## Spindle and epithelioid tumors C2. Vandesluis Normal Embryos Up C2.Mikkelsen Npc With Lcp H3k27me3 • • • • • • • **(10)** • (10) C2.Boyault Liver Cancer Subclass G23 Dn C2. Vetter Targets Of Prkca And Ets1 Dn C2.Reactome Butyrophilin Btn Family Interactions • **• ••** C2.Nick Response To Proc Treatment Up 0 0 0 C2.Reactome Intestinal Absorption C2.Schuhmacher Myc Targets Dn 00 0 C2.Gali Tp53 Targets Apoptotic Dn 0 0000 0 000 C2.Reactome Keratan Sulfate Degradation C2.Wp Iron Metabolism In Placenta C2.Wp Kininkallikrein Pathway 0000 C2.Biocarta Free Pathway C2.Kegg Sulfur Metabolism C2.Matzuk Spermatogonia C2. Takada Gastric Cancer Copy Number Up C2.Pid Lpa4 Pathway C2.Nikolsky Breast Cancer 19q13.4 Amplicon C2.Myllykangas Amplification Hot Spot 15 C2.Reactome Vitamin C Ascorbate Metabolism C2 **(0)** C2. Reactome Muscarinic Acetylcholine Receptors C2.Marks Acetylated Non Histone Proteins C2.Reactome Cellular Hexose Transport C2.Maina Hypoxia Vhl Targets Up C2.Kegg Medicus Reference Notch Mesp2 Signaling C2. Sartipy Blunted By Insulin Resistance Up C2.Wp Immune Infiltration In Pancreatic Cancer C2.Nojima Sfrp2 Targets Up 000 C2.Reactome Peptide Hormone Biosynthesis C2.Pyeon Hpv Positive Tumors Dn C2.Rankin Angiogenic Targets Of Vhl Hif2a Up C2.Reactome Digestion Of Dietary Carbohydrate C2.Hollern Solid Nodular Breast Tumor Up **♦0 ♦** • C2. Cursons Natural Killer Cells C2.Gho Atf5 Targets Up C2.Wang Thoc1 Targets Up C2.Begum Targets Of Pax3 Foxo1 Fusion And Pax3 C2.Kondo Colon Cancer Hcp With H3k27me3 **•** • • C2.Ji Carcinogenesis By Kras And Stk11 Up C2. Davicioni Pax Foxo1 Signature In Arms Dn C3.Stn1 Target Genes C3C3.Nr5a1 Target Genes C3.Cebpe Target Genes C4.Module 272 C4.Module 368 2 C4.Module 162 C4.Module 495 C5.Gobp Isoprenoid Transport C5.Gobp Carbon Dioxide Transport 0 0 0 • | • • • | C5.Gomf Bile Acid Binding C5.Hp Cleft Ala Nasi - | - - - | -C5.Gobp Positive Regulation Of Receptor Binding C5.Gobp Protein Transport Within Lipid Bilayer C5.Hp Caudal Appendage C5.Gobp Oncogene Induced Cell Senescence C5.Hp Increased Intervertebral Space C5.Gomf Alcohol Transmembrane Transporter Activity 0 000 00000 C5.Hp Juvenile Rheumatoid Arthritis C5.Gobp Positive Regulation Of Fear Response C5.Hp Incomprehensible Speech C5.Gobp Genitalia Morphogenesis C5.Gobp L Cystine Transport C5.Gomf Ferric Iron Binding 000 0 C5.Hp Anomalous Trichromacy C5.Hp Tritanomaly C5.Hp Myoclonic Absence Seizure C5.Gobp Regulation Of Receptor Binding C5.Hp Low Self Esteem C5.Hp Reduced Blood Folate Concentration C5.Gobp Nucleoside Transport C5.Gomf Adenylate Cyclase Activity + **(000)**+ C5.Gobp Equilibrioception C5.Hp Immune Dysregulation 55 Hn Deformed Rib C: C5.Hp Sclerosis Of Skull Base 0000 C5.Gocc Hippocampal Mossy Fiber C5.Gobp Defense Response To Tumor Cell C5.Gobp Regulation Of Fear Response C5.Gomf Arginine Binding C5.Gobp Uridine Transmembrane Transport C5.Hp Metaphyseal Sclerosis C5.Gomf Inorganic Diphosphate Phosphatase Activity C5.Gobp Vagina Development C5.Gomf Chondroitin Sulfotransferase Activity C5.Gomf Acid Phosphatase Activity C5.Hp Low Alkaline Phosphatase C5.Hp Secretory Diarrhea C5.Gobp Adenosine Transport C5.Hp Narrow Pelvis Bone C5.Gobp Arginine Biosynthetic Process C5.Gobp Negative Regulation Of Cell Maturation C5.Hp Hallux Varus 0000 C5.Gobp Cyclic Nucleotide Biosynthetic Process C5.Hp Palmar Hyperlinearity -C5.Gomf Toxic Substance Binding C5.Gomf Vitamin Transmembrane Transporter Activity C5.Hp Enlargement Of The Costochondral Junction C5.Gobp Saliva Secretion C5.Hp Defective T Cell Proliferation C5.Gobp Regulation Of Mast Cell Chemotaxis C5.Gobp Primitive Erythrocyte Differentiation 0000 C5.Hp Wide Cranial Sutures ---C5.Gomf Enone Reductase Activity 0 0 000 C5.Gobp Galactose Transmembrane Transport 000 C5.Gobp Endothelial Cell Matrix Adhesion 0 000 C5.Hp Skull Asymmetry C5.Gobp Cellular Response To Cgmp C5.Gobp Response To Laminar Fluid Shear Stress 000 C5.Gobp Embryonic Skeletal Joint Development C5.Gobp Dehydroascorbic Acid Transport C5.Hp Abnormality Of Fibrinolysis C5.Hp Diffuse Palmoplantar Hyperkeratosis C5.Hp Abnormal Sperm Axoneme Morphology 0000 C5.Hp Craniofacial Dysostosis C5.Hp Flaring Of Rib Cage C5.Hp Overfolding Of The Superior Helices 0 000 $C_2$ C5.Gobp Embryonic Skeletal Joint Morphogenesis C5.Hp Deviation Of The 4th Toe 9**100 9** C5.Hp 2 4 Finger Syndactyly C5.Gobp Response To Thyroglobulin Triiodothyronine C5.Hp Common Atrium C5.Gomf Phosphatidyl Phospholipase B Activity C5.Gobp Pulmonary Artery Morphogenesis C5.Gobp Uterus Development C5.Hp Absent Foveal Reflex C5.Gobp Otolith Morphogenesis 0 000 C5.Hp Broad Metatarsal C5.Gobp Regulation Of Superoxide Anion Generation C5.Hp Choanal Stenosis 000 C5.Gomf Arylsulfatase Activity C5.Gomf Adrenergic Receptor Activity C5.Gobp Direct Ossification ••• C5.Gobp Negative Regulation Of Organ Growth C5.Hp Abnormality Of The First Metatarsal Bone **(4)** 000 C5.Gobp Prolactin Secretion C5.Gobp Regulation Of Membrane Tubulation C5.Hp Torsion Dystonia C5.Hp Myelopathy 0 C5.Hp Enchondroma C5.Gomf Protein Glutamic Acid Ligase Activity C5.Hp Barrel Shaped Chest C5.Hp Lambdoidal Craniosynostosis C5.Gobp Epinephrine Secretion 0 00 C5.Gobp Regulation Of Ribosome Biogenesis C5.Gobp Thymocyte Migration C5.Hp Refractory Anemia C5.Hp Numerous Pigmented Freckles C5.Hp Calf Muscle Pseudohypertrophy C5.Hp Parietal Cortical Atrophy C5.Hp Leukocoria C5.Hp Folliculitis C5.Hp Increased Laxity Of Ankles C5.Gocc Cell Pole 0 000 C5.Hp Vitritis C5.Hp Multiple Prenatal Fractures C5.Gomf Thyroid Hormone Binding C5.Gobp Cellular Lipid Biosynthetic Process C5.Gobp Lysine Metabolic Process C5.Gobp Ether Biosynthetic Process C5.Hp Ulnar Deviation Of Finger C5.Gobp Positive Regulation Of Feeding Behavior C5.Hp Abnormal Hemidiaphragm Morphology 0000 C5.Gobp Neural Crest Cell Fate Co C5.Hp Scarring Alopecia Of Scalp C5.Gocc Nata Complex C5.Gomf C Palmitoyltransferase Activity C5.Gobp Regulation Of Eating Behavior 0000 C5.Hp Occipital Cortical Atrophy C5.Gomf Olfactory Receptor Binding C5.Hp Edema Of The Dorsum Of Hands C5.Gobp Regulation Of Asymmetric Cell Division C5.Gobp Xenobiotic Export From Cell C5.Hp Sclerosing Cholangitis C5.Gobp Cortisol Secretion C5.Gobp Response To Interleukin 18 C5.Gobp Cellular Response To Lead Ion C5.Hp Weakness Of Long Finger Extensor Muscles C5.Gobp Formate Metabolic Process - 0 cd c C5.Gobp Regulation Of Corticotropin Secretion C5.Hp Peroneal Muscle Atrophy C5.Hp Aplasia Of The Left Hemidiaphragm C5.Gomf 11 Cis Retinal Binding C5.Hp Fragmented Epiphyses • • • C5.Gocc Gamma Delta T Cell Receptor Complex C5.Gobp Circadian Sleep Wake Cycle Non Rem Sleep 9 C6.Crx Nrl Dn.v1 Up C7. Hoek B Cell 2011 2012 Tiv Adult 3dy Dn C7 C7.Cao Blood Flumist Age 05 14yo 7dy Dn 00000 C7. Hoek Monocyte 2011 2012 Tiv Adult 1dy Up C8.Descartes Fetal Stomach Goblet Cells C8.He Lim Sun Fetal Lung C4 Th17 Cell C8. Hay Bone Marrow Pre Dendritic C8.Descartes Fetal Stomach Stromal Cells C8.Muraro Pancreas Epsilon Cell C8.Descartes Main Fetal Schwann Cells C8.Descartes Fetal Intestine Ens Glia C8. Descartes Fetal Pancreas Ens Glia -0.25 -0.500.25 0.50 0.00

z\_score

Resultant Genotype

nf1 KO; pten KO; ink KO; atrx KO

nf1 KO; pten KO; ink KO; atrx wt