

Table EV1: Super-enhancers nominated 205 protein-coding genes

Notes:

Interaction: genes that interact with associated SEs in both HT-55 and SNU-719 cells

Upregulation: genes that are upregulated in COREAD and STAD tumor samples compared to normal sample

Gene_name Type Interaction Upregulation

<i>ABHD2</i>	others	yes	yes
<i>ABLIM1</i>	others	yes	no
<i>ABLIM2</i>	others	yes	no
<i>ACSL5</i>	others	yes	yes
<i>ACTN1</i>	others	yes	no
<i>ACTN4</i>	oncogene	yes	no
<i>ADAP1</i>	others	yes	no
<i>AFAP1</i>	others	yes	no
<i>AHNAK</i>	others	yes	no
<i>ALDH2</i>	others	yes	no
<i>AMN1</i>	others	yes	no
<i>ANXA11</i>	others	yes	no
<i>ANXA4</i>	others	yes	yes
<i>ARHGAP26</i>	others	yes	no
<i>ARHGEF10</i>	others	yes	no
<i>ASB9P1</i>	others	no	no
<i>ATP1B1</i>	others	yes	no
<i>ATP9A</i>	others	yes	yes
<i>AZIN1</i>	others	yes	yes
<i>BCL11A</i>	oncogene	yes	no
<i>BCL2L1</i>	oncogene	yes	no
<i>BCOR</i>	others	yes	no
<i>BDH1</i>	others	yes	no
<i>BHLHE40</i>	others	yes	no
<i>BMF</i>	others	yes	no
<i>C6orf132</i>	others	yes	no
<i>C9orf50</i>	others	no	no
<i>CASZ1</i>	others	yes	no
<i>CD9</i>	others	yes	no
<i>CDH1</i>	oncogene	yes	yes
<i>CDH17</i>	oncogene	yes	yes
<i>CEBPA</i>	others	yes	no
<i>CFLAR</i>	oncogene	yes	no
<i>CGN</i>	others	no	no
<i>CHN2</i>	others	no	no
<i>CLRN3</i>	others	no	no
<i>CPEB4</i>	others	yes	no
<i>CRIP1</i>	others	no	no
<i>CSRNP1</i>	others	yes	no
<i>CTDSP2</i>	others	yes	no
<i>CTNND1</i>	others	yes	no
<i>CUEDC1</i>	others	yes	no
<i>CXXC5</i>	others	yes	yes
<i>DEGS2</i>	others	no	no
<i>DUSP6</i>	others	yes	yes

<i>ECE1</i>	others	no	no
<i>EEA1</i>	others	no	no
<i>EGLN3</i>	others	yes	no
<i>EHF</i>	others	yes	yes
<i>EIF4B</i>	others	no	no
<i>ELF3</i>	oncogene	yes	yes
<i>EMBP1</i>	others	no	no
<i>EPB41L1</i>	others	yes	no
<i>EPCAM</i>	oncogene	yes	yes
<i>EPHA2</i>	oncogene	yes	yes
<i>ETS2</i>	oncogene	yes	yes
<i>ETV4</i>	oncogene	yes	yes
<i>FLNB</i>	others	yes	no
<i>FOSL2</i>	others	yes	no
<i>FOXP4</i>	others	yes	no
<i>FZD5</i>	others	yes	no
<i>GADD45A</i>	others	yes	no
<i>GATA6</i>	oncogene	yes	no
<i>GCOM1</i>	others	yes	no
<i>GDPD5</i>	others	no	no
<i>GNE</i>	others	no	no
<i>GPRC5C</i>	others	yes	yes
<i>GSE1</i>	others	yes	no
<i>GTF3A</i>	others	yes	yes
<i>HES1</i>	others	yes	no
<i>HK2</i>	others	yes	yes
<i>HNF1B</i>	others	yes	yes
<i>HS1BP3</i>	others	no	no
<i>ID1</i>	oncogene	yes	no
<i>IER2</i>	others	yes	no
<i>IER5</i>	others	yes	no
<i>IER5L</i>	others	yes	no
<i>IFITM1</i>	others	yes	yes
<i>IFNGR2</i>	others	yes	yes
<i>INF2</i>	others	yes	no
<i>INO80D</i>	others	yes	no
<i>IRF1</i>	others	yes	no
<i>ITGA6</i>	others	yes	yes
<i>ITGB1</i>	others	yes	no
<i>ITGB6</i>	others	yes	yes
<i>JAG1</i>	others	yes	no
<i>JUNB</i>	oncogene	yes	no
<i>JUP</i>	oncogene	yes	yes
<i>KALRN</i>	others	yes	no
<i>KCNK5</i>	others	yes	no
<i>KLF13</i>	others	yes	no
<i>KLF5</i>	oncogene	yes	yes
<i>KLF6</i>	others	yes	no
<i>KRT42P</i>	others	no	no
<i>KSR1</i>	others	yes	no

<i>LBR</i>	others	yes	no
<i>LFNG</i>	others	yes	yes
<i>LGALS3</i>	others	yes	yes
<i>LIPH</i>	others	yes	no
<i>LITAF</i>	others	yes	no
<i>LLGL2</i>	others	yes	no
<i>LMNA</i>	others	yes	no
<i>LRP5</i>	oncogene	yes	no
<i>MALAT1</i>	oncogene	yes	no
<i>MBNL2</i>	others	yes	no
<i>MCF2L</i>	oncogene	yes	no
<i>MEF2D</i>	oncogene	yes	no
<i>MIDEAS</i>	others	yes	no
<i>MPRIIP</i>	others	yes	no
<i>MUC13</i>	others	yes	yes
<i>MYB</i>	oncogene	yes	yes
<i>MYEOV</i>	others	yes	yes
<i>MYH9</i>	others	yes	no
<i>MYOF</i>	others	yes	no
<i>NCOR2</i>	others	yes	no
<i>NEAT1</i>	oncogene	yes	no
<i>NFKBIA</i>	others	yes	no
<i>NHSL3</i>	others	yes	no
<i>NIBAN2</i>	others	yes	no
<i>NOTCH1</i>	oncogene	yes	no
<i>OGDH</i>	others	yes	no
<i>PARD6B</i>	others	yes	yes
<i>PBX1</i>	oncogene	no	no
<i>PCDH1</i>	others	yes	yes
<i>PIK3C2B</i>	others	yes	no
<i>PKDCC</i>	others	yes	no
<i>PLEC</i>	others	yes	no
<i>PLEKHA2</i>	others	no	no
<i>PLEKHG3</i>	others	yes	no
<i>PLS3</i>	others	no	no
<i>PMEPA1</i>	others	yes	yes
<i>POLD4</i>	others	yes	no
<i>POU5F1B</i>	others	no	no
<i>PRKCD</i>	others	yes	no
<i>PROC</i>	others	yes	no
<i>PRR15L</i>	others	yes	no
<i>PSMG1</i>	others	no	no
<i>PTP4A2</i>	oncogene	yes	no
<i>PTPRF</i>	others	yes	no
<i>PTPRJ</i>	others	yes	no
<i>PTTG2</i>	oncogene	no	no
<i>RGS3</i>	others	yes	no
<i>RHPN2</i>	others	yes	yes
<i>RIN2</i>	others	yes	no
<i>ROCK2</i>	others	yes	no

<i>RUNX1</i>	oncogene	yes	yes
<i>S100A11</i>	others	yes	yes
<i>SCARB1</i>	others	yes	yes
<i>SDC1</i>	others	yes	yes
<i>SDC4</i>	others	yes	no
<i>SEMA4B</i>	others	yes	no
<i>SERINC5</i>	others	no	no
<i>SH2D6</i>	others	yes	no
<i>SH3BP4</i>	others	yes	yes
<i>SH3PXD2A</i>	others	yes	no
<i>SHB</i>	others	yes	no
<i>SLC16A13</i>	others	no	no
<i>SLC6A6</i>	others	yes	yes
<i>SLC9A8</i>	others	yes	no
<i>SLCO2B1</i>	others	yes	no
<i>SMAD3</i>	others	yes	no
<i>SMAD7</i>	others	yes	no
<i>SNORA14E</i>	others	yes	no
<i>SNORD17</i>	others	no	no
<i>SNX29P2</i>	others	no	no
<i>SOWAHC</i>	others	yes	no
<i>SP1</i>	others	no	no
<i>SPSB1</i>	others	yes	no
<i>SREBF1</i>	oncogene	yes	no
<i>ST3GAL2</i>	others	yes	no
<i>STAMBPL1</i>	others	yes	no
<i>STARD10</i>	others	yes	no
<i>SUMO1P1</i>	others	no	no
<i>SYNJ2</i>	others	yes	no
<i>SYTL2</i>	others	yes	no
<i>TBC1D14</i>	others	yes	no
<i>TBL1XR1</i>	oncogene	no	no
<i>TGIF1</i>	others	no	no
<i>TGM2</i>	others	no	no
<i>TM4SF1</i>	others	yes	yes
<i>TMC5</i>	others	yes	yes
<i>TMED10</i>	others	no	no
<i>TMEM105</i>	others	no	no
<i>TMPRSS2</i>	oncogene	yes	no
<i>TMSB4X</i>	oncogene	yes	no
<i>TNRC18</i>	others	yes	no
<i>TNS3</i>	others	yes	no
<i>TOB1</i>	others	yes	no
<i>TRIB1</i>	oncogene	yes	no
<i>TRIM2</i>	others	yes	no
<i>TSEN2</i>	others	yes	no
<i>TSPAN8</i>	others	yes	yes
<i>UBC</i>	others	yes	no
<i>VDAC1</i>	others	yes	yes
<i>XBP1</i>	oncogene	yes	no

<i>ZBTB38</i>	others	yes	no
<i>ZBTB7B</i>	others	no	no
<i>ZC3H4</i>	others	yes	no
<i>ZFP36</i>	others	yes	no
<i>ZFP36L2</i>	others	yes	no
<i>ZMYND8</i>	others	yes	no
<i>ZNF703</i>	oncogene	no	no
<i>ZNF706</i>	others	yes	no
<i>ZNF750</i>	others	no	no
<i>ZNRF3</i>	others	yes	no

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