor activity;mitosis;protein binding;proteolysis;serine-type endopeptidase activity	Entrez Query:Oncogene
3087	HHEX	hematopoietically expressed homeobox	NM_002729	NP_002720.1	ENSG00000152804	chr10:94439723 - 94444505	development;multicellular organismal development;nucleus;protein binding;regulation of cell proliferation;regulation of transcription, DNA-	Entrez Query:Oncogene
3091	HIF1A	1, alpha subunit (basic helix-loop-helix)	NM_181054, NM_001530	NP_851397.1, NP_001521.1	ENSG00000100644	chr14:61232275 - 61283556	of transcription;protein binding;protein heterodimerization activity;regulation of transcription, DNA-dependent;response to hypoxia;RNA polymerase II transcription	Suppressor, Entrez Query:Oncogene
3159	HMGA1	high mobility group AT-hook 1	NM_145905	NP_665912.1	ENSG00000137309	chr6:34316535 - 34320639	(sensu Eukaryota);DNA binding;DNA unwinding during replication;ligand-dependent nuclear receptor transcription coactivator activity;loss of chromatin	Mitelman 2000, Entrez Query:Oncogene,
3169	FOXA1	forkhead box A1	NM_004496	NP_004487.2	ENSG00000129514	chr14:37130320 - 37133928	homeostasis;hormone metabolic process;lung development;nucleus;positive regulation of transcription from RNA polymerase II promoter;regulation of	Entrez Query:Oncogene
3172	HNF4A	hepatocyte nuclear factor 4, alpha	NM_178850, NM_178849,	NP_849181.1, NP_849180.1,	ENSG00000101076	chr20:42463426 - 42491719	binding;regulation of transcription from RNA polymerase II promoter;regulation of transcription, DNA-dependent;RNA polymerase II transcription factor	Entrez Query:Oncogene
3195	TLX1	T-cell leukemia homeobox 1	NM_005521	NP_005512.1	ENSG00000107807	chr10:102881288 - 102886660	development;neuron differentiation;nucleus;organ formation;positive regulation of cell proliferation;positive regulation of transcription from RNA polymerase II	Mitelman 2000, Vogelstein and Kinzler
3198	HOXA1	homeobox A1	NM_153620, NM_005522	NP_705873.2, NP_005513.1	ENSG00000105991	chr7:27100583 - 27102056	morphogenesis;multicellular organismal development;nervous system development;nucleus;regulation of transcription from RNA polymerase II	Entrez Query:Oncogene
3265	HRAS	sarcoma viral oncogene homolog	NM_176795, NM_005343	NP_789765.1, NP_005334.1	ENSG00000174775	chr11:522635 - 524322	binding;intracellular;membrane;nucleotide binding;organ morphogenesis;plasma membrane;protein C-terminus binding;regulation of progression through cell	Futreal et al 2004, Hahn and Weinberg 2002,
3266	ERAS	ES cell expressed Ras	NM_181532	NP_853510.1	ENSG00000187682	chrX:48572477 - 48573179	GTP binding;intracellular;membrane;nucleotide binding;small GTPase mediated signal transduction	Entrez Query:Oncogene
3298	HSF2	heat shock transcription factor 2	NM_004506	NP_004497.1	ENSG00000025156	chr6:122762581 - 122795064	binding;transcription;transcription coactivator activity;transcription factor activity;transcription from RNA polymerase II promoter	Entrez Query:Oncogene
3315	HSPB1	heat shock 27kDa protein 1	NM_001540	NP_001531.1	ENSG00000106211	chr7:75769965 - 75771426	anti-apoptosis;cell motility;cell surface;cytoplasm;cytoskeleton;protein binding;regulation of translational initiation;response to unfolded protein	Stability, Entrez Query:Oncogene
3320	HSP90AA1	90kDa alpha (cytosolic), class A member 1	NM_001017963	NP_005339.3	ENSG00000080824	chr14:101617801 - 101675494	transport;molecular_function;nitric-oxide synthase regulator activity;nucleotide binding;positive regulation of nitric oxide biosynthetic process;protein	et al 2004, Stability, Entrez Query:Oncogene,
3371	TNC	tenascin C (hexabrachion)	NM_002160	NP_002151.2	ENSG00000041982	chr9:116823256 - 116893118	cell adhesion;proteinaceous extracellular matrix;receptor binding;signal transduction	Stability, Entrez Query:Oncogene
3397	ID1	1, dominant negative helix-loop-helix protein	NM_181353, NM_002165	NP_851998.1, NP_002156.2	ENSG00000125968	chr20:29656851 - 29657558	regulation of transcription factor activity;nucleus;protein binding;regulation of transcription from RNA polymerase II promoter;transcriptional repressor activity	ID, Stability, Entrez Query:Oncogene

3428	IFI16	interferon, gamma-inducible protein 16	NM_005531	NP_005522.2	ENSG00000163565	chr1:157251094 - 157291315	class mediator resulting in induction of apoptosis;double-stranded DNA binding;immune response;monocyte differentiation;myeloid cell	ID, Entrez Query:Oncogene
3486	IGFBP3	insulin-like growth factor binding protein 3	NM_001013398, NM_000598	NP_001013416.1, NP_000589.2	ENSG00000146674	chr7:45920943 - 45927264	regulation of signal transduction;positive regulation of apoptosis;positive regulation of myoblast differentiation;protein tyrosine phosphatase activator	Tumor Suppressor, Entrez Query:Oncogene
3490	IGFBP7	insulin-like growth factor binding protein 7	NM_001553	NP_001544.1	ENSG00000163453	chr4:57592239 - 57671274	extracellular region;insulin-like growth factor binding;negative regulation of cell proliferation;regulation of cell growth	Tumor Suppressor, Entrez Query:Oncogene
3576	IL8	interleukin 8	NM_000584	NP_000575.1	ENSG00000169429	chr4:74825239 - 74827045	signaling;chemokine activity;chemotaxis;extracellular region;extracellular space;G-protein coupled receptor protein signaling pathway;immune response;induction of	Stability, Entrez Query:Oncogene
3579	IL8RB	interleukin 8 receptor, beta	NM_001557	NP_001548.1	ENSG00000180871	chr2:218707769 - 218708852	coupled to IP3 second messenger (phospholipase C activating);inflammatory response;integral to plasma membrane;interleukin-8 receptor	Entrez Query:Oncogene
3646	EIF3E	initiation factor 3, subunit 6 48kDa	NM_001568	NP_001559.1	ENSG00000104408	chr8:109283289 - 109330107	eukaryotic translation initiation factor 3 complex;protein binding;regulation of translational initiation;translation;translation initiation factor activity	Entrez Query:Oncogene
3662	IRF4	interferon regulatory factor 4	NM_002460	NP_002451.2	ENSG00000137265	chr6:338152 - 352598	process;positive regulation of interleukin-13 biosynthetic process;positive regulation of interleukin-2 biosynthetic process;positive regulation of interleukin-4	Mitelman 2000, Entrez Query:Oncogene,
3688	ITGB1	(fibronectin receptor, beta polypeptide,	NM_033668, NM_133376,	NP_391988.1, NP_596867.1,	ENSG00000150093	chr10:33230503 - 33264492	response;homophilic cell adhesion;identical protein binding;integral to membrane;integrin complex;integrin-mediated signaling	Tumor Suppressor, Entrez Query:Oncogene
3704	ITPA	(nucleoside triphosphate pyrophosphatase)	NM_181493, NM_033453	NP_852470.1, NP_258412.1	ENSG00000125877	chr20:3138197 - 3152108	hydrolase activity;nucleoside-triphosphate diphosphatase activity;nucleotide metabolic process	Stability, Entrez Query:Oncogene
3725	JUN	jun oncogene	NM_002228	NP_002219.1	ENSG00000177606	chr1:59020334 - 59021330	chromosome;nucleus;positive regulation of transcription from RNA polymerase II promoter;protein dimerization activity;regulation of progression through cell	EGFR1, TGFBR, Stability, Entrez Query:Oncogene
3726	JUNB	jun B proto-oncogene	NM_002229	NP_002220.1	ENSG00000171223	chr19:12763585 - 12764629	progression through cell cycle;regulation of transcription from RNA polymerase II promoter;RNA polymerase II transcription factor activity;sequence-specific DNA	TGFBR, Entrez Query:Oncogene
3727	JUND	jun D proto-oncogene	NM_005354	NP_005345.3	ENSG00000130522	chr19:18252250 - 18253294	RNA polymerase II promoter;RNA polymerase II transcription factor activity;sequence-specific DNA binding;transcription;transcription factor activity	EGFR1, TGFBR, Entrez Query:Oncogene
3728	JUP	junction plakoglobin	NM_021991	NP_068831.1	ENSG00000173801	chr17:37165521 - 37181632	binding;cytoskeleton;cytosol;desmosome;membrane fraction;soluble fraction;structural molecule activity;Wnt receptor signaling pathway	Suppressor, Entrez Query:Oncogene
3815	KIT	feline sarcoma viral oncogene homolog	NM_000222, NM_001093772	NP_000213.1, NP_001087241.1	ENSG00000157404	chr4:55218938 - 55299480	plasma membrane;hemopoiesis;integral to membrane;membrane;nucleotide binding;peptidyl-tyrosine phosphorylation;pigmentation during	2004, Vogelstein and Kinzler 2004, Protein
3816	KLK1	kallikrein 1	NM_002257	NP_002248.1	ENSG00000167748	chr19:56014261 - 56018816	cellular component;peptidase activity;proteolysis;tissue kallikrein activity	Entrez Query:Oncogene
3845	KRAS	sarcoma viral oncogene homolog	NM_004985, NM_033360	NP_004976.2, NP_203524.1	ENSG00000133703	chr12:25259641 - 25289585	binding;regulation of progression through cell cycle;sensory perception of sound;small GTPase mediated signal transduction	Vogelstein and Kinzler 2004, Tumor Suppressor,
3861	KRT14	(epidermolysis bullosa simplex, Dowling-Meara,	NM_000526	NP_000517.2	ENSG00000186847	chr17:36992212 - 36996612	filament;keratin filament;protein binding;structural constituent of cytoskeleton;structural constituent of epidermis	Entrez Query:Oncogene
3899	AFF3	AF4/FMR2 family, member 3	NM_001025108, NM_002285	NP_001020279.1, NP_002276.2	ENSG00000144218	chr2:99534367 - 100087348	DNA binding;multicellular organismal development;nucleus;regulation of transcription, DNA-dependent;transcription	Mitelman 2000, Entrez Query:Oncogene,
3932	LCK	lymphocyte-specific protein tyrosine kinase	NM_005356	NP_005347.3	ENSG00000182866	chr1:32512517 - 32523904	binding;glycoprotein binding;hemopoiesis;induction of apoptosis;intracellular signaling cascade;lipid raft;nucleotide binding;pericentriolar	Mitelman 2000, Protein Kinase, Tyrosine Kinase,
3934	LCN2	lipocalin 2 (oncogene 24p3)	NM_005564	NP_005555.2	ENSG00000148346	chr9:129951625 - 129955219	binding;cytoplasm;soluble fraction;transport;transporter activity	Suppressor, Entrez Query:Oncogene
4005	LMO2	LIM domain only 2 (rhombotin-like 1)	NM_005574	NP_005565.2	ENSG00000135363	chr11:33837477 - 33847508	metal ion binding;multicellular organismal development;nucleus;protein binding;zinc ion binding	Mitelman 2000, Entrez Query:Oncogene,
4067	LYN	sarcoma viral related oncogene homolog	NM_001111097, NM_002350	NP_001104567.1, NP_002341.1	ENSG00000147507	chr8:57016972 - 57085223	binding;hemoglobin biosynthetic process;intracellular signaling cascade;nucleotide binding;nucleus;positive regulation of cell proliferation;positive regulation of	Kinase, Tumor Suppressor, Tyrosine Kinase, Entrez
4070	TACSTD2	calcium signal transducer 2	NM_002353	NP_002344.2	ENSG00000184292	chr1:58814444 - 58815416	plasma membrane;membrane;receptor activity;response to stimulus;visual perception	Entrez Query:Oncogene
4072	TACSTD1	calcium signal transducer 1	NM_002354	NP_002345.2	ENSG00000119888	chr2:47450148 - 47467256	integral to membrane;plasma membrane	Entrez Query:Oncogene
4094	MAF	musculoaponeurotic fibrosarcoma oncogene	NM_001031804, NM_005360	NP_001026974.1, NP_005351.2	ENSG00000178573	chr16:78185857 - 78191300	transcription from RNA polymerase II promoter;protein dimerization activity;regulation of transcription, DNA-dependent;RNA polymerase II transcription	Mitelman 2000, Entrez Query:Oncogene,
4097	MAFG	musculoaponeurotic fibrosarcoma oncogene	NM_032711	NP_116100.2	ENSG00000197063	chr17:77473772 - 77474353	dimerization activity;regulation of cell proliferation;regulation of epidermal cell differentiation;regulation of transcription, DNA-dependent;sequence-specific DNA	Entrez Query:Oncogene
4142	MAS1	MAS1 oncogene	NM_002377	NP_002368.1	ENSG00000130368	chr6:160247977 - 160248955	proliferation;G-protein coupled receptor protein signaling pathway;integral to plasma membrane;membrane;receptor activity;rhodopsin-like receptor	Protein Kinase, Entrez Query:Oncogene

4149	MAX	MYC associated factor X	NM_145113, NM_145116,	NP_660088.1, NP_660092.1,	ENSG00000125952	chr14:64612946 - 64638810	dependent;transcription coactivator activity;transcription factor activity;transcription from RNA polymerase II promoter;transcription regulator	Entrez Query:Oncogene
4168	MCF2	MCF.2 cell line derived transforming sequence	NM_001099855, NM_005369	NP_001093325.1, NP_005360.3	ENSG00000101977	chrX:138492295 - 138561569	activity;intracellular;intracellular signaling cascade;membrane fraction;regulation of Rho protein signal transduction;Rho guanyl-nucleotide exchange factor activity	EGFR1, Entrez Query:Oncogene
4172	MCM3	maintenance complex component 3	NM_002388	NP_002379.2	ENSG00000112118	chr6:52237344 - 52257431	replication;DNA replication initiation;DNA-dependent ATPase activity;nucleoside-triphosphatase activity;nucleotide binding;nucleus;protein binding;regulation of	Entrez Query:Oncogene
4193	MDM2	cell double minute 2, p53 binding protein	NM_006878, NM_006882,	NP_006869.3, NP_006873.3,	ENSG00000135679	chr12:67488524 - 67519896	cell proliferation;negative regulation of transcription from RNA polymerase II promoter;negative regulator of basal transcription	and Weinberg 2002, Vogelstein and Kinzler
4218	RAB8A	RAB8A, member RAS oncogene family	NM_005370	NP_005361.2	ENSG00000167461	chr19:16099786 - 16104134	transport;regulation of transcription, DNA-dependent;small GTPase mediated signal transduction;transcription factor binding	Stability, Entrez Query:Oncogene
4233	MET	(hepatocyte growth factor receptor)	NM_001127500, NM_000245	NP_001120972.1, NP_000236.2	ENSG00000105976	chr7:116126374 - 116223414	membrane;brain development;cell surface receptor linked signal transduction;hepatocyte growth factor receptor activity;hepatocyte growth factor	Futrel et al 2004, Vogelstein and Kinzler
4286	MITF	associated transcription factor	NM_198159, NM_000248,	NP_937802.1, NP_000239.1,	ENSG00000187098	chr3:69871438 - 70097089	development;nucleus;regulation of transcription, DNA-dependent;sensory perception of sound;transcriptional activator activity	Kit Receptor, Entrez Query:Oncogene
4297	MLL	mixed-lineage leukemia (trithorax homolog,	NM_005933	NP_005924.2	ENSG00000118058	chr11:117812437 - 117898097	methylation;embryonic hemopoiesis;metal ion binding;nuclear part;protein amino acid phosphorylation;protein binding;protein complex assembly;protein	Mitelman 2000, Vogelstein and Kinzler
4299	AFF1	AF4/FMR2 family, member 1	NM_005935	NP_005926.1	ENSG00000172493	chr4:88147583 - 88275877	nucleus;transcription factor activity	Mitelman 2000, Entrez Query:Oncogene,
4313	MMP2	2 (gelatinase A, 72kDa gelatinase, 72kDa type	NM_004530, NM_001127891	NP_004521.1, NP_001121363.1	ENSG00000087245	chr16:54070892 - 54096855	space;gelatinase A activity;peptidoglycan metabolic process;protein binding;proteinaceous extracellular matrix;proteolysis;zinc ion binding	Tumor Suppressor, Entrez Query:Oncogene
4316	MMP7	matrix metalloproteinase 7 (matrilysin, uterine)	NM_002423	NP_002414.1	ENSG00000137673	chr11:101896716 - 101906641	activity;peptidoglycan metabolic process;proteinaceous extracellular matrix;proteolysis;zinc ion binding	Alpha6Beta4 Integrin, Entrez Query:Oncogene
4321	MMP12	12 (macrophage elastase)	NM_002426	NP_002417.2	ENSG00000110347	chr11:102239040 - 102250877	calcium ion binding;cell motility;macrophage elastase activity;peptidoglycan metabolic process;proteinaceous extracellular matrix;proteolysis;zinc ion binding	Entrez Query:Oncogene
4330	MN1	in balanced translocation) 1	NM_002430	NP_002421.3		chr22:26476902 - 26526531	biological_process;cell cycle;cellular_component;molecular_function;negative regulation of progression through cell cycle	Mitelman 2000, Tumor Suppressor, Entrez
4342	MOS	sarcoma viral oncogene homolog	NM_005372	NP_005363.1	ENSG00000172680	chr8:57188054 - 57189095	serine/threonine kinase activity;regulation of progression through cell cycle;transferase activity	Protein Kinase, Stability, Entrez Query:Oncogene
4352	MPL	myeloproliferative leukemia virus oncogene	NM_005373	NP_005364.1	ENSG00000117400	chr1:43576106 - 43591030	transduction;hematopoietin/interferon-class (D200-domain) cytokine receptor activity;integral to plasma membrane;membrane	Entrez Query:Oncogene
4477	MSMB	microseminoprotein, beta-	NM_002443, NM_138634	NP_002434.1, NP_619540.1	ENSG00000138294	chr10:51219590 - 51232406	biological_process;extracellular space;molecular_function;nucleus	Tumor Suppressor, Entrez Query:Oncogene
4486	MST1R	1 receptor (c-met-related tyrosine kinase)	NM_002447	NP_002438.2	ENSG00000164078	chr3:49899743 - 49916046	membrane;macrophage colony stimulating factor receptor activity;membrane;multicellular organismal development;nucleotide	Protein Kinase, Tyrosine Kinase, Entrez
4585	MUC4	mucin 4, cell surface associated	NM_004532, NM_138297	NP_004523.3, NP_612154.2	ENSG00000145113	chr3:196959717 - 197023085	cell adhesion;cell-matrix adhesion;ErbB-2 class receptor binding;integral to plasma membrane;membrane;protein binding	Entrez Query:Oncogene
4602	MYB	viral oncogene homolog (avian)	NM_005375	NP_005366.2	ENSG00000118513	chr6:135544344 - 135580811	binding;regulation of transcription;regulation of transcription, DNA-dependent;RNA splicing;spliceosome;transcription regulator activity;transcriptional activator activity	Mitelman 2000, Stability, Entrez Query:Oncogene
4603	MYBL1	viral oncogene homolog (avian)-like 1	NM_001080416	NP_001073885.1	ENSG00000185697	chr8:67639485 - 67687627	transcription;regulation of transcription, DNA-dependent;RNA splicing;spliceosome;transcription regulator activity;transcriptional activator activity	Entrez Query:Oncogene
4605	MYBL2	viral oncogene homolog (avian)-like 2	NM_002466	NP_002457.1	ENSG00000101057	chr20:41729337 - 41778141	of progression through cell cycle;regulation of transcription, DNA-dependent;transcription factor activity;transcription from RNA polymerase II	Entrez Query:Oncogene
4609	MYC	viral oncogene homolog (avian)	NM_002467	NP_002458.2	ENSG00000136997	chr8:128818021 - 128822386	binding;DNA fragmentation during apoptosis;induction of apoptosis by intracellular signals;iron ion homeostasis;negative regulation of survival gene product	al 2004, Hahn and Weinberg 2002, Mitelman
4610	MYCL1	viral oncogene homolog 1, lung carcinoma	NM_001033081, NM_005376	NP_001028254.1, NP_005367.1	ENSG00000116990	chr1:40135630 - 40139693	nucleus;regulation of transcription, DNA-dependent;transcription factor activity	Vogelstein and Kinzler 2004, Entrez
4613	MYCN	viral related oncogene, neuroblastoma derived	NM_005378	NP_005369.2	ENSG00000134323	chr2:15999637 - 16003670	regulation of cell proliferation;protein binding;regulation of transcription from RNA polymerase II promoter;transcription factor activity	Vogelstein and Kinzler 2004, Stability, Tumor
4718	NDUFC2	(ubiquinone) 1, subcomplex unknown, 2,	NM_004549	NP_004540.1	ENSG00000151366	chr11:77458680 - 77468438	inner membrane;mitochondrial respiratory chain complex I;mitochondrion;NADH dehydrogenase (ubiquinone) activity;NADH dehydrogenase activity;oxidoreductase	Entrez Query:Oncogene
4734	NEDD4	expressed, developmentally down-	NM_198400, NM_006154	NP_940682.2, NP_006145.2	ENSG00000069869	chr15:53909386 - 53996321	intracellular;ligase activity;protein modification process;ubiquitin cycle;ubiquitin-protein ligase activity	Entrez Query:Oncogene
4790	NFKB1	light polypeptide gene enhancer in B-cells 1	NM_003998	NP_003989.2	ENSG00000109320	chr4:103665705 - 103756797	interleukin-12 biosynthetic process;negative regulation of transcription, DNA-dependent;nucleus;positive regulation of transcription;positive regulation of	TNF_alpha_NF_kB, Stability, Tumor

4791	NFKB2	light polypeptide gene enhancer in B-cells 2	NM_002502, NM_001077494	NP_002493.3, NP_001070962.1	ENSG00000077150	chr10:104145706 - 104152123	differentiation;germinal center formation;nucleus;protein binding;regulation of transcription, DNA-dependent;signal transduction;spleen	et al 2004, Mitelman 2000, Tumor Suppressor,
4830	NME1	protein (NM23A) expressed in			ENSG00000011052	chr17:null	activity;DNA binding;GTP biosynthetic process;kinase activity;magnesium ion binding;negative regulation of cell proliferation;negative regulation of progression	Tumor Suppressor, Entrez Query:Oncogene
4869	NPM1	(nucleolar phosphoprotein B23,	NM_001037738, NM_199185	NP_001032827.1, NP_954654.1	ENSG00000181163	chr5:170747557 - 170770174	aging;centrosome;centrosome cycle;cytoplasm;intracellular protein transport;negative regulation of cell proliferation;NF-kappaB	Mitelman 2000, Stability, Tumor Suppressor, Entrez
4893	NRAS	(v-ras) oncogene homolog	NM_002524	NP_002515.1	ENSG00000168638	chr1:115052678 - 115060304	GTP binding;GTPase activity;intracellular;membrane;nucleotide binding;regulation of progression through cell cycle;small GTPase mediated signal transduction	Hahn and Weinberg 2002, Entrez Query:Oncogene,
4914	NTRK1	neurotrophic tyrosine kinase, receptor, type 1	NM_002529, NM_001007792	NP_002520.2, NP_001007793.1	ENSG00000198400	chr1:155097350 - 155118058	differentiation;biological_process;cellular_component;cytoplasm;integral to membrane;integral to plasma membrane;kinase activity;mechanoreceptor	Mitelman 2000, Vogelstein and Kinzler
4927	NUP88	nucleoporin 88kDa	NM_002532	NP_002523.2	ENSG00000108559	chr17:5230249 - 5263694	nuclear pore;nucleus;protein transport;transporter activity	Entrez Query:Oncogene
5015	OTX2	orthodenticle homeobox 2	NM_021728, NM_172337	NP_068374.1, NP_758840.1	ENSG00000165588	chr14:56338205 - 56341927	nervous system development;dorsal/ventral pattern formation;eukaryotic initiation factor 4E binding;eye photoreceptor cell fate commitment;forebrain	Entrez Query:Oncogene
5034	P4HB	oxoglutarate 4-dioxygenase (proline 4-	NM_000918	NP_000909.2	ENSG00000185624	chr17:77395176 - 77411636	compartment;extracellular region;isomerase activity;membrane;microsome;peptidyl-proline hydroxylation to 4-hydroxy-L-	Entrez Query:Oncogene
5055	SERPINB2	inhibitor, clade B (ovalbumin), member 2	NM_002575	NP_002566.1	ENSG00000197632	chr18:59709658 - 59721519	anti-apoptosis;plasminogen activator activity;serine-type endopeptidase inhibitor activity	Tumor Suppressor, Entrez Query:Oncogene
5058	PAK1	activated kinase 1 (STE20 homolog, yeast)	NM_002576, NM_001128620	NP_002567.3, NP_001122092.1	ENSG00000149269	chr11:76711966 - 76781213	biogenesis;dendrite development;ER-nuclear signaling pathway;growth cone;JNK cascade;nucleotide binding;nucleus;plasma membrane;protein amino acid	EGFR1, Protein Kinase, Entrez Query:Oncogene
5076	PAX2	paired box gene 2	NM_003987, NM_003988,	NP_003978.2, NP_003979.2,	ENSG00000075891	chr10:102496007 - 102577430	development;nucleus;regulation of transcription, DNA-dependent;transcription;transcription from RNA polymerase II promoter;visual	ID, Wnt, Entrez Query:Oncogene
5078	PAX4	paired box gene 4	NM_006193	NP_006184.2	ENSG00000106631	chr7:127038353 - 127042810	morphogenesis;regulation of transcription, DNA-dependent;sequence-specific DNA binding;transcription factor activity	Tumor Suppressor, Entrez Query:Oncogene
5155	PDGFB	factor beta polypeptide (simian sarcoma viral (v-	NM_002608, NM_033016	NP_002599.1, NP_148937.1	ENSG00000100311	chr22:37951673 - 37969914	derived growth factor receptor binding;regulation of progression through cell cycle;response to wounding	Mitelman 2000, Vogelstein and Kinzler
5204	PFDN5	prefoldin subunit 5	NM_145897, NM_002624	NP_665904.1, NP_002615.2	ENSG00000123349	chr12:51975618 - 51979396	cytoplasm;nucleus;prefoldin complex;protein folding;regulation of transcription, DNA-dependent;transcription corepressor activity;unfolded protein binding	Entrez Query:Oncogene
5245	PHB	prohibitin	NM_002634	NP_002625.1	ENSG00000167085	chr17:44837352 - 44845625	membrane;membrane;mitochondrial inner membrane;mitochondrion;negative regulation of cell proliferation;negative regulation of	Tumor Suppressor, Entrez Query:Oncogene
5290	PIK3CA	kinase, catalytic, alpha polypeptide	NM_006218	NP_006209.2	ENSG00000121879	chr3:180399307 - 180434846	process;inositol or phosphatidylinositol kinase activity;insulin receptor substrate binding;lamellipodium;phosphatidylinositol-4,5-bisphosphate 3-kinase	EGFR1, Futreal et al 2004, Hahn and Weinberg 2002,
5292	PIM1	pim-1 oncogene	NM_002648	NP_002639.1	ENSG00000137193	chr6:37246329 - 37249845	binding;multicellular organismal development;negative regulation of apoptosis;nucleotide binding;nucleus;protein amino acid phosphorylation;protein	Mitelman 2000, Protein Kinase, Stability, Entrez
5294	PIK3CG	kinase, catalytic, gamma polypeptide	NM_002649	NP_002640.2	ENSG00000105851	chr7:106295242 - 106333068	signaling pathway;inositol or phosphatidylinositol kinase activity;negative regulation of apoptosis;phosphatidylinositol-4,5-bisphosphate 3-kinase	EGFR1, Kit Receptor, Hahn and Weinberg 2002,
5324	PLAG1	pleiomorphic adenoma gene 1	NM_001114634, NM_002655	NP_001108106.1, NP_001108107.1	ENSG00000181690	chr8:57241355 - 57243382	intracellular;metal ion binding;nucleic acid binding;transcription factor activity;zinc ion binding	Mitelman 2000, Entrez Query:Oncogene,
5328	PLAU	plasminogen activator, urokinase	NM_002658	NP_002649.1	ENSG00000122861	chr10:75341319 - 75346329	activity;peptidase activity;plasminogen activator activity;proteolysis;serine-type endopeptidase activity;signal transduction	Stability, Entrez Query:Oncogene
5329	PLAUR	plasminogen activator, urokinase receptor	NM_001005376, NM_001005377	NP_001005376.1, NP_001005377.1	ENSG00000011422	chr19:48844881 - 48866112	transduction;chemotaxis;enzyme binding;extrinsic to membrane;GPI anchor binding;integral to membrane;plasma membrane;regulation of proteolysis;U-	Stability, Entrez Query:Oncogene
5336	PLCG2	2 (phosphatidylinositol-specific)	NM_002661	NP_002652.2	ENSG00000197943	chr16:80377095 - 80549104	activity;intracellular signaling cascade;lipid catabolic process;phosphoinositide phospholipase C activity;phospholipid metabolic process;protein binding;signal	Entrez Query:Oncogene
5371	PML	promyelocytic leukemia	NM_033238, NM_033250,	NP_150241.2, NP_150253.2,	ENSG00000140464	chr15:72074206 - 72124402	mediator resulting in cell cycle arrest;DNA damage response, signal transduction by p53 class mediator resulting in induction of apoptosis;DNA repair;induction of	et al 2004, Mitelman 2000, Tumor Suppressor,
5468	PPARG	activated receptor gamma	NM_015869	NP_619726.2, NP_056953.2	ENSG00000132170	chr3:12368091 - 12450644	metabolites and energy;lipid metabolic process;metal ion binding;negative regulation of transcription from RNA polymerase II promoter;nucleus;positive	Mitelman 2000, Entrez Query:Oncogene,
5573	PRKAR1A	dependent, regulatory, type I, alpha (tissue	NM_002734	NP_997637.1	ENSG00000108946	chr17:64023135 - 64038185	kinase regulator activity;intracellular signaling cascade;kinase activity;mesoderm formation;neuromuscular junction;nucleotide binding;protein amino acid	Mitelman 2000, Tumor Suppressor, Entrez
5584	PRKCI	protein kinase C, iota	NM_002740	NP_002731.4	ENSG00000163558	chr3:171423151 - 171503609	activity;cytoplasm;cytoskeleton organization and biogenesis;cytosol;diacylglycerol binding;establishment and/or maintenance of epithelial cell polarity;establishment	EGFR1, Entrez Query:Oncogene
5594	MAPK1	mitogen-activated protein kinase 1	NM_002745	NP_620407.1	ENSG00000100030	chr22:20453492 - 20551730	of apoptosis;MAP kinase activity;MAPKKK cascade;negative regulation of cell differentiation;nucleotide binding;nucleus;organ morphogenesis;phosphotyrosine	Tumor Suppressor, Entrez Query:Oncogene

5595	MAPK3	mitogen-activated protein kinase 3	NM_002746, NM_001040056	NP_002737.2, NP_001035145.1	ENSG00000102882	chr16:30035489 - 30042031	binding;protein amino acid phosphorylation;protein binding;protein kinase activity;protein serine/threonine kinase activity;regulation of progression through	Kinase, Tumor Suppressor, Entrez Query:Oncogene
5606	MAP2K3	mitogen-activated protein kinase kinase 3	NM_002756	NP_002747.2	ENSG00000034152	chr17:21128825 - 21158135	protein kinase activity;positive regulation of transcription, DNA-dependent;protein amino acid phosphorylation;protein binding;protein serine/threonine kinase	Protein Kinase, Stability, Entrez Query:Oncogene
5610	EIF2AK2	initiation factor 2-alpha kinase 2	NM_002759	NP_002750.1	ENSG00000055332	chr2:37187919 - 37228453	translation initiation factor 2alpha kinase activity;immune response;intracellular;negative regulation of cell proliferation;nucleotide	Suppressor, Entrez Query:Oncogene
5728	PTEN	homolog (mutated in multiple advanced	NM_000314	NP_000305.3	ENSG00000171862	chr10:89614206 - 89715209	development;cytoplasm;heart development;hydrolase activity;induction of apoptosis;inositol phosphate dephosphorylation;inositol-1,3,4,5-tetrakisphosphate	Futreal et al 2004, Hahn and Weinberg 2002,
5743	PTGS2	endoperoxide synthase 2 (prostaglandin G/H	NM_000963	NP_000954.1	ENSG00000073756	chr1:184910107 - 184916045	pathway;cytoplasm;fatty acid biosynthetic process;iron ion binding;keratinocyte differentiation;membrane;metal ion binding;nucleus;oxidoreductase	Suppressor, Entrez Query:Oncogene
5747	PTK2	PTK2 protein tyrosine kinase 2	NM_005607, NM_153831	NP_005598.3, NP_722560.1	ENSG00000169398	chr8:141738746 - 142063392	binding;protein amino acid phosphorylation;protein binding;protein-tyrosine kinase activity;SH2 domain binding;transferase activity	TNF_alpha_NF_kB, Protein Kinase, Stability,
5781	PTPN11	phosphatase, non-receptor type 11	NM_002834	NP_002825.3	ENSG00000179295	chr12:111341298 - 111426951	tyrosine phosphatase activity;protein amino acid dephosphorylation;protein binding;sensory perception of sound	TNF_alpha_NF_kB, Futreal et al 2004, Phosphatase,
5782	PTPN12	phosphatase, non-receptor type 12	NM_002835	NP_002826.3	ENSG00000127947	chr7:77004799 - 77106533	phosphatase activity;protein amino acid dephosphorylation;SH3 domain binding;soluble fraction	EGFR1, Phosphatase, Entrez Query:Oncogene
5820	NR_003367	Pvt1 oncogene homolog, MYC activator (mouse)				chr8:null		Mitelman 2000, Entrez Query:Oncogene
5861	RAB1A	RAB1A, member RAS oncogene family	NM_004161	NP_004152.1	ENSG00000138069	chr2:65169130 - 65210553	activity;nucleotide binding;protein transport;small GTPase mediated signal transduction;vesicle-mediated transport	Entrez Query:Oncogene
5862	RAB2A	RAB2A, member RAS oncogene family	NM_002865	NP_002856.1	ENSG00000104388	chr8:61592320 - 61695882	binding;GTPase activity;nucleotide binding;protein transport;small GTPase mediated signal transduction	Entrez Query:Oncogene
5863	RGL2	dissociation stimulator-like 2	NM_004761	NP_004752.1	ENSG00000056687	chr6:33367856 - 33374365	guanyl-nucleotide exchange factor activity;Ras protein signal transduction;regulation of small GTPase mediated signal transduction;signal	Entrez Query:Oncogene
5864	RAB3A	RAB3A, member RAS oncogene family	NM_002866	NP_002857.1	ENSG00000105649	chr19:18169279 - 18174550	binding;protein binding;protein transport;regulation of exocytosis;small GTPase mediated signal transduction;synaptic vesicle	Entrez Query:Oncogene
5865	RAB3B	RAB3B, member RAS oncogene family	NM_002867	NP_002858.2	ENSG00000169213	chr1:52158186 - 52215377	transport;regulation of exocytosis;secretory granule;small GTPase mediated signal transduction;synaptic vesicle	Entrez Query:Oncogene
5867	RAB4A	RAB4A, member RAS oncogene family	NM_004578	NP_004569.2	ENSG00000168118	chr1:227473709 - 227505347	cytoplasm;GTP binding;GTPase activity;intracellular;nucleotide binding;protein transport;small GTPase mediated signal transduction	Entrez Query:Oncogene
5868	RAB5A	RAB5A, member RAS oncogene family	NM_004162	NP_004153.2	ENSG00000144566	chr3:19967394 - 20000319	raft;nucleotide binding;plasma membrane;protein binding;protein transport;ruffle;small GTPase mediated signal transduction	EGFR1, Entrez Query:Oncogene
5869	RAB5B	RAB5B, member RAS oncogene family	NM_002868	NP_002859.1	ENSG00000111540	chr12:54667011 - 54672263	activity;intracellular;membrane fraction;nucleotide binding;plasma membrane;protein transport;small GTPase mediated signal transduction	Entrez Query:Oncogene
5870	RAB6A	RAB6A, member RAS oncogene family	NM_198896, NM_002869	NP_942599.1, NP_002860.2	ENSG00000175582	chr11:73066590 - 73149328	activity;nucleotide binding;protein binding;protein transport;small GTPase mediated signal transduction	Entrez Query:Oncogene
5872	RAB13	RAB13, member RAS oncogene family	NM_002870	NP_002861.1	ENSG00000143545	chr1:152221198 - 152225336	transport;small GTPase mediated signal transduction;tight junction;vesicle-mediated transport	Entrez Query:Oncogene
5873	RAB27A	RAB27A, member RAS oncogene family	NM_004580	NP_899059.1	ENSG00000069974	chr15:53284996 - 53314424	binding;GTPase activity;melanocyte differentiation;melanosome;melanosome localization;melanosome transport;myosin V binding;natural killer cell	Entrez Query:Oncogene
5874	RAB27B	RAB27B, member RAS oncogene family	NM_004163	NP_004154.2	ENSG00000041353	chr18:50695814 - 50707642	Golgi apparatus;GTP binding;GTPase activity;nucleotide binding;protein binding;protein transport;small GTPase mediated signal transduction	Entrez Query:Oncogene
5878	RAB5C	RAB5C, member RAS oncogene family	NM_201434	NP_958842.1	ENSG00000108774	chr17:37531326 - 37536046	activity;nucleotide binding;protein transport;regulation of endocytosis;small GTPase mediated signal transduction	Entrez Query:Oncogene
5884	RAD17	RAD17 homolog (S. pombe)	NM_002873, NM_133340	NP_579922.1, NP_579918.1	ENSG00000152942	chr5:68703098 - 68745875	checkpoint;mitotic checkpoint;nucleoside-triphosphatase activity;nucleotide binding;nucleus;protein binding	Stability, Entrez Query:Oncogene
5894	RAF1	viral oncogene homolog 1	NM_002880	NP_002871.1	ENSG00000132155	chr3:12601012 - 12635220	biogenesis;diacylglycerol binding;intracellular signaling cascade;metal ion binding;mitochondrial outer membrane;nucleotide binding;protein amino acid	and Weinberg 2002, Stability, Tumor
5898	RALA	viral oncogene homolog A (ras related)	NM_005402	NP_005393.2	ENSG00000006451	chr7:39692791 - 39712369	chemotaxis;GTP binding;intracellular;membrane;nucleotide binding;protein binding;signal transduction;small GTPase mediated signal transduction	Tumor Suppressor, Entrez Query:Oncogene
5899	RALB	viral oncogene homolog B (ras related; GTP	NM_002881	NP_002872.1	ENSG00000144118	chr2:120752710 - 120767306	GTP binding;intracellular;membrane;nucleotide binding;protein binding;signal transduction;small GTPase mediated signal transduction	EGFR1, Entrez Query:Oncogene
5901	RAN	RAN, member RAS oncogene family	NM_006325	NP_006316.1	ENSG00000132341	chr12:129923091 - 129926424	pathway;chromatin;chromatin binding;cytoplasm;DNA metabolic process;GTP binding;GTPase activity;intracellular protein transport;mitosis;mitotic spindle	Androgen Receptor, Entrez Query:Oncogene

5906	RAP1A	RAP1A, member of RAS oncogene family	NM_001010935	NP_002875.1	ENSG00000116473	chr1:112035505 - 112053380	progression through cell cycle;nucleotide binding;protein binding;signal transduction;small GTPase mediated signal transduction	Entrez Query:Oncogene
5908	RAP1B	RAP1B, member of RAS oncogene family	NM_001089704, NM_001010942	NP_001083173.1 , NP_056461.1	ENSG00000127314	chr12:67328771 - 67337234	cell proliferation;GTP binding;intracellular;membrane;nucleotide binding;protein binding;small GTPase mediated signal transduction	Entrez Query:Oncogene
5911	RAP2A	RAP2A, member of RAS oncogene family	NM_021033	NP_066361.1	ENSG00000125249	chr13:96884725 - 96914697	GTP binding;GTPase activity;intracellular;membrane;nucleotide binding;signal transduction;small GTPase mediated signal transduction	Entrez Query:Oncogene
5912	RAP2B	RAP2B, member of RAS oncogene family	NM_002886	NP_002877.2	ENSG00000181467	chr3:154363172 - 154363724	GTP binding;intracellular;membrane;nucleotide binding;signal transduction;small GTPase mediated signal transduction	Entrez Query:Oncogene
5925	RB1	retinoblastoma 1 (including osteosarcoma)	NM_000321	NP_000312.2	ENSG00000139687	chr13:47776049 - 47952208	checkpoint;chromatin;chromatin modification;G1 phase;kinase binding;M phase;molecular_function;negative regulation of cell growth;negative regulation of	TGFBR, Futreal et al 2004, Hahn and Weinberg 2002,
5935	RBM3	RNA binding motif (RNP1, RRM) protein 3	NM_006743	NP_006734.1	ENSG00000102317	chrX:48318512 - 48320418	nucleic acid binding;nucleotide binding;RNA binding;RNA processing	Entrez Query:Oncogene
5937	RBMS1	single stranded interacting protein 1	NM_016836, NM_002897	NP_058520.1 , NP_002888.1	ENSG00000153250	chr2:160840393 - 161058120	binding;nucleotide binding;nucleus;RNA binding;RNA processing;single-stranded DNA binding	Entrez Query:Oncogene
5940	RBMY1A1	protein, Y-linked, family 1, member A1	NM_005058, NM_001006121	NP_001006121.1 , NP_005049.1	ENSG00000174622	chrY:22435888 - 22448048	nucleic acid binding;nucleotide binding;nucleus;RNA binding;RNA processing;spermatogenesis	Entrez Query:Oncogene
5966	REL	reticuloendotheliosis viral oncogene homolog	NM_002908	NP_002899.1	ENSG00000162924	chr2:60962479 - 61003174	transcription, DNA-dependent;signal transducer activity;transcription factor activity;transcription from RNA polymerase II promoter	et al 2004, Mitelman 2000, Entrez
5970	RELA	reticuloendotheliosis viral oncogene homolog	NM_021975	NP_068810.3	ENSG00000173039	chr11:65178424 - 65186879	response;cytokine and chemokine mediated signaling pathway;cytoplasm;defense response to virus;hair follicle development;identical protein binding;inflammatory	NOTCH, TNF_alpha_NF_kB,
5971	RELB	reticuloendotheliosis viral oncogene homolog	NM_006509	NP_006500.2	ENSG00000104856	chr19:50196677 - 50232888	differentiation;nucleus;protein binding;regulation of transcription, DNA-dependent;T-helper 1 cell differentiation;transcription corepressor	TNF_alpha_NF_kB, Entrez Query:Oncogene
5979	RET	ret proto-oncogene	NM_020630, NM_020975	NP_065681.1 , NP_066124.1	ENSG00000165731	chr10:42892712 - 42943723	transduction;homophilic cell adhesion;integral to membrane;kinase activity;membrane;nucleotide binding;posterior midgut development;protein amino	Mitelman 2000, Vogelstein and Kinzler
6098	ROS1	oncogene homolog 1 (avian)	NM_002944	NP_002935.2	ENSG00000047936	chr6:117716347 - 117853512	binding;protein amino acid phosphorylation;receptor activity;signal transduction;sodium:potassium-exchanging ATPase complex;transferase	Mitelman 2000, Protein Kinase, Stability, Tyrosine
6130	RPL7A	ribosomal protein L7a	NM_000972	NP_000963.1	ENSG00000148303	chr9:135204919 - 135208042	fraction;polysomal ribosome;ribosome;ribosome biogenesis and assembly;RNA binding;structural constituent of ribosome;translation	Entrez Query:Oncogene
6237	RRAS	related RAS viral (r-ras) oncogene homolog	NM_006270	NP_006261.1	ENSG00000126458	chr19:54830644 - 54835167	GTP binding;GTPase activity;intracellular;membrane;nucleotide binding;Ras protein signal transduction	Entrez Query:Oncogene
6286	S100P	S100 calcium binding protein P	NM_005980	NP_005971.1	ENSG00000163993	chr4:6746560 - 6749670	calcium ion binding;calcium-dependent protein binding;cytoplasm;endothelial cell migration;magnesium ion binding;nucleus	Entrez Query:Oncogene
6418	SET	(myeloid leukemia-associated)	NM_001122821, NM_003011	NP_001116293.1 , NP_003002.2	ENSG00000119335	chr9:130485995 - 130496764	histone acetylation;nucleocytoplasmic transport;nucleosome assembly;nucleosome disassembly;nucleus;perinuclear region of cytoplasm;protein phosphatase inhibitor	Suppressor, Entrez Query:Oncogene,
6446	SGK1	serum/glucocorticoid regulated kinase	NM_005627, NM_001143676	NP_005618.2 , NP_001137148.1	ENSG00000118515	chr6:134533098 - 134537638	amino acid phosphorylation;protein binding;protein serine/threonine kinase activity;response to DNA damage stimulus;sodium ion transport;transferase activity	Protein Kinase, Stability, Entrez Query:Oncogene
6497	SKI	oncogene homolog (avian)	NM_003036	NP_003027.1	ENSG00000157933	chr1:2150065 - 2228064	morphogenesis;molecular_function;nucleus;protein binding;transcriptional repressor complex	Suppressor, Entrez Query:Oncogene
6498	SKIL	SKI-like oncogene	NM_005414	NP_005405.2	ENSG00000136603	chr3:171560813 - 171592899	development;nucleus;protein binding;signal transduction;transcription corepressor activity;transcription from RNA polymerase II promoter;transforming growth factor	TGFBR, Entrez Query:Oncogene
6528	SLC5A5	(sodium iodide symporter), member 5	NM_000453	NP_000444.1	ENSG00000105641	chr19:17844128 - 17865686	ion binding;sodium ion transport;sodium:iodide symporter activity;symporter activity;transporter activity	Entrez Query:Oncogene
6598	SMARCB1	associated, actin dependent regulator of	NM_003073, NM_001007468	NP_003064.2 , NP_001007469.1	ENSG00000099956	chr22:22459356 - 22506367	through cell cycle;nuclear chromosome;nucleoplasm;nucleus;protein binding;regulation of transcription from RNA polymerase II promoter;retroviral	et al 2004, Tumor Suppressor, Entrez
6608	SMO	smoothed homolog (Drosophila)	NM_005631	NP_005622.1	ENSG00000128602	chr7:128616228 - 128639528	morphogenesis;cilium;determination of left/right symmetry;developmental growth;dorsal/ventral pattern formation;G-protein coupled receptor activity;G-	2004, Tumor Suppressor, Entrez Query:Oncogene,
6635	SNRPE	ribonucleoprotein polypeptide E	NM_003094	NP_003085.1	ENSG00000182225	chr1:202097410 - 202105683	mRNA processing;nucleus;protein binding;RNA binding;RNA splicing;small nuclear ribonucleoprotein complex;spliceosome;spliceosome assembly	Entrez Query:Oncogene
6654	SOS1	son of sevenless homolog 1 (Drosophila)	NM_005633	NP_005624.2	ENSG00000115904	chr2:39066468 - 39201067	activity;intracellular;nucleosome;nucleus;protein binding;Ras protein signal transduction;regulation of Rho protein signal transduction;regulation of small	EGFR1, Kit Receptor, Entrez Query:Oncogene
6659	SOX4	SRY (sex determining region Y)-box 4	NM_003107	NP_003098.1	ENSG00000124766	chr6:21702744 - 21704169	exocrine pancreas development;nucleus;regulation of transcription, DNA-dependent;transcription;transcription factor activity	Tumor Suppressor, Entrez Query:Oncogene
6667	SP1	Sp1 transcription factor	NM_138473	NP_612482.2	ENSG00000185591	chr12:52060342 - 52091291	regulation of global transcription from RNA polymerase II promoter;positive regulation of transcription, DNA-dependent;protein C-terminus binding;protein	EGFR1, TGFBR, Stability, Tumor Suppressor, Entrez

6688	SPI1	virus (SFFV) proviral integration oncogene	NM_003120, NM_001080547	NP_003111.2, NP_001074016.1	ENSG00000066336	chr11:47333353 - 47356480	promoter;nucleus;protein binding;regulation of transcription, DNA-dependent;RNA binding;sequence-specific DNA binding;transcription;transcription factor activity	Entrez Query:Oncogene
6696	SPP1	phosphoprotein 1 (osteopontin, bone	NM_001040058, NM_001040060	NP_001035147.1, NP_001035149.1	ENSG00000118785	chr4:89117071 - 89123072	region;extracellular space;integrin binding;negative regulation of bone mineralization;ossification;protein binding;proteinaceous extracellular matrix	Suppressor, Entrez Query:Oncogene
6714	SRC	Ruppin A-2) viral oncogene homolog	NM_198291	NP_938033.1	ENSG00000197122	chr20:35445970 - 35465196	acid phosphorylation;protein binding;protein kinase cascade;protein-tyrosine kinase activity;receptor activity;SH2 domain binding;SH3/SH2 adaptor activity;signal	Tumor Suppressor, Tyrosine Kinase, Entrez
6720	SREBF1	element binding transcription factor 1	NM_001005291, NM_004176	NP_001005291.1, NP_004167.3	ENSG00000072310	chr17:17656660 - 17680856	reticulum;endoplasmic reticulum membrane;integral to membrane;lipid metabolic process;membrane;nuclear envelope;nucleus;regulation of transcription;regulation	Entrez Query:Oncogene
6760	SS18	translocation, chromosome 18	NM_005637, NM_001007559	NP_005628.2, NP_001007560.1	ENSG00000141380	chr18:21852315 - 21924531	nucleus	Mitelman 2000, Vogelstein and Kinzler
6774	STAT3	activator of transcription 3 (acute-phase response	NM_139276, NM_003150	NP_644805.1, NP_003141.2	ENSG00000168610	chr17:37721288 - 37754060	mediated signaling pathway;cytoplasm;hematopoietin/interferon-class (D200-domain) cytokine receptor signal transducer activity;intracellular signaling	EGFR1, NOTCH, Protein Kinase, Stability, Tumor
6794	STK11	serine/threonine kinase 11	NM_000455	NP_000446.1	ENSG00000118046	chr19:1157912 - 1177646	ion binding;nucleotide binding;nucleus;protein amino acid phosphorylation;protein binding;protein serine/threonine kinase activity;transferase activity	Vogelstein and Kinzler 2004, Protein Kinase,
7009	TMBIM6	transcript (BAX inhibitor 1)	NM_003217, NM_001098576	NP_003208.2, NP_001092046.1	ENSG00000139644	chr12:48422186 - 48442946	apoptosis;endoplasmic reticulum;insoluble fraction;integral to plasma membrane;membrane;negative regulation of apoptosis;nucleus	Entrez Query:Oncogene
7040	TGFB1	transforming growth factor, beta 1	NM_000660	NP_000651.3	ENSG00000105329	chr19:46528796 - 46550789	cell migration;growth factor activity;inflammatory response;lymph node development;negative regulation of cell proliferation;negative regulation of	Stability, Tumor Suppressor, Entrez
7066	THPO	(myeloproliferative leukemia virus oncogene	NM_000460	NP_000451.1	ENSG00000090534	chr3:185572994 - 185576741	cell proliferation;cytokine activity;extracellular region;extracellular space;growth factor activity;hormone activity;multicellular organismal development	Entrez Query:Oncogene
7067	THRA	receptor, alpha (erythroblastic leukemia	NM_199334, NM_003250	NP_955366.1, NP_003241.2	ENSG00000126351	chr17:35484267 - 35503161	transcription;nucleus;organ morphogenesis;ossification;protein binding;regulation of heart contraction;regulation of transcription, DNA-dependent;sequence-specific	Entrez Query:Oncogene
7068	THRB	receptor, beta (erythroblastic leukemia	NM_001128176, NM_001128177	NP_001121648.1, NP_001121649.1	ENSG00000151090	chr3:24139378 - 24245454	morphogenesis;positive regulation of transcription from RNA polymerase II promoter;protein binding;receptor activity;regulation of heart	Entrez Query:Oncogene
7078	TIMP3	inhibitor 3 (Sorsby fundus dystrophy,	NM_000362	NP_000353.1	ENSG00000100234	chr22:31527987 - 31585364	extracellular signals;metalloendopeptidase inhibitor activity;molecular function;proteinaceous extracellular matrix;response to	Tumor Suppressor, Entrez Query:Oncogene
7157	TP53	tumor protein p53 (Li-Fraumeni syndrome)	NM_001126117, NM_000546,	NP_001119589.1, NP_001119587.1,	ENSG00000141510	chr17:7513651 - 7520637	cycle;cell cycle arrest;cell differentiation;cell proliferation;cellular response to glucose starvation;copper ion binding;cytoplasm;DNA damage response, signal	Vogelstein and Kinzler 2004, Stability, Tumor
7161	TP73	tumor protein p73	NM_001126241, NM_001126242,	NP_001119713.1, NP_001119714.1,	ENSG00000078900	chr1:3588789 - 3639503	induction of apoptosis;metal ion binding;mismatch repair;negative regulation of progression through cell cycle;nucleus;protein binding;regulation of transcription,	TGFBR, Stability, Tumor Suppressor, Entrez
7163	TPD52	tumor protein D52	NM_001025252, NM_001025253	NP_001020423.1, NP_001020424.1	ENSG00000076554	chr8:81112905 - 81155243	binding;cytoplasm;endoplasmic reticulum;perinuclear region of cytoplasm;protein heterodimerization activity;protein homodimerization activity;secretion	Entrez Query:Oncogene
7175	TPR	region (to activated MET oncogene)	NM_003292	NP_003283.2	ENSG00000047410	chr1:184549725 - 184610783	cytoplasm;nuclear envelope;nuclear pore;nucleus;protein import into nucleus;transport	Mitelman 2000, Entrez Query:Oncogene,
7249	TSC2	tuberous sclerosis 2	NM_001077183, NM_000548	NP_001070651.1, NP_000539.2	ENSG00000103197	chr16:2038617 - 2078612	activity;intracellular;membrane fraction;negative regulation of progression through cell cycle;plasma membrane;positive regulation of GTPase activity;protein	Vogelstein and Kinzler 2004, Protein Kinase,
7291	TWIST1	(acrocephalosyndactyly 3; Saethre-Chotzen	NM_000474	NP_000465.1	ENSG00000122691	chr7:19122860 - 19123469	and biogenesis (sensu Eukaryota);DNA binding;enzyme inhibitor activity;multicellular organismal development;negative regulation of transcription	Entrez Query:Oncogene
7298	TYMS	thymidylate synthetase	NM_001071	NP_001062.1	ENSG00000176890	chr18:647742 - 662997	replication;dTMP biosynthetic process;methyltransferase activity;nucleobase, nucleoside, nucleotide and nucleic acid metabolic process;nucleotide biosynthetic	Stability, Entrez Query:Oncogene
7335	UBE2V1	ubiquitin-conjugating enzyme E2 variant 1			ENSG00000124208	chr20:null	differentiation;cytoplasm;nucleus;positive regulation of I-kappaB kinase/NF-kappaB cascade;protein binding;protein modification process;protein	Stability, Entrez Query:Oncogene
7337	UBE3A	E3A (human papilloma virus E6-associated	NM_130838, NM_130839	NP_570853.1, NP_570854.1	ENSG00000114062	chr15:23135376 - 23204888	binding;protein complex;protein modification process;proteolysis;ubiquitin cycle;ubiquitin-dependent protein catabolic process;ubiquitin-protein ligase activity	Stability, Tumor Suppressor, Entrez
7343	UBTF	transcription factor, RNA polymerase I	NM_001076683, NM_014233	NP_001070152.1, NP_055048.1	ENSG00000108312	chr17:39640135 - 39651123	polymerase I promoter;regulation of transcription, DNA-dependent;RNA polymerase I transcription factor activity;transcription	Entrez Query:Oncogene
7375	USP4	peptidase 4 (proto-oncogene)	NM_199443, NM_003363	NP_955475.1, NP_003354.2	ENSG00000114316	chr3:49290729 - 49352461	cysteine-type endopeptidase activity;lysosome;nucleus;peptidase activity;ubiquitin cycle;ubiquitin thiolesterase activity;ubiquitin-dependent protein catabolic process	Entrez Query:Oncogene
7409	VAV1	vav 1 oncogene	NM_005428	NP_005419.2	ENSG00000141968	chr19:6723818 - 6808118	response;integrin-mediated signaling pathway;intracellular;intracellular signaling cascade;metal ion binding;nucleus;phagocytosis;positive regulation of cell	EGFR1, Kit Receptor, Entrez Query:Oncogene
7410	VAV2	vav 2 oncogene	NM_003371	NP_003362.2	ENSG00000160293	chr9:135619004 - 135847221	activity;intracellular;intracellular signaling cascade;metal ion binding;protein binding;regulation of Rho protein signal transduction;Rho guanyl-nucleotide	Entrez Query:Oncogene
7422	VEGFA	vascular endothelial growth factor A	NM_001025367, NM_001033756,	NP_001020538.2, NP_001028928.1,	ENSG00000112715	chr6:43846421 - 43860277	binding;extracellular space;growth factor activity;heparin binding;induction of positive chemotaxis;membrane;multicellular organismal development;negative	Stability, Entrez Query:Oncogene

7424	VEGFC	vascular endothelial growth factor C	NM_005429	NP_005420.1	ENSG00000150630	chr4:177842070 - 177950459	activity;membrane;morphogenesis of embryonic epithelium;multicellular organismal development;organ morphogenesis;positive regulation of cell	Entrez Query:Oncogene
7471	WNT1	integration site family, member 1	NM_005430	NP_005421.1	ENSG00000125084	chr12:47658700 - 47661690	migration;central nervous system development;establishment and/or maintenance of cell polarity;extracellular region;multicellular organismal development;receptor	Wnt, Entrez Query:Oncogene
7473	WNT3	integration site family, member 3	NM_030753	NP_110380.1	ENSG00000108379	chr17:42200854 - 42250962	constituent;extracellular region;multicellular organismal development;protein binding;proteinaceous extracellular matrix;signal transducer activity;Wnt receptor	Wnt, Entrez Query:Oncogene
7476	WNT7A	integration site family, member 7A	NM_004625	NP_004616.2	ENSG00000154764	chr3:13835441 - 13896314	differentiation;dorsal/ventral pattern formation;embryonic forelimb morphogenesis;embryonic hindlimb morphogenesis;extracellular	Wnt, Entrez Query:Oncogene
7480	WNT10B	integration site family, member 10B	NM_003394	NP_003385.2	ENSG00000169884	chr12:47646144 - 47650579	activity;signal transduction;Wnt receptor signaling pathway, calcium modulating pathway	Entrez Query:Oncogene
7525	YES1	sarcoma viral oncogene homolog 1	NM_005433	NP_005424.1	ENSG00000176105	chr18:714423 - 746827	binding;protein amino acid phosphorylation;protein binding;protein modification process;protein-tyrosine kinase activity;transferase activity	Receptor, Tyrosine Kinase, Entrez Query:Oncogene
7849	PAX8	paired box gene 8	NM_003466, NM_013952,	NP_003457.1, NP_039246.1,	ENSG00000125618	chr2:113694139 - 113752441	development;nucleoplasm;nucleus;positive regulation of transcription, DNA-dependent;protein binding;thyroid-stimulating hormone receptor	Mitelman 2000, Entrez Query:Oncogene,
7852	CXCR4	chemokine (C-X-C motif) receptor 4	NM_001008540, NM_003467	NP_001008540.1, NP_003458.1	ENSG00000121966	chr2:136588908 - 136592100	development;C-C chemokine receptor activity;C-X-C chemokine receptor activity;chemotaxis;coreceptor activity;cytoplasm;elevation of cytosolic calcium ion	Suppressor, Entrez Query:Oncogene
7879	RAB7A	RAB7A, member RAS oncogene family	NM_004637	NP_004628.4	ENSG00000075785	chr3:129996900 - 130014955	binding;protein binding;protein transport;small GTPase mediated signal transduction	Entrez Query:Oncogene
7913	DEK	DEK oncogene (DNA binding)	NM_003472	NP_003463.1	ENSG00000124795	chr6:18333928 - 18372197	polymerase II promoter;signal transduction;specific RNA polymerase II transcription factor activity;viral genome replication	Mitelman 2000, Entrez Query:Oncogene,
7975	MAFK	musculoaponeurotic fibrosarcoma oncogene			ENSG00000198517	chr7:null	chromatin;nucleus;protein dimerization activity;regulation of transcription, DNA-dependent;sequence-specific DNA binding;transcription;transcription factor activity	Entrez Query:Oncogene
7984	ARHGEF5	Rho guanine nucleotide exchange factor (GEF) 5	NM_005435	NP_005426.2	ENSG00000050327	chr7:143690695 - 143708082	binding;regulation of Rho protein signal transduction;Rho guanyl-nucleotide exchange factor activity	Entrez Query:Oncogene
8021	NUP214	nucleoporin 214kDa	NM_005085	NP_005076.3	ENSG00000126883	chr9:132990912 - 133098695	membrane;porin activity;protein binding;protein export from nucleus;transport;transporter activity	Mitelman 2000, Entrez Query:Oncogene,
8031	NCOA4	nuclear receptor coactivator 4	NM_005437	NP_005428.1	ENSG00000138293	chr10:51249147 - 51259236	development;nucleus;positive regulation of transcription, DNA-dependent;protein binding;receptor activity;transcription;transcription coactivator	Futreal et al 2004, Mitelman 2000, Entrez
8061	FOSL1	FOS-like antigen 1	NM_005438	NP_005429.1	ENSG00000175592	chr11:65416932 - 65424386	proliferation;protein dimerization activity;regulation of transcription from RNA polymerase II promoter;response to virus;sequence-specific DNA	Entrez Query:Oncogene
8082	SSPN	oncogene-associated gene)	NM_005086	NP_005077.2	ENSG00000123096	chr12:26239872 - 26275276	cell adhesion;cytoskeleton;dystrophin-associated glycoprotein complex;integral to plasma membrane;membrane;muscle contraction;transport vesicle	Entrez Query:Oncogene
8091	HMGA2	high mobility group AT-hook 2	NM_003483, NM_003484	NP_003474.1, NP_003475.1	ENSG00000149948	chr12:64505317 - 64643339	(sensu Eukaryota);DNA binding;establishment and/or maintenance of chromatin architecture;multicellular organismal development;nucleus;protein	Mitelman 2000, Vogelstein and Kinzler
8115	TCL1A	T-cell leukemia/lymphoma 1A	NM_001098725	NP_068801.1	ENSG00000100721	chr14:95247844 - 95250156	cell cortex;endoplasmic reticulum;microsome;multicellular organismal development;pronucleus;protein binding	Mitelman 2000, Tumor Suppressor, Entrez
8379	MAD1L1	MAD1 mitotic arrest deficient-like 1 (yeast)	NM_003550	NP_003541.2	ENSG00000002822	chr7:1822231 - 2236294	cell cycle;cell division;centrosome;mitotic anaphase;mitotic checkpoint;mitotic metaphase;mitotic telophase;molecular function;nucleus;spindle	Tumor Suppressor, Entrez Query:Oncogene
8434	RECK	cysteine-rich protein with kazal motifs	NM_021111	NP_066934.1	ENSG00000122707	chr9:36026995 - 36113042	activity;negative regulation of progression through cell cycle;peripheral to membrane of membrane fraction;protein binding;serine-type endopeptidase	Tumor Suppressor, Entrez Query:Oncogene
8493	PPM1D	magnesium-dependent, delta isoform	NM_003620	NP_003611.1	ENSG00000170836	chr17:56032557 - 56095695	binding;manganese ion binding;negative regulation of cell proliferation;nucleus;protein amino acid dephosphorylation;protein phosphatase	Tumor Suppressor, Entrez Query:Oncogene
8537	BCAS1	breast carcinoma amplified sequence 1	NM_003657	NP_003648.2	ENSG00000064787	chr20:51994867 - 52108664	protein binding	Entrez Query:Oncogene
8543	LMO4	LIM domain only 4	NM_006769	NP_006760.1	ENSG00000143013	chr1:87570286 - 87583067	dependent;transcription;transcription factor activity;transcription factor binding;transcription factor complex;transcription from RNA polymerase II	Entrez Query:Oncogene
8562	DENR	density-regulated protein	NM_003677	NP_003668.2	ENSG00000139726	chr12:121804201 - 121819578	biological_process;cellular_component;molecular_function;translation initiation factor activity;translational initiation	Entrez Query:Oncogene
8682	PEA15	phosphoprotein enriched in astrocytes 15	NM_003768	NP_003759.1	ENSG00000162734	chr1:158447958 - 158449900	anti-apoptosis;microtubule associated complex;negative regulation of glucose import;protein binding;regulation of apoptosis;sugar porter activity;transport	Stability, Entrez Query:Oncogene
8766	RAB11A	RAB11A, member RAS oncogene family	NM_004663	NP_004654.1	ENSG00000103769	chr15:63948977 - 63967232	transport;protein binding;protein transport;small GTPase mediated signal transduction;syntaxin binding;trans-Golgi network;transporter activity	Entrez Query:Oncogene
8772	FADD	associated via death domain	NM_003824	NP_003815.1	ENSG00000168040	chr11:69727213 - 69730227	receptor binding;identical protein binding;induction of apoptosis via death domain receptors;positive regulation of I-kappaB kinase/NF-kappaB cascade;regulation of	TNF_alpha_NF_kB, Entrez Query:Oncogene

8829	NRP1	neuropilin 1	NM_001024628, NM_001024629	NP_001019799.1, NP_001019800.1	ENSG00000099250	chr10:33509009 - 33663316	signaling;endoplasmic reticulum;integral to membrane;membrane;membrane fraction;multicellular organismal development;nervous system development;organ	Suppressor, Entrez Query:Oncogene
8883	NAE1	amyloid beta precursor protein binding protein 1	NM_001018159	NP_001018170.1	ENSG00000159593	chr16:65394412 - 65422303	activating enzyme activity;protein binding;protein heterodimerization activity;protein neddylation;regulation of apoptosis;S-M checkpoint;signal	Entrez Query:Oncogene
8934	RAB7L1	RAB7, member RAS oncogene family-like 1	NM_003929	NP_003920.1	ENSG00000117280	chr1:204006092 - 204010707	GTP binding;GTPase activity;membrane;nucleotide binding;protein binding;protein transport;small GTPase mediated signal transduction	Entrez Query:Oncogene
9043	SPAG9	sperm associated antigen 9	NM_003971	NP_003962.3	ENSG00000008294	chr17:46398631 - 46553016	integral to membrane;spermatogenesis	Entrez Query:Oncogene
9098	USP6	peptidase 6 (Tre-2 oncogene)	NM_004505	NP_004496.2	ENSG00000129204	chr17:4974386 - 5016997	binding;protein binding;protein modification process;Rab GTPase activator activity;regulation of Rab GTPase activity;ubiquitin cycle;ubiquitin thiolesterase	Entrez Query:Oncogene
9111	NMI	N-myc (and STAT) interactor	NM_004688	NP_004679.2	ENSG00000123609	chr2:151835452 - 151847708	cytoplasm;inflammatory response;JAK-STAT cascade;protein binding;transcription cofactor activity;transcription from RNA polymerase II promoter	Entrez Query:Oncogene
9230	RAB11B	RAB11B, member RAS oncogene family	NM_004218	NP_004209.2	ENSG00000185236	chr19:8361300 - 8374442	GTP binding;GTPase activity;membrane;nucleotide binding;protein transport;small GTPase mediated signal transduction	Entrez Query:Oncogene
9232	PTTG1	pituitary tumor-transforming 1	NM_004219	NP_004210.1	ENSG00000164611	chr5:159781897 - 159788266	biogenesis;chromosome segregation;cysteine protease inhibitor activity;cytoplasm;DNA metabolic process;DNA	Stability, Entrez Query:Oncogene
9258	MFHAS1	histiocytoma amplified sequence 1	NM_004225	NP_004216.2	ENSG00000147324	chr8:8680941 - 8787978	GTP binding;protein binding;small GTPase mediated signal transduction	Entrez Query:Oncogene
9363	RAB33A	RAB33A, member RAS oncogene family	NM_004794	NP_004785.1	ENSG00000134594	chrX:129133717 - 129146395	GTP binding;GTPase activity;membrane;nucleotide binding;protein transport;small GTPase mediated signal transduction	Entrez Query:Oncogene
9364	RAB28	RAB28, member RAS oncogene family	NM_001017979, NM_004249	NP_001017979.1, NP_004240.1	ENSG00000157869	chr4:12979279 - 13094872	GTP binding;GTPase activity;membrane;nucleotide binding;small GTPase mediated signal transduction	Entrez Query:Oncogene
9366	RAB9P1	oncogene family, pseudogene 1				chr5:null		Entrez Query:Oncogene
9367	RAB9A	RAB9A, member RAS oncogene family	NM_004251	NP_004242.1	ENSG00000123595	chrX:13636786 - 13637392	GTP binding;GTPase activity;late endosome;lysosome;membrane;nucleotide binding;protein transport;small GTPase mediated signal transduction	Entrez Query:Oncogene
9545	RAB3D	RAB3D, member RAS oncogene family	NM_004283	NP_004274.1	ENSG00000105514	chr19:11297073 - 11309075	binding;protein binding;protein transport;regulation of exocytosis;small GTPase mediated signal transduction;zymogen granule	Entrez Query:Oncogene
9557	CHD1L	DNA binding protein 1-like	NM_004284	NP_004275.3	ENSG00000131778	chr1:145180977 - 145233814	ATP binding;ATP-dependent helicase activity;DNA binding;helicase activity	Stability, Entrez Query:Oncogene
9609	RAB36	RAB36, member RAS oncogene family	NM_004914	NP_004905.2	ENSG00000100228	chr22:21817552 - 21833751	Golgi apparatus;GTP binding;GTPase activity;nucleotide binding;protein transport;small GTPase mediated signal transduction	Entrez Query:Oncogene
9623	TCL1B	T-cell leukemia/lymphoma 1B	NM_004918	NP_954676.1	ENSG00000187621	chr14:95222557 - 95227411	protein binding	Entrez Query:Oncogene
9641	IKBKE	polypeptide gene enhancer in B-cells,	NM_014002	NP_054721.1	ENSG00000143466	chr1:204713193 - 204736101	inducing kinase activity;nucleotide binding;positive regulation of I-kappaB kinase/NF-kappaB cascade;protein amino acid phosphorylation;protein binding;signal	Suppressor, Entrez Query:Oncogene
9700	ESPL1	extra spindle pole bodies homolog 1 (S. cerevisiae)	NM_012291	NP_036423.4	ENSG00000135476	chr12:51948817 - 51973525	activity;cytokinesis;establishment of mitotic spindle localization;homologous chromosome segregation;meiotic spindle organization and biogenesis;mitotic sister	Entrez Query:Oncogene
9798	KIAA0174	KIAA0174	NM_014761	NP_055576.2	ENSG00000182149	chr16:70507044 - 70519203	ER-Golgi intermediate compartment;protein binding	Entrez Query:Oncogene
9820	CUL7	cullin 7	NM_014780	NP_055595.2	ENSG00000044090	chr6:43113403 - 43128504	endothelial cell differentiation;regulation of mitotic metaphase/anaphase transition;ubiquitin cycle;vasculogenesis	Entrez Query:Oncogene
9839	ZEB2	zinc finger E-box binding homeobox 2	NM_014795	NP_055610.1	ENSG00000169554	chr2:144863487 - 144991387	ion binding;negative regulation of transcription;neural crest cell migration;neural tube closure;nucleic acid binding;nucleus;phosphatase regulator activity;regulation	TGFBR, Entrez Query:Oncogene
9846	GAB2	GRB2-associated binding protein 2	NM_012296	NP_036428.1	ENSG00000033327	chr11:77607965 - 77806414		Protein Kinase, Entrez Query:Oncogene
9857	CEP350	centrosomal protein 350kDa	NM_014810	NP_055625.4	ENSG00000135837	chr1:178221939 - 178346919	nucleus	Entrez Query:Oncogene
9935	MAFB	musculoaponeurotic fibrosarcoma oncogene	NM_005461	NP_005452.2	ENSG00000179050	chr20:38749932 - 38750904	differentiation;nucleus;positive regulation of transcription from RNA polymerase II promoter;protein dimerization activity;respiratory gaseous exchange;segment	Mitelman 2000, Entrez Query:Oncogene,
9950	GOLGA5	golgi autoantigen, golgin subfamily a, 5	NM_005113	NP_005104.2	ENSG00000066455	chr14:92333535 - 92375544	apparatus;Golgi cisterna;Golgi organization and biogenesis;Golgi vesicle transport;integral to membrane;membrane;protein amino acid	Mitelman 2000, Protein Kinase, Entrez
10000	AKT3	viral oncogene homolog 3 (protein kinase B,	NM_005465, NM_181690	NP_005456.1, NP_859029.1	ENSG00000117020	chr1:241735173 - 242073095	binding;protein serine/threonine kinase activity;signal transduction;transferase activity	Protein Kinase, Entrez Query:Oncogene

10018	BCL2L11	BCL2-like 11 (apoptosis facilitator)	NM_207002, NM_006538	NP_996885.1, NP_006529.1	ENSG00000153094	chr2:111597793 - 111638279	apoptosis;induction of apoptosis;membrane;membrane fraction;positive regulation of apoptosis;protein binding	Stability, Entrez Query:Oncogene
10023	FRAT1	advanced T-cell lymphomas	NM_005479	NP_005470.2	ENSG00000165879	chr10:99069200 - 99070040	Wnt receptor signaling pathway	Entrez Query:Oncogene
10040	TOM1L1	target of myb1 (chicken)-like 1	NM_005486	NP_005477.2	ENSG00000141198	chr17:50333225 - 50392986	endosome;intracellular;intracellular protein transport;lysosome;membrane;protein binding;protein kinase activator activity	Protein Kinase, Entrez Query:Oncogene
10043	TOM1	target of myb1 (chicken)	NM_005488	NP_005479.1	ENSG00000100284	chr22:34025921 - 34073202	transport;intracellular;intracellular protein transport;lysosome;membrane;protein binding	Entrez Query:Oncogene
10048	RANBP9	RAN binding protein 9	NM_005493	NP_005484.2	ENSG00000010017	chr6:13730572 - 13819716	microtubule associated complex;microtubule nucleation;nucleus;protein binding;protein complex assembly;Ran GTPase binding	Androgen Receptor, Entrez Query:Oncogene
10140	TOB1	transducer of ERBB2, 1	NM_005749	NP_005740.1	ENSG00000141232	chr17:46295339 - 46296377	proliferation;negative regulation of osteoblast differentiation;SH3/SH2 adaptor activity;SMAD binding;SMAD protein nuclear translocation;transcription corepressor	Entrez Query:Oncogene
10152	ABI2	abl interactor 2	NM_005759	NP_005750.4	ENSG00000138443	chr2:203901482 - 204000320	migration;cytoplasm;cytoskeletal adaptor activity;cytoskeleton;cytoskeleton organization and biogenesis;DNA binding;filopodium;kinase	Stability, Entrez Query:Oncogene
10189	THOC4	THO complex 4	NM_005782	NP_005773.2	ENSG00000183684	chr17:77439302 - 77442731	binding;protein folding;RNA binding;RNA splicing;single-stranded DNA binding;spliceosome;transport	Entrez Query:Oncogene
10226	M6PRBP1	receptor binding protein 1	NM_005817	NP_005808.2	ENSG00000105355	chr19:4790203 - 4812406	cytoplasm;endosome;Golgi apparatus;membrane;vesicle-mediated transport	Stability, Entrez Query:Oncogene
10257	ABCC4	sub-family C (CFTR/MRP), member 4	NM_001105515, NM_005845	NP_001098985.1, NP_005836.2	ENSG00000125257	chr13:94471829 - 94751569	activity;ATPase activity, coupled to transmembrane movement of substances;biological process;cellular component;chloride channel activity;integral	Entrez Query:Oncogene
10276	NET1	neuroepithelial cell transforming gene 1	NM_001047160, NM_005863	NP_001040625.1, NP_005854.2	ENSG00000173848	chr10:5444655 - 5488957	activity;intracellular;nucleus;regulation of cell growth;regulation of Rho protein signal transduction;Rho guanyl-nucleotide exchange factor activity;signal	Entrez Query:Oncogene
10296	MAEA	macrophage erythroblast attacher	NM_001017405, NM_005882	NP_001017405.1, NP_005873.2	ENSG00000090316	chr4:1273701 - 1322957	apoptosis;cell adhesion;integral to plasma membrane;membrane fraction;multicellular organismal development	Entrez Query:Oncogene
10342	TFG	TRK-fused gene	NM_006070	NP_006061.2	ENSG00000114354	chr3:101915219 - 101950065	kappaB kinase/NF-kappaB cascade;protein amino acid phosphorylation;signal transducer activity;transmembrane receptor protein tyrosine kinase	Mitelman 2000, Entrez Query:Oncogene,
10399	GNB2L1	binding protein (G protein), beta	NM_006098	NP_006089.1		chr5:180596582 - 180603406	cell soma;cytoplasm;protein kinase C activation;protein kinase C binding;receptor binding;signal transduction	TNF_alpha_NF_kB, Entrez Query:Oncogene
10413	YAP1	Yes-associated protein 1, 65kDa	NM_006106	NP_006097.1	ENSG00000137693	chr11:101486789 - 101605881	positive regulation of transcription from RNA polymerase II promoter;protein binding;transcription factor complex;transcriptional activator activity	Suppressor, Entrez Query:Oncogene
10451	VAV3	vav 3 oncogene	NM_001079874, NM_006113	NP_001073343.1, NP_006104.4	ENSG00000134215	chr1:107917475 - 108309014	activity;intracellular;intracellular signaling cascade;metal ion binding;regulation of Rho protein signal transduction;Rho guanyl-nucleotide exchange factor	EGFR1, Entrez Query:Oncogene
10461	MERTK	c-mer proto-oncogene tyrosine kinase	NM_006343	NP_006334.2	ENSG00000153208	chr2:112372783 - 112502912	signaling;integral to plasma membrane;membrane;nucleotide binding;protein amino acid phosphorylation;receptor activity;response to stimulus;soluble	Kinase, Entrez Query:Oncogene
10890	RAB10	RAB10, member RAS oncogene family	NM_016131	NP_057215.2	ENSG00000084733	chr2:26110981 - 26211394	Golgi apparatus;GTP binding;membrane;nucleotide binding;protein binding;protein transport;small GTPase mediated signal transduction	Entrez Query:Oncogene
10966	RAB40B	RAB40B, member RAS oncogene family	NM_006822	NP_006813.1	ENSG00000141542	chr17:78209027 - 78249761	GTP binding;membrane;nucleotide binding;protein transport;small GTPase mediated signal transduction	Entrez Query:Oncogene
10981	RAB32	RAB32, member RAS oncogene family	NM_006834	NP_006825.1	ENSG00000118508	chr6:146906700 - 146917434	GTP binding;mitochondrion;nucleotide binding;protein transport;small GTPase mediated signal transduction	Entrez Query:Oncogene
11020	RABL4	RAB, member of RAS oncogene family-like 4	NM_006860	NP_006851.1	ENSG00000100360	chr22:35484300 - 35501697	GTP binding;intracellular;nucleotide binding;small GTPase mediated signal transduction	Entrez Query:Oncogene
11021	RAB35	RAB35, member RAS oncogene family	NM_006861	NP_006852.1	ENSG00000111737	chr12:119018601 - 119019432	pit;cytokinesis;endosome transport;GTP binding;GTPase activity;intercellular bridge;nucleotide binding;phosphatidylinositol-4,5-bisphosphate binding;plasma	Entrez Query:Oncogene
11031	RAB31	RAB31, member RAS oncogene family	NM_006868	NP_006859.2	ENSG00000168461	chr18:9698402 - 9849322	GTP binding;GTPase activity;membrane;nucleotide binding;protein transport;small GTPase mediated signal transduction	Entrez Query:Oncogene
11040	PIM2	pim-2 oncogene	NM_006875	NP_006866.2	ENSG00000102096	chrX:48656351 - 48661055	meiosis;nucleotide binding;protein amino acid phosphorylation;protein binding;protein serine/threonine kinase activity;transferase activity	Protein Kinase, Entrez Query:Oncogene
11116	FGFR1OP	FGFR1 oncogene partner	NM_194429, NM_007045	NP_919410.1, NP_008976.1	ENSG00000112486	chr6:167332890 - 167373456	positive regulation of cell proliferation	Mitelman 2000, Protein Kinase, Entrez
11158	RABL2B	RAB, member of RAS oncogene family-like 2B	NM_001003789, NM_007081	NP_001003789.1, NP_009012.1	ENSG00000079974	chr22:49554069 - 49567588	GTP binding;GTPase activity;nucleotide binding;small GTPase mediated signal transduction	Entrez Query:Oncogene
11159	RABL2A	RAB, member of RAS oncogene family-like 2A	NM_013412	NP_038198.1	ENSG00000144134	chr2:114102653 - 114116176	GTP binding;GTPase activity;nucleotide binding;small GTPase mediated signal transduction	Entrez Query:Oncogene

11186	RASSF1	(RalGDS/AF-6) domain family 1	NM_170714	NP_733830.1	ENSG00000068028	chr3:50343015 - 50353240	binding;intracellular signaling cascade;metal ion binding;microtubule;nucleus;Ras protein signal transduction;zinc ion binding	Tumor Suppressor, Entrez Query:Oncogene
11214	AKAP13	A kinase (PKA) anchor protein 13	NM_007200, NM_006738	NP_009131.2, NP_006729.4	ENSG00000170776	chr15:83829955 - 84088912	activity;intracellular;intracellular signaling cascade;membrane;membrane fraction;metal ion binding;nucleus;receptor activity;regulation of Rho protein signal	Protein Kinase, Entrez Query:Oncogene
11315	PARK7	(autosomal recessive, early onset) 7	NM_001123377, NM_007262	NP_001116849.1, NP_009193.2	ENSG00000116288	chr1:7945432 - 7967701	binding;protein folding;Ras protein signal transduction;response to hydrogen peroxide	Tumor Suppressor, Entrez Query:Oncogene
22800	RRAS2	related RAS viral (r-ras) oncogene homolog 2	NM_012250	NP_001096139.1	ENSG00000133818	chr11:14257458 - 14336992	activity;intracellular;nucleotide binding;plasma membrane;protein binding;Ras protein signal transduction	Entrez Query:Oncogene
22808	MRAS	muscle RAS oncogene homolog	NM_012219	NP_036351.3	ENSG00000158186	chr3:139574415 - 139603801	binding;GTPase activity;intracellular;multicellular organismal development;muscle development;nucleotide binding;plasma membrane;Ras protein signal transduction	Entrez Query:Oncogene
22931	RAB18	RAB18, member RAS oncogene family	NM_021252	NP_067075.1	ENSG00000099246	chr10:27833304 - 27866986	activity;intracellular;membrane;nucleotide binding;protein transport;regulation of transcription, DNA-dependent;small GTPase mediated signal	Entrez Query:Oncogene
22950	SLC4A1AP	(anion exchanger), member 1, adaptor	NM_018158	NP_060628.2	ENSG00000163798	chr2:27740123 - 27771054	double-stranded RNA binding;intracellular;nucleus	Entrez Query:Oncogene
22954	TRIM32	tripartite motif-containing 32	NM_012210	NP_036342.2	ENSG00000119401	chr9:118499842 - 118501804	intracellular;ligase activity;metal ion binding;nucleus;protein binding;transcription coactivator activity;ubiquitin cycle;zinc ion binding	Stability, Entrez Query:Oncogene
23011	RAB21	RAB21, member RAS oncogene family	NM_014999	NP_055814.1	ENSG00000080371	chr12:70435176 - 70465720	endosome;GTP binding;nucleotide binding;protein transport;small GTPase mediated signal transduction	Entrez Query:Oncogene
23017	FAIM2	Fas apoptotic inhibitory molecule 2	NM_012306	NP_036438.2	ENSG00000135472	chr12:48550553 - 48583842	anti-apoptosis;apoptosis;cellular_component;integral to membrane;membrane;protein binding	Entrez Query:Oncogene
23081	JMJD2C	jumonji domain containing 2C	NM_015061	NP_055876.2	ENSG00000107077	chr9:6782988 - 7164729	binding;metal ion binding;molecular_function;nucleic acid binding;nucleus;oxidoreductase activity;oxidoreductase activity, acting on single	Entrez Query:Oncogene
23089	PEG10	paternally expressed 10	NM_015068	NP_055883.2	ENSG00000198872	chr7:94130804 - 94132930	cytoplasm;negative regulation of transforming growth factor beta receptor signaling pathway;nucleic acid binding;protein binding;zinc ion binding	Entrez Query:Oncogene
23373	CRTC1	transcription coactivator 1	NM_001098482, NM_015321	NP_001091952.1, NP_056136.2	ENSG00000105662	chr19:18655512 - 18749192	transcription from RNA polymerase II promoter;protein binding;regulation of transcription, DNA-dependent;transcription	Mitelman 2000, Entrez Query:Oncogene
23585	TMEM50A	transmembrane protein 50A	NM_014313	NP_055128.1	ENSG00000183726	chr1:25539564 - 25559783	cytoplasm;endoplasmic reticulum;integral to membrane;membrane	Entrez Query:Oncogene
23598	PATZ1	POZ (BTB) and AT hook containing zinc finger 1	NM_032050, NM_014323,	NP_114439.1, NP_055138.2,	ENSG00000100105	chr22:30052876 - 30071588	transcription, DNA-dependent;transcription;transcriptional repressor activity;zinc ion binding	Futreal et al 2004, Mitelman 2000, Entrez
23624	CBLC	ecotropic retroviral transforming sequence c	NM_012116	NP_036248.3	ENSG00000142273	chr19:49973028 - 49995540		EGFR1, Entrez Query:Oncogene
23682	RAB38	RAB38, member RAS oncogene family	NM_022337	NP_071732.1	ENSG00000123892	chr11:87486803 - 87548200	cellular_component;GTP binding;GTPase activity;membrane;nucleotide binding;protein transport;small GTPase mediated signal transduction	Entrez Query:Oncogene
23764	MAFF	musculoaponeurotic fibrosarcoma oncogene	NM_012323	NP_690617.1	ENSG00000185022	chr22:36939806 - 36940831	activity;regulation of epidermal cell differentiation;regulation of transcription, DNA-dependent;sequence-specific DNA binding;transcription;transcription factor	Entrez Query:Oncogene
25837	RAB26	RAB26, member RAS oncogene family	NM_014353	NP_055168.2	ENSG00000167964	chr16:2138785 - 2143423	development;GTP binding;intracellular;intrinsic to plasma membrane;membrane;nucleotide binding;protein transport;regulation of	Entrez Query:Oncogene
25875	LETMD1	LETMD1 domain containing 1	NM_001024668, NM_015416	NP_001019839.1, NP_056231.3	ENSG00000050426	chr12:49728406 - 49739481		Tumor Suppressor, Entrez Query:Oncogene
26127	FGFR1OP2	FGFR1 oncogene partner 2	NM_015633	NP_056448.1	ENSG00000111790	chr12:26998358 - 27008933		Entrez Query:Oncogene
27043	PELP1	and leucine rich protein 1	NM_014389	NP_055204.2		chr17:4521482 - 4554155	nucleus;transcription	Entrez Query:Oncogene
27069	GHITM	inducible transmembrane protein	NM_014394	NP_055209.2	ENSG00000165678	chr10:85891236 - 85902084	biological_process;integral to membrane;membrane;mitochondrion;molecular_function	Entrez Query:Oncogene
27113	BBC3	BCL2 binding component 3	NM_001127240, NM_001127242,	NP_001120712.1, NP_001120714.1,	ENSG00000105327	chr19:52416898 - 52423528	apoptosis;caspase activation;induction of apoptosis;mitochondrion;negative regulation of growth;protein binding;release of cytochrome c from mitochondria	Entrez Query:Oncogene
27173	SLC39A1	(zinc transporter), member 1	NM_014437	NP_055252.2	ENSG00000143570	chr1:152199197 - 152201815	activity;endoplasmic reticulum;integral to membrane;ion transport;membrane;membrane fraction;metal ion transport;metal ion transporter	Tumor Suppressor, Entrez Query:Oncogene
27250	PDCD4	(neoplastic transformation inhibitor)	NM_145341, NM_014456	NP_663314.1, NP_055271.2	ENSG00000150593	chr10:112625775 - 112647836	activity;negative regulation of progression through cell cycle;negative regulation of transcription;nucleus;protein binding;RNA binding	Tumor Suppressor, Entrez Query:Oncogene
27257	LSM1	nuclear RNA associated (S. cerevisiae)	NM_014462	NP_055277.1	ENSG00000175324	chr8:38140344 - 38152995	mRNA processing;nucleus;protein binding;ribonucleoprotein complex;RNA splicing;RNA splicing factor activity, transesterification mechanism	Entrez Query:Oncogene

27314	RAB30	RAB30, member RAS oncogene family	NM_014488	NP_055303.2	ENSG00000137502	chr11:82370854 - 82386006	Golgi stack;GTP binding;GTPase activity;membrane;nucleotide binding;protein transport;small GTPase mediated signal transduction	Entrez Query:Oncogene
28951	TRIB2	tribbles homolog 2 (Drosophila)	NM_021643	NP_067675.1	ENSG00000071575	chr2:12775884 - 12798371	phosphorylation;protein binding;protein kinase activity;protein kinase inhibitor activity;regulation of MAPK activity	Protein Kinase, Entrez Query:Oncogene
29126	CD274	CD274 molecule	NM_014143	NP_054862.1	ENSG00000120217	chr9:5446113 - 5457862	cell proliferation;cell surface receptor linked signal transduction;immune response;integral to membrane;membrane;receptor activity	Entrez Query:Oncogene
29933	GPR132	G protein-coupled receptor 132	NM_013345	NP_037477.1	ENSG00000183484	chr14:104588375 - 104592802	cycle;integral to membrane;membrane;receptor activity;rhodopsin-like receptor activity;signal transduction	Entrez Query:Oncogene
30011	SH3KBP1	SH3-domain kinase binding protein 1	NM_031892, NM_001024666	NP_114098.1, NP_001019837.1	ENSG00000147010	chrX:19464455 - 19815349	apoptosis;cell-cell signaling;endocytosis;kinase activity;membrane;molecular_function;protein binding;synapse;synaptosome	EGFR1, Kit Receptor, Entrez Query:Oncogene
50943	FOXP3	forkhead box P3	NM_014009, NM_001114377	NP_054728.2, NP_001107849.1	ENSG00000049768	chrX:48994738 - 49001906	transcription factor;inhibition of NF-kappaB transcription factor;intracellular;metal ion binding;negative regulation of activated T cell proliferation;negative regulation	Suppressor, Entrez Query:Oncogene
51209	RAB9B	RAB9B, member RAS oncogene family	NM_016370	NP_057454.1	ENSG00000123570	chrX:102966764 - 102967370	binding;membrane;nucleotide binding;protein transport;small GTPase mediated signal transduction	Entrez Query:Oncogene
51341	ZBTB7A	zinc finger and BTB domain containing 7A	NM_015898	NP_056982.1	ENSG00000178951	chr19:3998749 - 4006230	binding;intracellular;metal ion binding;negative regulation of transcription, DNA-dependent;nucleus;protein binding;transcription;transcriptional repressor	Tumor Suppressor, Entrez Query:Oncogene
51513	ETV7	ets variant gene 7 (TEL2 oncogene)	NM_016135	NP_057219.1	ENSG00000010030	chr6:36442399 - 36463296	dependent;sequence-specific DNA binding;specific RNA polymerase II transcription factor activity;transcription;transcription factor activity;transcription from RNA	Entrez Query:Oncogene
51552	RAB14	RAB14, member RAS oncogene family	NM_016322	NP_057406.2	ENSG00000119396	chr9:122983494 - 122995511	binding;GTPase activity;intracellular;intracellular transport;late endosome;lysosome;membrane fraction;neurotransmitter secretion;nuclear	Entrez Query:Oncogene
51560	RAB6B	RAB6B, member RAS oncogene family	NM_016577	NP_057661.3	ENSG00000154917	chr3:135030321 - 135097000	activity;nucleotide binding;protein transport;retrograde vesicle-mediated transport, Golgi to ER;small GTPase mediated signal transduction	Entrez Query:Oncogene
51643	TMBIM4	inhibitor motif containing 4	NM_016056	NP_057140.2	ENSG00000155957	chr12:64818006 - 64849998	integral to membrane;membrane;protein binding	Entrez Query:Oncogene
51715	RAB23	RAB23, member RAS oncogene family	NM_183227	NP_899050.1	ENSG00000112210	chr6:57163217 - 57183137	proteolysis;nervous system development;nucleotide binding;protein transport;signal transduction;small GTPase mediated signal transduction;spinal cord	Hedgehog, Entrez Query:Oncogene
51762	RAB8B	RAB8B, member RAS oncogene family	NM_016530	NP_057614.1	ENSG00000166128	chr15:61268876 - 61342871	activity;intracellular;membrane;nucleotide binding;protein transport;regulation of transcription, DNA-dependent;small GTPase mediated signal	Entrez Query:Oncogene
51773	RSF1	remodeling and spacing factor 1	NM_016578	NP_057662.3	ENSG00000048649	chr11:77055609 - 77209408	regulation of DNA binding;negative regulation of transcription, DNA-dependent;nucleosome assembly;nucleosome spacing;nucleus;positive regulation	Entrez Query:Oncogene
53335	BCL11A	B-cell CLL/lymphoma 11A (zinc finger protein)	NM_138559, NM_018014	NP_612569.1, NP_060484.2	ENSG00000119866	chr2:60541042 - 60633909	binding;nucleus;regulation of transcription, DNA-dependent;transcription;zinc ion binding	Mitelman 2000, Entrez Query:Oncogene,
53916	RAB4B	RAB4B, member RAS oncogene family	NM_016154	NP_057238.3	ENSG00000167578	chr19:45976120 - 45984708	GTP binding;GTPase activity;intracellular;membrane;nucleotide binding;protein transport;small GTPase mediated signal transduction;vesicle-mediated transport	Entrez Query:Oncogene
53917	RAB24	RAB24, member RAS oncogene family	NM_001031677	NP_570137.2	ENSG00000169236	chr5:176661349 - 176662895	autophagy;endoplasmic reticulum;GTP binding;membrane;nucleotide binding;protein transport;small GTPase mediated signal transduction	Entrez Query:Oncogene
54165	DCUN1D1	neddylaton 1, domain containing 1 (S.	NM_020640	NP_065691.2	ENSG00000043093	chr3:184145575 - 184180971	biological_process;cellular_component;molecular_function	Entrez Query:Oncogene
54206	ERRFI1	ERBB receptor feedback inhibitor 1	NM_018948	NP_061821.1	ENSG00000116285	chr1:7995856 - 7998266	cytoplasm;protein binding;response to stress;Rho GTPase activator activity	Tumor Suppressor, Entrez Query:Oncogene
54734	RAB39	RAB39, member RAS oncogene family	NM_017516	NP_059986.1	ENSG00000179331	chr11:107304504 - 107338308	biological_process;cellular_component;GTP binding;membrane;nucleotide binding;protein transport;small GTPase mediated signal transduction	Entrez Query:Oncogene
54738	FEV	FEV (ETS oncogene family)	NM_017521	NP_059991.1	ENSG00000163497	chr2:219554632 - 219558041	binding;transcription corepressor activity;transcription factor activity;transcription from RNA polymerase II promoter	Mitelman 2000, Entrez Query:Oncogene,
54790	TET2	KIAA1546	NM_001127208, NM_017628	NP_001120680.1, NP_060098.3	ENSG00000168769	chr4:106374548 - 106417125		Entrez Query:Oncogene
55038	CDCA4	cell division cycle associated 4	NM_145701	NP_663747.1	ENSG00000170779	chr14:104548585 - 104549311	nucleus	Entrez Query:Oncogene
55165	CEP55	centrosomal protein 55kDa	NM_018131, NM_001127182	NP_060601.3, NP_001120654.1	ENSG00000138180	chr10:95249798 - 95277900	cell cycle;cell division;mitosis	Entrez Query:Oncogene
55359	STYK1	serine/threonine/tyrosine kinase 1	NM_018423	NP_060893.2	ENSG00000060140	chr12:10664009 - 10678484	ATP binding;integral to membrane;nucleotide binding;plasma membrane;protein amino acid phosphorylation;protein-tyrosine kinase activity;transferase activity	Kinase, Entrez Query:Oncogene
55647	RAB20	RAB20, member RAS oncogene family	NM_017817	NP_060287.1	ENSG00000139832	chr13:109974012 - 110011867	GTP binding;nucleotide binding;protein transport;small GTPase mediated signal transduction	Entrez Query:Oncogene

56832	IFNK	interferon, kappa	NM_020124	NP_064509.2	ENSG00000147896	chr9:27514334 - 27514958	region;extracellular space;interferon-alpha/beta receptor binding;natural killer cell activation;negative regulation of cell proliferation;positive regulation of innate	Entrez Query:Oncogene
56899	ANKS1B	sterile alpha motif domain containing 1B	NM_152788, NM_020140	NP_690001.3, NP_064525.1	ENSG00000185046	chr12:97653468 - 98902146		Entrez Query:Oncogene
56946	C11orf30	chromosome 11 open reading frame 30	NM_020193	NP_064578.2	ENSG00000158636	chr11:75835630 - 75938838	chromatin modification;DNA repair;nucleus;regulation of transcription, DNA-dependent;transcription	Stability, Entrez Query:Oncogene
57016	AKR1B10	family 1, member B10 (aldose reductase)	NM_020299	NP_064695.3	ENSG00000198074	chr7:133863203 - 133876381	activity;cellular_component;digestion;oxidoreductase activity;steroid metabolic process	Suppressor, Entrez Query:Oncogene
57111	RAB25	RAB25, member RAS oncogene family	NM_020387	NP_065120.2	ENSG00000132698	chr1:154297815 - 154306702	GTP binding;membrane;nucleotide binding;protein binding;protein transport;small GTPase mediated signal transduction	Entrez Query:Oncogene
57118	CAMK1D	dependent protein kinase ID	NM_153498, NM_020397	NP_705718.1, NP_065130.1	ENSG00000183049	chr10:12431823 - 12910892	complex;calmodulin binding;nucleotide binding;nucleus;protein amino acid phosphorylation;protein serine/threonine kinase activity;transferase activity	Protein Kinase, Entrez Query:Oncogene
57120	GOPC	coiled-coil motif containing			ENSG00000047932	chr6:null	binding;cytoplasm;cytoplasmic sequestering of CFTR protein;ER to Golgi vesicle-mediated transport;Golgi apparatus;Golgi to plasma membrane	Mitelman 2000, Entrez Query:Oncogene
57403	RAB22A	RAB22A, member RAS oncogene family	NM_020673	NP_065724.1	ENSG00000124209	chr20:56318438 - 56368165	binding;GTPase activity;nucleotide binding;plasma membrane;protein binding;protein transport;small GTPase mediated signal transduction	Entrez Query:Oncogene
57799	RAB40C	RAB40C, member RAS oncogene family	NM_021168	NP_066991.2	ENSG00000197562	chr16:580292 - 617623	GTP binding;membrane;nucleotide binding;protein transport;small GTPase mediated signal transduction	Entrez Query:Oncogene
57826	RAP2C	RAP2C, member of RAS oncogene family	NM_021183	NP_067006.3	ENSG00000123728	chrX:131175876 - 131178977	GTP binding;intracellular;membrane;nucleotide binding;small GTPase mediated signal transduction	Entrez Query:Oncogene
60385	TSKS	-	NM_021733	NP_068379.1	ENSG00000126467	chr19:54934844 - 54958316	protein binding	Entrez Query:Oncogene
60468	BACH2	1, basic leucine zipper transcription factor 2	NM_021813	NP_068585.1	ENSG00000112182	chr6:90698847 - 90775284	DNA-dependent;sequence-specific DNA binding;transcription;transcription factor activity	Entrez Query:Oncogene
63967	CLSPN	claspin homolog (Xenopus laevis)	NM_022111	NP_071394.2	ENSG00000092853	chr1:35974683 - 36008058	biological_process;cell cycle;cellular_component;chromosome;DNA binding;DNA repair;nucleus;protein binding	Suppressor, Entrez Query:Oncogene
64083	GOLPH3	golgi phosphoprotein 3 (coat-protein)	NM_022130	NP_071413.1	ENSG00000113384	chr5:32162074 - 32209897	Golgi apparatus;membrane	Entrez Query:Oncogene
64114	TMBIM1	inhibitor motif containing 1	NM_022152	NP_071435.2	ENSG00000135926	chr2:218848441 - 218855108	integral to membrane;membrane	Entrez Query:Oncogene
64284	RAB17	RAB17, member RAS oncogene family	NM_022449	NP_071894.1	ENSG00000124839	chr2:238148400 - 238159536	GTP binding;intracellular;membrane;nucleotide binding;protein binding;protein transport;small GTPase mediated signal transduction	Entrez Query:Oncogene
64792	RABL5	RAB, member RAS oncogene family-like 5	NM_022777	NP_073614.1	ENSG00000128581	chr7:100745134 - 100751710	GTP binding;nucleotide binding	Entrez Query:Oncogene
64927	TTC23	tetratricopeptide repeat domain 23	NM_022905	NP_075056.3	ENSG00000103852	chr15:97495737 - 97586440	binding	Entrez Query:Oncogene
64963	MRPS11	mitochondrial ribosomal protein S11	NM_176805, NM_022839	NP_789775.1, NP_073750.2	ENSG00000181991	chr15:86811952 - 86822214	ribosomal subunit;mitochondrion;peptide biosynthetic process;ribosome;structural constituent of ribosome;translation	Entrez Query:Oncogene
65991	FUNDC2	FUN14 domain containing 2	NM_023934	NP_076423.2	ENSG00000165775	chrX:153908407 - 153936141		Entrez Query:Oncogene
79577	CDC73	Paf1/RNA polymerase II complex component,	NM_024529	NP_078805.3	ENSG00000134371	chr1:191357953 - 191486465	cell cycle;negative regulation of progression through cell cycle;nucleus;protein binding;transcription	2004, Tumor Suppressor, Entrez Query:Oncogene
80312	TET1	CXXC finger 6	NM_030625	NP_085128.2	ENSG00000138336	chr10:70002101 - 70121577	DNA binding;metal ion binding;nucleus;zinc ion binding	Mitelman 2000, Entrez Query:Oncogene,
81876	RAB1B	RAB1B, member RAS oncogene family	NM_030981	NP_112243.1	ENSG00000174903	chr11:65792726 - 65800285	binding;protein binding;protein transport;regulation of transcription, DNA-dependent;small GTPase mediated signal transduction;transcription factor binding	Entrez Query:Oncogene
83452	RAB33B	RAB33B, member RAS oncogene family	NM_031296	NP_112586.1	ENSG00000172007	chr4:140594799 - 140613730	Golgi apparatus;GTP binding;nucleotide binding;protein transport;small GTPase mediated signal transduction	Entrez Query:Oncogene
83871	RAB34	RAB34, member RAS oncogene family	NM_031934	NP_114140.4	ENSG00000109113	chr17:24065787 - 24068411	GTP binding;membrane;nucleotide binding;protein transport;small GTPase mediated signal transduction	Entrez Query:Oncogene
84084	RAB6C	RAB6C, member RAS oncogene family	NM_032144	NP_115520.2	ENSG00000185023	chr2:130454158 - 130454923	GTP binding;GTPase activity;intracellular;nucleotide binding;protein transport;response to drug;small GTPase mediated signal transduction	Entrez Query:Oncogene
84433	CARD11	domain family, member 11	NM_032415	NP_115791.3	ENSG00000198286	chr7:2912797 - 2964666		Entrez Query:Oncogene

84441	MAML2	mastermind-like 2 (Drosophila)	NM_032427	NP_115803.1		chr11:95351759 - 95714707	polymerase II promoter;regulation of transcription, DNA-dependent;transcription;transcription coactivator activity	Mitelman 2000, Entrez Query:Oncogene,
84932	RAB2B	RAB2B, member RAS oncogene family	NM_032846	NP_116235.2	ENSG00000129472	chr14:20999194 - 21014871	binding;membrane;nucleotide binding;protein transport;small GTPase mediated signal transduction	Entrez Query:Oncogene
92140	MTDH	metadherin	NM_178812	NP_848927.2	ENSG00000147649	chr8:98725910 - 98806074	endoplasmic reticulum;integral to membrane;membrane;nucleus	Entrez Query:Oncogene
113201	CASC4	cancer susceptibility candidate 4	NM_177974, NM_138423	NP_816929.1, NP_612432.2	ENSG00000166734	chr15:42368519 - 42492896		Entrez Query:Oncogene
114614	NR_001458	-				chr21:null		Entrez Query:Oncogene
115273	RAB42	RAB42, member RAS oncogene family	NM_152304	NP_689517.1	ENSG00000188060	chr1:28792898 - 28793216	GTP binding;membrane;nucleotide binding;small GTPase mediated signal transduction	Entrez Query:Oncogene
115827	RAB3C	RAB3C, member RAS oncogene family	NM_138453	NP_612462.1	ENSG00000152932	chr5:57914792 - 58182935	transport;regulation of exocytosis;small GTPase mediated signal transduction;synaptic vesicle	Entrez Query:Oncogene
116442	RAB39B	RAB39B, member RAS oncogene family	NM_171998	NP_741995.1	ENSG00000155961	chrX:154143281 - 154146767	GTP binding;intracellular;membrane;nucleotide binding;protein transport;small GTPase mediated signal transduction	Entrez Query:Oncogene
116511	MAS1L	MAS1 oncogene-like	NM_052967	NP_443199.1	ENSG00000168771	chr6:29562521 - 29563658	membrane;membrane;receptor activity;rhodopsin-like receptor activity;signal transduction	Entrez Query:Oncogene
116986	CENTG1	centaurin, gamma 1	NM_001122772, NM_014770	NP_001116244.1, NP_055585.1	ENSG00000135439	chr12:56406601 - 56418296	binding;nucleotide binding;nucleus;protein transport;regulation of GTPase activity;signal transduction;small GTPase mediated signal transduction;zinc ion	Protein Kinase, Entrez Query:Oncogene
117159	DCD	dermcidin	NM_053283	NP_444513.1	ENSG00000161634	chr12:53324763 - 53328354	defense response to bacterium;defense response to fungus;extracellular region;manganese ion binding;protein binding;xenobiotic metabolic process	Entrez Query:Oncogene
128869	PIGU	glycan anchor biosynthesis, class U	NM_080476	NP_536724.1	ENSG00000101464	chr20:32612330 - 32728550	membrane;GPI anchor binding;GPI-anchor transamidase activity;GPI-anchor transamidase complex;integral to membrane;membrane	Entrez Query:Oncogene
132851	SPATA4	spermatogenesis associated 4	NM_144644	NP_653245.2	ENSG00000150628	chr4:177342924 - 177353707	apoptosis;cellular_component;molecular_function;spermatogenesis	Entrez Query:Oncogene
140707	BRI3BP	BRI3 binding protein	NM_080626	NP_542193.3	ENSG00000184992	chr12:124044289 - 124075929	integral to membrane;membrane	Entrez Query:Oncogene
142684	RAB40A	RAB40A, member RAS oncogene family	NM_080879	NP_543155.2	ENSG00000172476	chrX:102641506 - 102642340	GTP binding;membrane;nucleotide binding;protein transport;small GTPase mediated signal transduction	Entrez Query:Oncogene
146691	TOM1L2	target of myb1-like 2 (chicken)	NM_001082968, NM_001033551	NP_001076437.1, NP_001028723.1	ENSG00000175662	chr17:17691673 - 17816352	intracellular;intracellular protein transport;membrane	Entrez Query:Oncogene
158158	RASEF	RAS and EF-hand domain containing	NM_152573	NP_689786.2	ENSG00000165105	chr9:84787411 - 84867602	calcium ion binding;GTP binding;protein transport;small GTPase mediated signal transduction	Entrez Query:Oncogene
200424	TET3	-	NM_144993	NP_659430.1	ENSG00000187605	chr2:74126957 - 74182811		Entrez Query:Oncogene
200958	MUC20	mucin 20, cell surface associated	NM_152673, NM_001098516	NP_689886.2, NP_001091986.1		chr3:196933549 - 196945760	basal plasma membrane;glucan 1,4-alpha-glucosidase activity;protein homooligomerization	Entrez Query:Oncogene
201475	RAB12	RAB12, member RAS oncogene family	NM_001025300	NP_001020471.2		chr18:8599725 - 8628260	GTP binding;nucleotide binding;protein transport;small GTPase mediated signal transduction	Entrez Query:Oncogene
266747	RGL4	-	NM_153615	NP_705843.1	ENSG00000159496	chr22:22364217 - 22371070	guanyl-nucleotide exchange factor activity;intracellular;small GTPase mediated signal transduction	Entrez Query:Oncogene
282808	RAB40AL	-	NM_001031834	NP_001027004.1		chrX:102078902 - 102079739		Entrez Query:Oncogene
282991	BLOC1S2	related organelles complex-1, subunit 2	NM_173809	NP_001001342.1	ENSG00000196072	chr10:102025208 - 102036406	identical protein binding	Entrez Query:Oncogene
283120	H19	maternally expressed untranslated mRNA				chr11:null		Tumor Suppressor, Entrez Query:Oncogene
283349	RASSF3	(RalGDS/AF-6) domain family 3	NM_178169	NP_835463.1	ENSG00000153179	chr12:63290679 - 63374959	microtubule;protein binding;signal transduction	Entrez Query:Oncogene
284459	HKR1	GLI-Kruppel family member HKR1	NM_181786	NP_861451.1	ENSG00000181666	chr19:42527426 - 42546517	development;nucleic acid binding;nucleus;regulation of transcription, DNA-dependent;transcription;zinc ion binding	Entrez Query:Oncogene
285282	RABL3	RAB, member of RAS oncogene family-like 3	NM_173825	NP_776186.2	ENSG00000144840	chr3:121891359 - 121944044	ATP binding;GTP binding;intracellular;regulation of transcription, DNA-dependent;small GTPase mediated signal transduction;transcription factor binding	Entrez Query:Oncogene

326624	RAB37	RAB37, member RAS oncogene family	NM_001006638, NM_175738	NP_001006639.1, NP_783865.1	ENSG00000172794	chr17:70245006 - 70253145	binding;protein binding;protein transport;secretory granule;small GTPase mediated signal transduction	Entrez Query:Oncogene
339122	RAB43	RAB43, member RAS oncogene family	NM_020701, NM_198490	NP_065752.1, NP_940892.1	ENSG00000172780	chr3:130292628 - 130323022	transport;membrane;nucleocytoplasmic transport;nucleotide binding;protein binding;signal transduction;small GTPase mediated signal transduction	Entrez Query:Oncogene
345930	C6orf91	-	NM_001077706	NP_001071174.1		chr6:139176104 - 139265457	chitin binding;chitin metabolic process;extracellular region;intracellular;regulation of Rho protein signal transduction;Rho guanyl-nucleotide exchange factor activity	Entrez Query:Oncogene
347517	RAB41	RAB41, member RAS oncogene family	NM_001032726	NP_001027898.1	ENSG00000147127	chrX:69418792 - 69421218	GTP binding;nucleotide binding;protein transport;small GTPase mediated signal transduction	Entrez Query:Oncogene
376267	RAB15	RAB15, member RAS onocogene family	NM_198686	NP_941959.1	ENSG00000139998	chr14:64484967 - 64508547	GTP binding;membrane;nucleotide binding;protein transport;small GTPase mediated signal transduction	Entrez Query:Oncogene
389692	MAFA	musculoaponeurotic fibrosarcoma oncogene	NM_201589	NP_963883.2	ENSG00000182759	chr8:144582657 - 144583719	activity;regulation of transcription, DNA-dependent;response to glucose stimulus;sequence-specific DNA binding;transcription factor activity	Stability, Entrez Query:Oncogene
401409	RAB19	-	NM_001008749	NP_001008749.1	ENSG00000146955	chr7:139753915 - 139772419	GTP binding;nucleotide binding;small GTPase mediated signal transduction	Entrez Query:Oncogene
414060	TBC1D3C	TBC1 domain family, member 3C	NM_001001418	NP_001001418.2, NP_001035372.2	ENSG00000188849	chr17:31605512 - 31614567		Entrez Query:Oncogene
415116	PIM3	pim-3 oncogene	NM_001001852	NP_001001852.2	ENSG00000198355	chr22:48740599 - 48742779	ATP binding;nucleotide binding;protein amino acid phosphorylation;protein kinase activity;protein serine/threonine kinase activity;transferase activity	Protein Kinase, Entrez Query:Oncogene
646996	NR_003543	-				chr14:null	GTP binding;protein transport;small GTPase mediated signal transduction	Entrez Query:Oncogene