

Nerve sheath tumors

c2.REACTOME CYTOSOLIC IRON SULFUR CLUSTER ASSEMBLY
c2.SCHAEFFER PROSTATE DEVELOPMENT AND CANCER BOX3
c2.REACTOME CHEMOKINE RECEPTORS BIND CHEMOKINES
c2.REACTOME SIGNALLING TO P38 VIA RIT AND RIN
c2.KORKOLA EMBRYONIC CARCINOMA VS SEMINOMA UP
c2.CHIANG LIVER CANCER SUBCLASS INTERFERON UP
c2.REACTOME CALCITONIN LIKE LIGAND RECEPTORS
c2.RANKIN ANGIOGENIC TARGETS OF VHL HIF2A UP
c2.REACTOME TRANSPORT AND SYNTHESIS OF PAPS
c2.REACTOME SARS COV 2 MODULATES AUTOPHAGY
c2.BARRIER CANCER RELAPSE TUMOR SAMPLE DN
c2.REACTOME DEFECTIVE GALNT3 CAUSES HFTC
c2.MYLLYKANGAS AMPLIFICATION HOT SPOT 24
c2.FIGUEROA AML METHYLATION CLUSTER 7 DN
c2.WANG ESOPHAGUS CANCER PROGRESSION UP
c2.VANDESLUIS COMMD1 TARGETS GROUP 4 UP
c2.DUNNE TARGETS OF AML1 MTG8 FUSION UP
c2.ZHOU PANCREATIC EXOCRINE PROGENITOR
c2.LOPES METHYLATED IN COLON CANCER UP
c2.REACTOME TRIGLYCERIDE BIOSYNTHESIS
c2.REACTOME SYNTHESIS OF LIPOXINS LX
c2.SIMBULAN UV RESPONSE NORMAL UP
c2.RICKMAN HEAD AND NECK CANCER B
c2.REACTOME PYRIMIDINE CATABOLISM
c2.MEISSNER NPC HCP WITH H3K27ME3
c2.KORKOLA EMBRYONAL CARCINOMA DN
c2.HOLLERN PAPILLARY BREAST TUMOR
c2.MIKI COEXPRESSED WITH CYP19A1
c2.KEGG OTHER GLYCAN DEGRADATION
c2.WORSCHERCH TUMOR REJECTION DN
c2.LEE INTRATHYMIC T PROGENITOR
c2.BIOCARTA BLYMPHOCYTE PATHWAY
c2.YIH RESPONSE TO ARSENITE C5
c2.WALLACE PROSTATE CANCER DN
c2.NADELLA PRKAR1A TARGETS DN
c2.LI CISPLATIN RESISTANCE UP
c2.KORKOLA CHORIOCARCINOMA DN
c2.BIOCARTA CYTOKINE PATHWAY
c2.PETROVA PROX1 TARGETS DN
c2.VANLOO SP3 TARGETS UP
c2.MAINA VHL TARGETS UP
c2.LEI HOXC8 TARGETS UP
c2.REACTOME UREA CYCLE
c2.KORKOLA SEMINOMA DN

c3.ZNF112 TARGET GENES
c3.MAP2K1 TARGET GENES
c3.PAX5 02

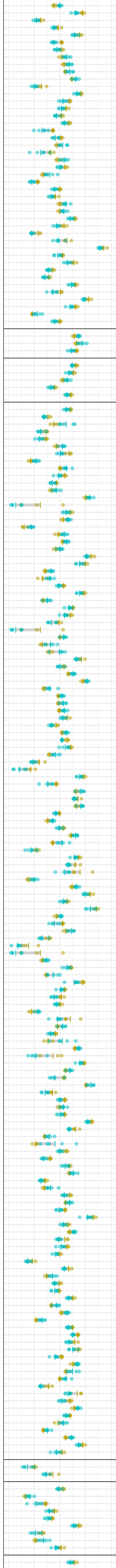
c4.GAVISH 3CA METAPROGRAM CD4 T CELLS DYSFUNCTION
c4.GAVISH 3CA METAPROGRAM FIBROBLASTS CAF 10
c4.MODULE 514
c4.MODULE 108
c4.GNF2 SNRK

c5.GOCC G PROTEIN COUPLED RECEPTOR DIMERIC COMPLEX
c5.GOBP SENSORY PERCEPTION OF TEMPERATURE STIMULUS
c5.GOMF DIACYLGLYCEROL O ACYLTRANSFERASE ACTIVITY
c5.GOMF ACETYLCHOLINE RECEPTOR INHIBITOR ACTIVITY
c5.GOBP URINARY BLADDER SMOOTH MUSCLE CONTRACTION
c5.GOBP REGULATION OF BILE ACID METABOLIC PROCESS
c5.GOBP POSITIVE REGULATION OF KIDNEY DEVELOPMENT
c5.GOBP CHORIONIC TROPHOBLAST CELL PROLIFERATION
c5.HP ABNORMALITY OF CHORIORETINAL PIGMENTATION
c5.GOMF LYSOPHOSPHATIDIC ACID RECEPTOR ACTIVITY
c5.GOBP METANEPHRIC RENAL VESICLE MORPHOGENESIS
c5.GOBP INTRACELLULAR MAGNESIUM ION HOMEOSTASIS
c5.GOBP ADIPONECTIN ACTIVATED SIGNALING PATHWAY
c5.GOCC IGA IMMUNOGLOBULIN COMPLEX CIRCULATING
c5.GOBP SYMPATHETIC NERVOUS SYSTEM DEVELOPMENT
c5.HP SANDWICH APPEARANCE OF VERTEBRAL BODIES
c5.GOMF FATTY ACID OMEGA HYDROXYLASE ACTIVITY
c5.GOBP REGULATION OF CORTICOTROPIN SECRETION
c5.GOBP PHOSPHATE ION TRANSMEMBRANE TRANSPORT
c5.HP HYPERPIGMENTATION IN SUN EXPOSED AREAS
c5.HP ATYPICAL NEVI IN NON SUN EXPOSED AREAS
c5.GOMF PHOSPHATIDYLSERINE FLIPPASE ACTIVITY
c5.GOBP SOMATIC MOTOR NEURON DIFFERENTIATION
c5.GOBP REGULATION OF CD40 SIGNALING PATHWAY
c5.GOBP MESENCHYMAL TO EPITHELIAL TRANSITION
c5.GOMF AMINOPHOSPHOLIPID FLIPPASE ACTIVITY
c5.GOBP INTESTINE SMOOTH MUSCLE CONTRACTION
c5.GOBP INFLAMMATORY CELL APOPTOTIC PROCESS
c5.GOBP GLUTATHIONE TRANSMEMBRANE TRANSPORT
c5.HP IMPAIRED RENAL CONCENTRATING ABILITY
c5.GOCC IMMUNOGLOBULIN COMPLEX CIRCULATING
c5.GOBP TRANSEPITHELIAL CHLORIDE TRANSPORT
c5.GOBP REGULATION OF MESODERM DEVELOPMENT
c5.GOBP REGULATION OF ASTROCYTE ACTIVATION
c5.GOBP NEGATIVE REGULATION OF FERROPTOSIS
c5.GOBP METANEPHRIC MESENCHYME DEVELOPMENT
c5.GOBP GLYCOSYLCERAMIDE CATABOLIC PROCESS
c5.GOBP GLUCOSYLCERAMIDE CATABOLIC PROCESS
c5.GOBP CELLULAR RESPONSE TO PEPTIDOGLYCAN
c5.GOMF NUCLEAR STEROID RECEPTOR ACTIVITY
c5.GOMF GTPASE ACTIVATING PROTEIN BINDING
c5.GOBP SENSORY PERCEPTION OF UMAMI TASTE
c5.GOBP METANEPHRIC NEPHRON MORPHOGENESIS
c5.GOBP DETECTION OF TEMPERATURE STIMULUS
c5.GOBP VACUOLAR TRANSMEMBRANE TRANSPORT
c5.GOBP REGULATION OF KIDNEY DEVELOPMENT
c5.GOBP INTESTINAL STEM CELL HOMEOSTASIS
c5.GOBP CELLULAR RESPONSE TO L GLUTAMATE
c5.HP ABNORMAL BLOOD ZINC CONCENTRATION
c5.GOMF CCR2 CHEMOKINE RECEPTOR BINDING
c5.GOBP AMINOPHOSPHOLIPID TRANSLOCATION
c5.HP PHOTOSENSITIVE MYOCLONIC SEIZURE
c5.HP OVARIAN PAPILLARY ADENOCARCINOMA
c5.GOBP CELLULAR HYPEROSMOTIC RESPONSE
c5.HP NON MEDULLARY THYROID CARCINOMA
c5.HP ABNORMAL ERYTHROCYTE PHYSIOLOGY
c5.GOBP MALONYL COA METABOLIC PROCESS
c5.GOBP KIDNEY MESENCHYME DEVELOPMENT
c5.HP NONCOMMUNICATING HYDROCEPHALUS
c5.HP CHORIORETINAL HYPOPIGMENTATION
c5.GOBP STEM CELL FATE SPECIFICATION
c5.GOBP SERTOLI CELL DIFFERENTIATION
c5.GOBP NEUTROPHIL APOPTOTIC PROCESS
c5.GOBP METANEPHRIC TUBULE FORMATION
c5.GOBP GONADAL MESODERM DEVELOPMENT
c5.GOBP GLYCOLIPID CATABOLIC PROCESS
c5.GOBP DETOXIFICATION OF COPPER ION
c5.GOBP THREONINE METABOLIC PROCESS
c5.GOBP MYCOTOXIN METABOLIC PROCESS
c5.GOBP GLYCOSIDE CATABOLIC PROCESS
c5.HP LIMITED NECK RANGE OF MOTION
c5.HP ENLARGED VESTIBULAR AQUEDUCT
c5.GOMF CYCLASE INHIBITOR ACTIVITY
c5.GOCC IGM IMMUNOGLOBULIN COMPLEX
c5.GOCC IGA IMMUNOGLOBULIN COMPLEX
c5.GOBP HEXOSE PHOSPHATE TRANSPORT
c5.GOBP AORTIC VALVE MORPHOGENESIS
c5.GOBP AMELOBLAST DIFFERENTIATION
c5.HP DUPLICATION OF RENAL PELVIS
c5.GOMF METAL ION SENSOR ACTIVITY
c5.GOBP RENAL VESICLE DEVELOPMENT
c5.GOBP METANEPHROS MORPHOGENESIS
c5.GOBP FORMATE METABOLIC PROCESS
c5.GOBP DUCTUS ARTERIOSUS CLOSURE
c5.GOBP ALDITOL CATABOLIC PROCESS
c5.HP LARGE POSTERIOR FONTANELLE
c5.HP ABNORMAL OOCYTE MORPHOLOGY
c5.GOCC GTPASE ACTIVATOR COMPLEX
c5.GOBP TYPE II HYPERSENSITIVITY
c5.GOBP SERTOLI CELL DEVELOPMENT
c5.GOBP POLYOL CATABOLIC PROCESS
c5.GOBP EPOXYGENASE P450 PATHWAY
c5.HP BRONCHIAL WALL THICKENING
c5.GOMF T CELL RECEPTOR BINDING
c5.GOBP REGULATION OF MEIOSIS I
c5.GOBP PYRIMIDINE DIMER REPAIR
c5.HP UROGENITAL SINUS ANOMALY
c5.HP PRIMARY HYPERCORTISOLISM
c5.GOCC NUCLEAR ENVELOPE LUMEN
c5.GOBP TRNA THIO MODIFICATION
c5.GOBP RESPONSE TO BLUE LIGHT
c5.GOBP PRONEPHROS DEVELOPMENT
c5.GOBP OTIC VESICLE FORMATION
c5.GOBP LYMPH NODE DEVELOPMENT
c5.HP PENOSCROTAL HYPOSPADIAS
c5.GOMF C C CHEMOKINE BINDING
c5.GOBP OTOLITH MORPHOGENESIS
c5.GOBP GLUTATHIONE TRANSPORT
c5.HP VACUOLATED LYMPHOCYTES
c5.HP LIMITED KNEE EXTENSION
c5.GOBP UTERUS MORPHOGENESIS
c5.GOBP TRIPEPTIDE TRANSPORT
c5.HP LACRIMAL DUCT ATRESIA
c5.HP 4 5 FINGER SYNDACTYLY
c5.HP 3 4 FINGER SYNDACTYLY
c5.GOBP SNORNA LOCALIZATION
c5.GOBP SEROTONIN SECRETION
c5.HP LARYNGEAL HYPOPLASIA
c5.GOCC WEIBEL PALADE BODY
c5.GOBP URETER DEVELOPMENT
c5.GOMF CHEMOKINE BINDING
c5.GOCC SYMMETRIC SYNAPSE
c5.GOCC STEREOCILUM BASE
c5.GOCC MON1 CCZ1 COMPLEX
c5.GOMF ARGININE BINDING
c5.HP OVARIAN CARCINOMA
c5.GOCC FASCIA ADHERENS
c5.HP URETHRAL FISTULA
c5.HP RECTAL POLYPOSIS
c5.HP CYANOTIC EPISODE
c5.GOCC GATOR2 COMPLEX
c5.GOCC CORVET COMPLEX
c5.GOBP DENTINOGENESIS
c5.HP ABNORMAL P WAVE
c5.GOMF OPSIN BINDING
c5.HP FETAL POLYURIA
c5.GOCC MMXD COMPLEX
c5.GOCC CILIARY BASE
c5.HP ANGIOKERATOMA
c5.GOMF FMN BINDING
c5.GOCC CIA COMPLEX
c5.GOBP FERROPTOSIS
c5.HP FACIAL TICS

c7.HOEK MONOCYTE 2011 2012 TIV ADULT 3DY DN
c7.CAO BLOOD FLUMIST AGE 05 14YO 7DY UP

c8.ZHONG PFC C2 SOX5 BCL11B POS EXCITATORY NEURON
c8.DESCARTES FETAL LIVER HEMATOPOIETIC STEM CELLS
c8.HE LIM SUN FETAL LUNG C1 LATE STALK CELL
c8.ZHONG PFC C3 PROX1 CCK POS INTERNEURON
c8.DESCARTES FETAL PLACENTA STROMAL CELLS
c8.TRAVAGLINI LUNG IGSF21 DENDRITIC CELL
c8.HE LIM SUN FETAL LUNG C2 DC3 CELL
c8.FAN EMBRYONIC CTX MICROGLIA 2
c8.BUSSLINGER GASTRIC TUFT CELLS

h.HALLMARK KRAS SIGNALING UP



resultant_genotype

- nf1 KO; pten KO; ink KO; atrx KO
- nf1 KO; pten KO; ink KO; atrx wt