4KO vs. ATRX wt tumors Pathway signature comparisons in RNAseq data MILICIC FAMILIAL ADENOMATOUS POLYPOSIS DN GOBP C X C CHEMOKINE RECEPTOR CXCR4 SIGNALING PATHWAY CHIANG LIVER CANCER SUBCLASS GOBP REGULATION OF BILE ACID INTERFERON UP BIOSYNTHETIC PROCESS GOCC IMMUNOGLOBULIN COMPLEX REACTOME PYRIMIDINE CATABOLISM CIRCULATING SCHAEFFER PROSTATE DEVELOPMENT GOBP REGULATION OF APOPTOTIC AND CANCER BOX6 DN GOBP DCMP CATABOLIC PROCESS CELL CLEARANCE REACTOME SYNTHESIS OF LIPOXINS **GOBP PYRIMIDINE** DEOXYRIBONUCLEOSIDE MONOPHOSPHATE METABOLIC **PROCESS** MATSUMIYA PBMC MODIFIED VACCINIA ANKARA VACCINE AGE 18 GOCC ALPHA BETA T CELL 55YO HIGH RESPONDERS VS LOW RECEPTOR COMPLEX RESPONDERS 0DY UP GOBP DOUBLE STRAND BREAK REPAIR VIA SYNTHESIS DEPENDENT GOBP TYPE II HYPERSENSITIVITY STRAND ANNEALING GOCC IGM IMMUNOGLOBULIN COMPLEX HP CONGENITAL ADRENAL GOBP UMP CATABOLIC PROCESS GOCC IGA IMMUNOGLOBULIN COMPLEX CIRCULATING HYPERPLASIA REACTOME ATORVASTATIN ADME BIOCARTA BLYMPHOCYTE PATHWAY GOMF IGG RECEPTOR ACTIVITY GOBP PERICENTRIC GOMF PROTEIN GLUTAMINE GAMMA HETEROCHROMATIN FORMATION GLUTAMYLTRANSFERASE ACTIVITY GOBP NEGATIVE REGULATION OF CELL CHEMOTAXIS TO FIBROBLAST **GROWTH FACTOR** GOMF SINGLE STRANDED DNA 3 5 GOMF IGG BINDING DNA EXONUCLEASE ACTIVITY GOCC IGA IMMUNOGLOBULIN HP PAROTITIS COMPLEX -0.2 0.2 0.4 -0.4**Enrichment Score Difference**