

# Significance (FDR) – autoencoder

Genes up-regulated in epithelial kidney cancer cell lines over-expressing an oncogenic form of KRAS [Gene ID=3845] gene. (KRAS.KIDNEY\_UP.V1\_UP)

Genes up-regulated in primary keratinocytes from RB1 and RBL1 [Gene ID=5925, 5934] skin specific knockout mice. (RB\_P107\_DN.V1\_UP)

Genes up-regulated in late serum response of CRL 2091 cells (foreskin fibroblasts). (CSR\_LATE\_UP.V1\_UP)

Genes up-regulated in MEF cells (embryonic fibroblasts) with knockout of SNF5 [Gene ID=6598] gene. (SNF5\_DN.V1\_UP)

Genes down-regulated in CD34+ hematopoietic progenitor cells after knockdown of RPS14 [Gene ID=6208] by RNAi. (RPS14\_DN.V1\_DN)

Genes up-regulated in four lineages of epithelial cell lines over-expressing an oncogenic form of KRAS [Gene ID=3845] gene. (KRAS.600\_UP.V1\_UP)

Genes down-regulated in TIG3 cells (fibroblasts) upon knockdown of EZH2 [Gene ID=2146] gene. (PRC2\_EZH2\_UP.V1\_DN)

Genes down-regulated in NCI-60 panel of cell lines with mutated TP53 [Gene ID=7157]. (P53\_DN.V1\_DN)

Genes up-regulated in four lineages of epithelial cell lines over-expressing an oncogenic form of KRAS [Gene ID=3845] gene. (KRAS.300\_UP.V1\_UP)

Genes up-regulated in neurons. (CAHOY\_NEURONAL)

Genes down-regulated in MOLM-14 cells (AML) with knockdown of HOXA9 [Gene ID=3205] gene by RNAi vs controls. (HOXA9\_DN.V1\_DN)

Genes up-regulated in mouse fibroblasts over-expressing E2F1 [Gene ID=1869] gene. (E2F1\_UP.V1\_UP)

Genes up-regulated in granule cell neuron precursors (GCNPs) after stimulation with Shh for 24h. (GCNP\_SHH\_UP\_LATE.V1\_UP)

Genes down-regulated in Sez-4 cells (T lymphocyte) that were first starved of IL2 [Gene ID=3558] and then stimulated with IL21 [Gene ID=59067]. (IL21\_UP.V1\_DN)

Genes down-regulated in DLD1 cells (colon carcinoma) over-expressing LEF1 [Gene ID=51176]. (LEF1\_UP.V1\_DN)

Genes up-regulated in a panel of epithelial cell lines by TGFB1 [Gene ID=7040]. (TGFB\_UP.V1\_UP)

Genes down-regulated in Sez-4 cells (T lymphocyte) that were first starved of IL2 [Gene ID=3558] and then stimulated with IL2 [Gene ID=3558]. (IL2\_UP.V1\_DN)

Genes down-regulated in MCF-7 cells (breast cancer) positive for ESR1 [Gene ID=2099] MCF-7 cells (breast cancer) stably over-expressing constitutively active RAF1 [Gene ID=5894] gene. (RAF\_UP.V1\_DN)

Genes down-regulated in HUVEC cells (endothelium) by treatment with VEGFA [Gene ID=7422]. (VEGF\_A\_UP.V1\_DN)

Genes up-regulated in MCF-7 cells (breast cancer) positive for ESR1 [Gene ID=2099] and engineered to express ligand-activatable ERBB2 [Gene ID=2064]. (ERBB2\_UP.V1\_UP)

Genes down-regulated in MEF cells (embryonic fibroblasts) with knockout of SNF5 [Gene ID=6598] gene. (SNF5\_DN.V1\_DN)

Genes down-regulated in mouse prostate by transgenic expression of human AKT1 gene [Gene ID=207] vs controls. (AKT\_UP.V1\_DN)

Genes up-regulated in primary keratinocytes from RB1 and RBL2 [Gene ID=5925, 5934] skin specific knockout mice. (RB\_P130\_DN.V1\_UP)

Genes up-regulated in MCF-7 cells (breast cancer) positive for ESR1 [Gene ID=2099] MCF-7 cells (breast cancer) and long-term adapted for estrogen-independent growth. (LTE2\_UP.V1\_UP)

Genes up-regulated in HCT116 cells (colon carcinoma) upon knockdown of PTEN [Gene ID=5728] by RNAi. (PTEN\_DN.V2\_UP)

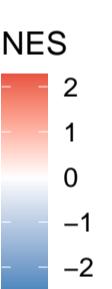
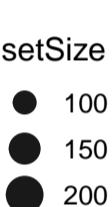
Genes up-regulated in TIG3 cells (fibroblasts) upon knockdown of EZH2 [Gene ID=2146] gene. (PRC2\_EZH2\_UP.V1\_UP)

Genes down-regulated in primary epithelial breast cancer cell culture over-expressing SRC [Gene ID=6714] gene. (SRC\_UP.V1\_DN)

Genes up-regulated in HEK293 cells (kidney fibroblasts) upon knockdown of ATM [Gene ID=472] gene by RNAi. (ATM\_DN.V1\_UP)

Genes down-regulated in A549 lung carcinoma and M059K glioblastoma cells treated with dichloroacetate [PubChem=6597]. (DCA\_UP.V1\_DN)

Genes up-regulated in primary epithelial breast cancer cell culture over-expressing E2F3 [Gene ID=1871] gene. (E2F3\_UP.V1\_UP)



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