

Supplementary Materials: NR2F1 Regulates TGF- β 1-Mediated Epithelial-Mesenchymal Transition Affecting Platinum Sensitivity and Immune Response in Ovarian Cancer

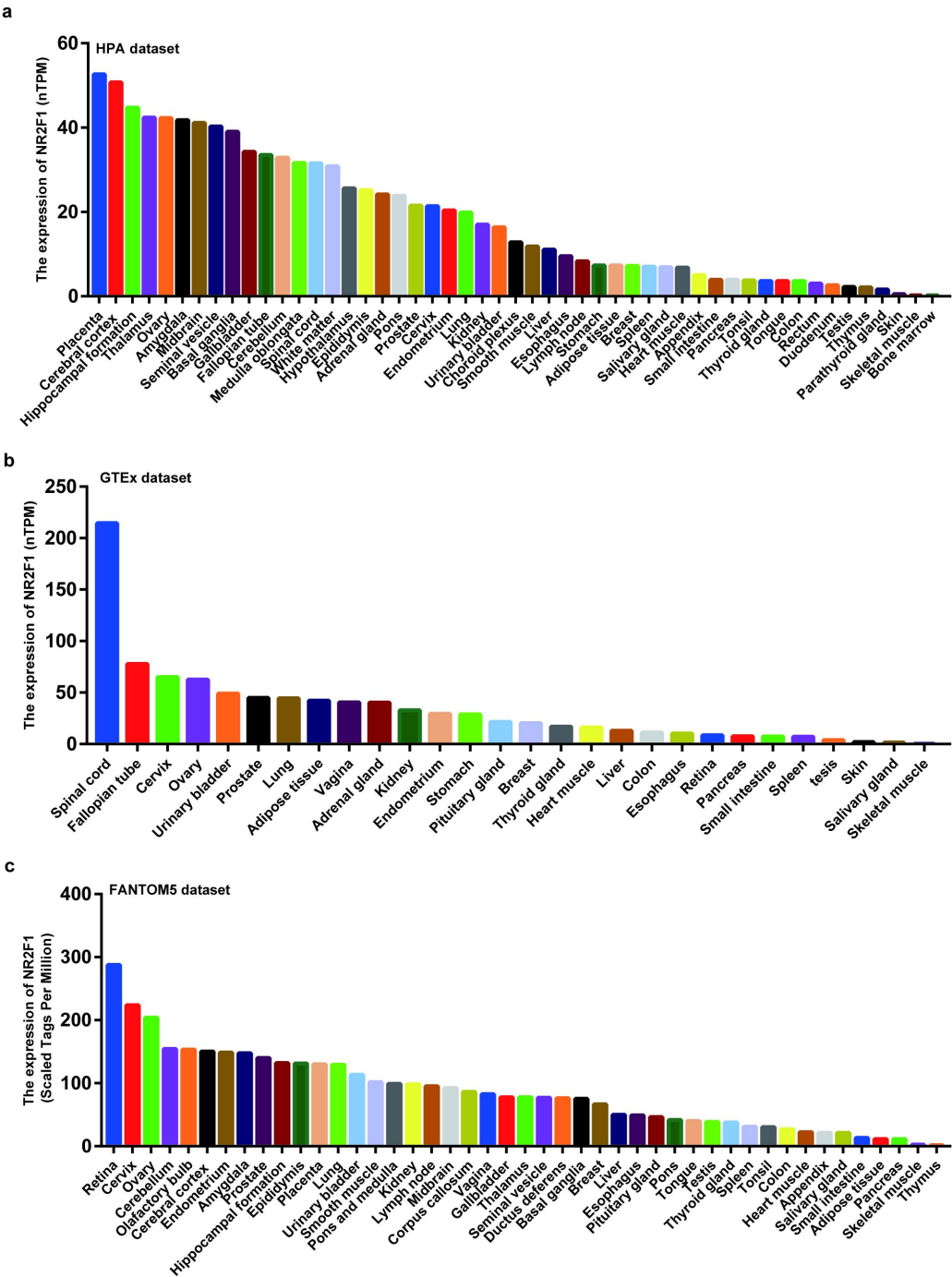


Figure S1. Expression of NR2F1 in different normal tissues including ovary tissues using (a) HPA, (b) GTEx, and (c) FANTOM5 datasets.

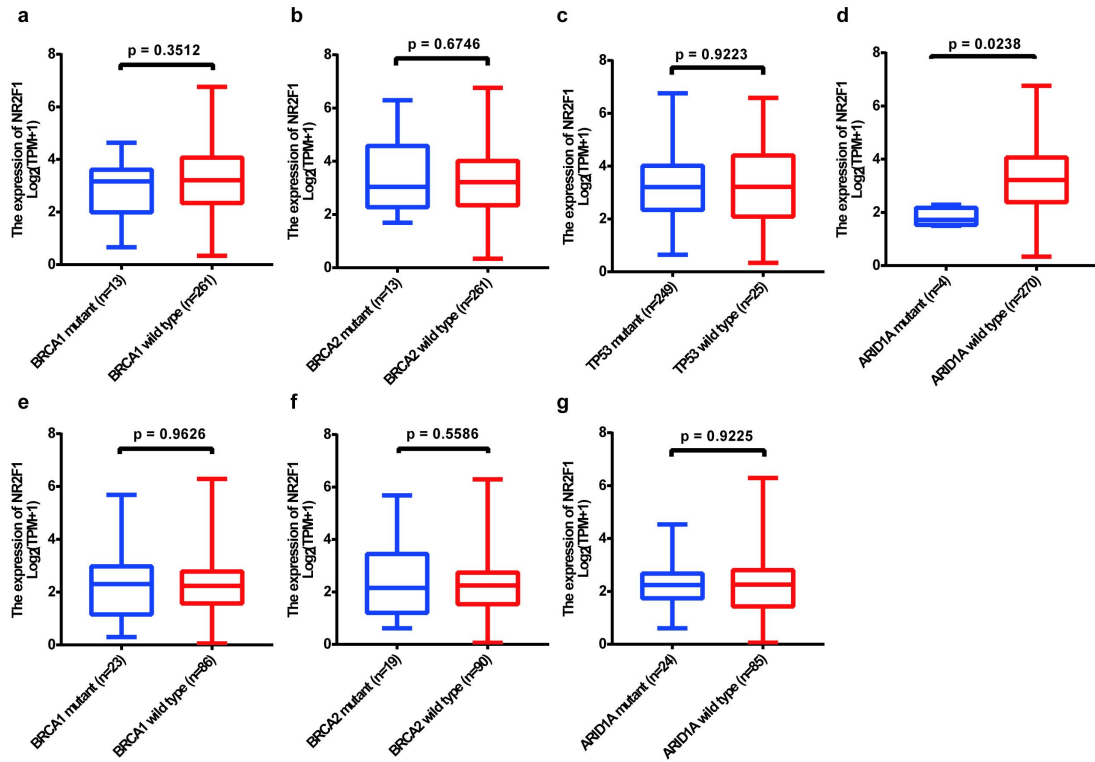


Figure S2. The correlation of NR2F1 expression level with specific mutations in OC patients. The correlation between NR2F1 expression and BRCA1 mutation (a), BRCA2 mutation (b), TP53 mutation (c), and ARID1A mutation (d) based on TCGA OC dataset. The correlation between NR2F1 expression and BRCA1 mutation (e), BRCA2 mutation (f), and ARID1A mutation (g) based on ICGC OC dataset.

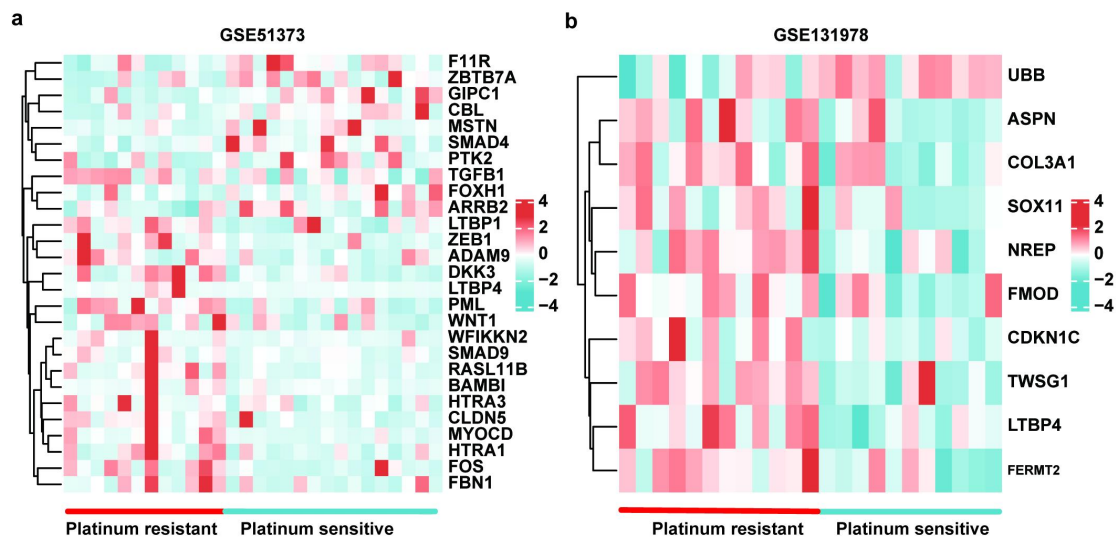


Figure S3. Heatmap of the co-DEGs enriched in transforming growth factor-beta receptor signaling pathway in GSE51373 (a) and GSE131978 (b).

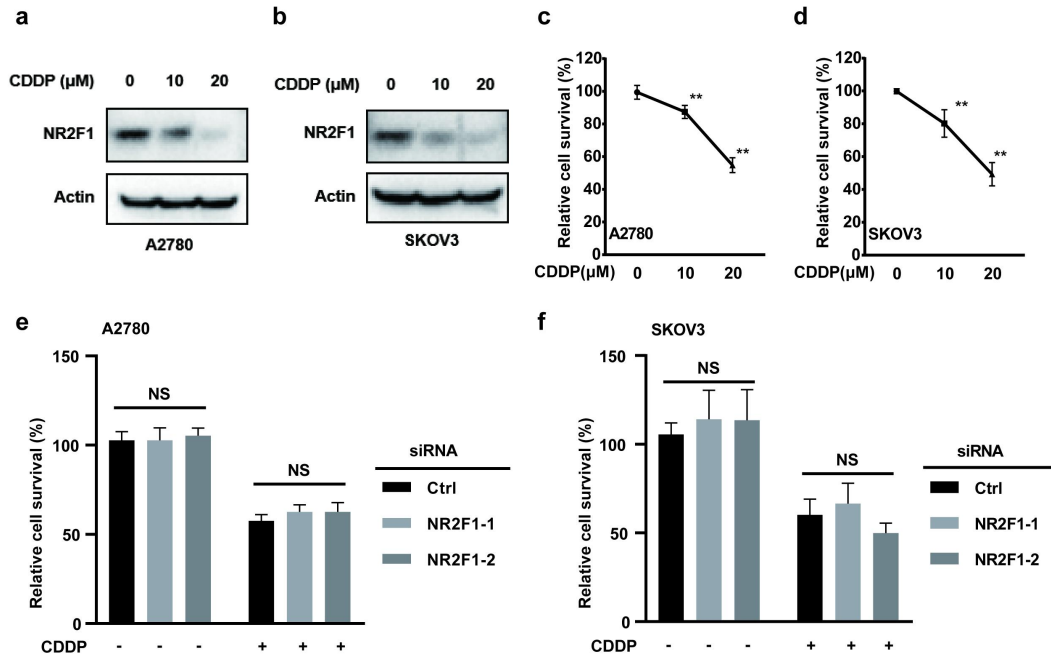


Figure S4. Silencing NR2F1 does not affect cell proliferation. A2780 and SKOV3 cells were treated with 0–20 μM cisplatin for 24 h. The protein level of NR2F1 in A2780 cells (a) and SKOV3 cells (b) was examined by western blot. The uncropped blots are shown in File S1. Cell survival of A2780 cells (c) and SKOV3 cells (d) was detected using CCK-8 assay. (e,f) Examination of the viability of siNR2F1-transfected A2780 and SKOV3 cells without or with cisplatin treatment (20 μM) using CCK-8 assay. ** $p < 0.01$. NS: not significant.

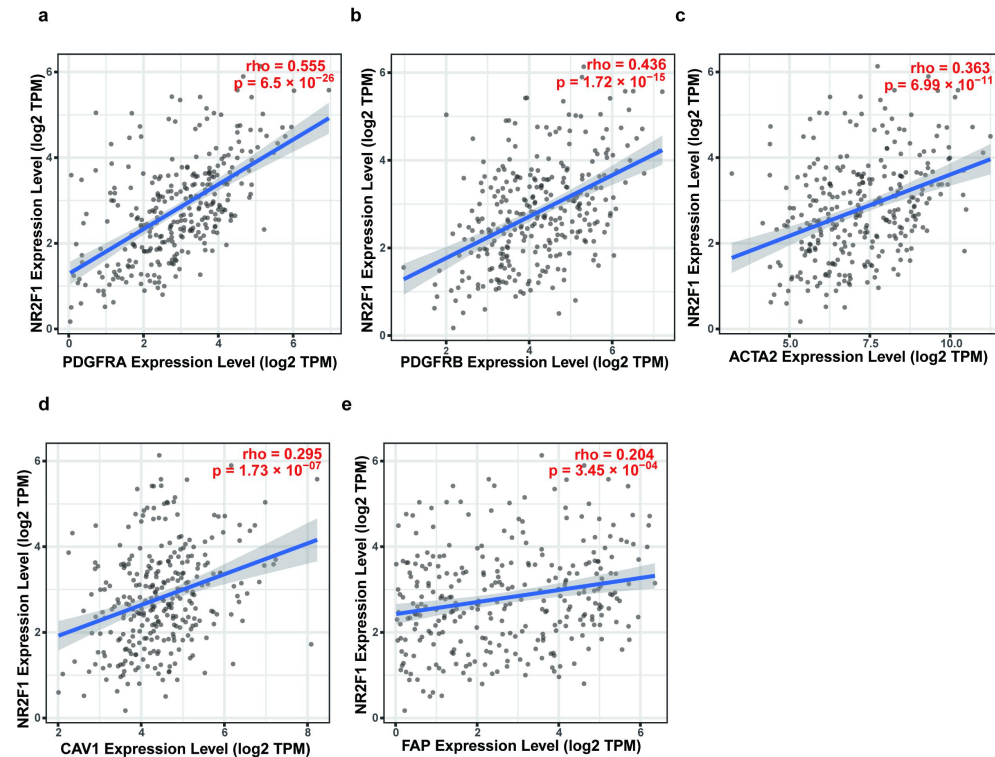
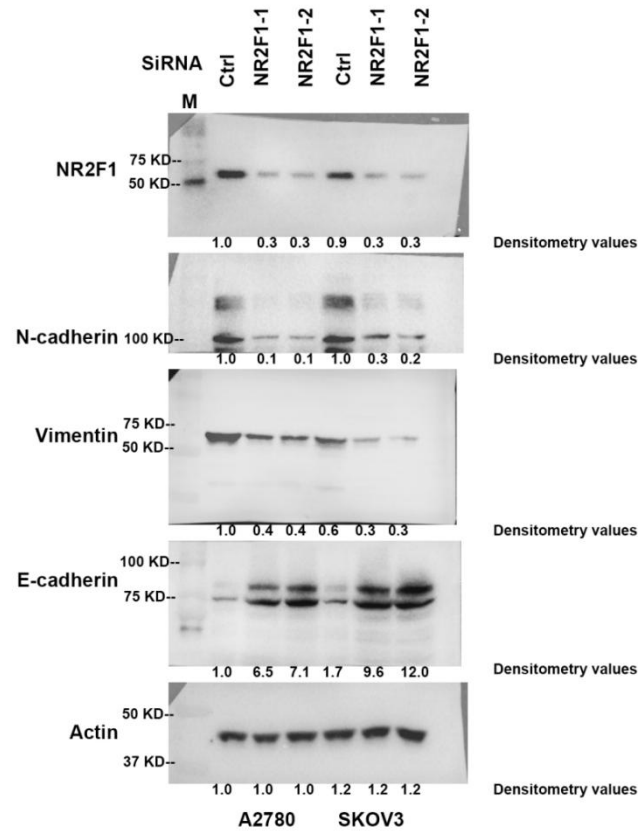


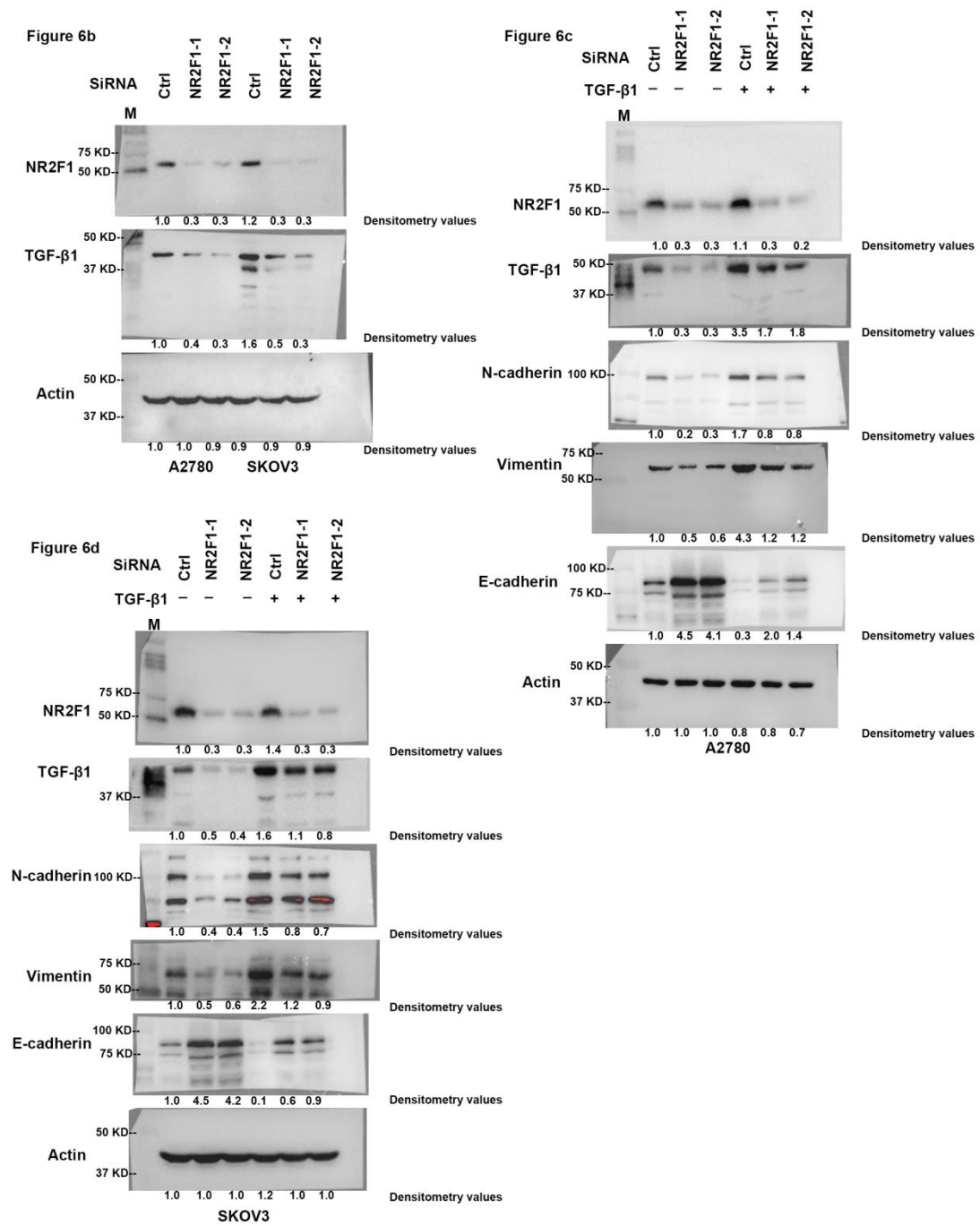
Figure S5. The relationship between NR2F1 and CAF markers including PDGFRA (a), PDGFRB (b), ACTA2 (c), CAV1 (d), and FAP (e) according to TIMER2.

File S1: uncropped WB images

The uncropped blots of Figure 5a. (M = Protein standard marker).



The uncropped blots of Figure 6b-d. (M = Protein standard marker).



The uncropped blots of Figure 4Sa and 4b. (M = Protein standard marker).

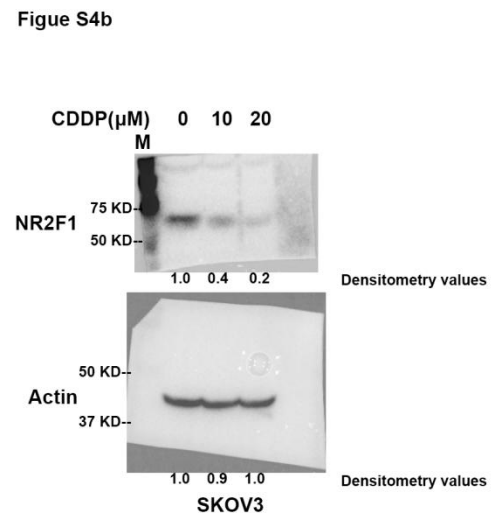
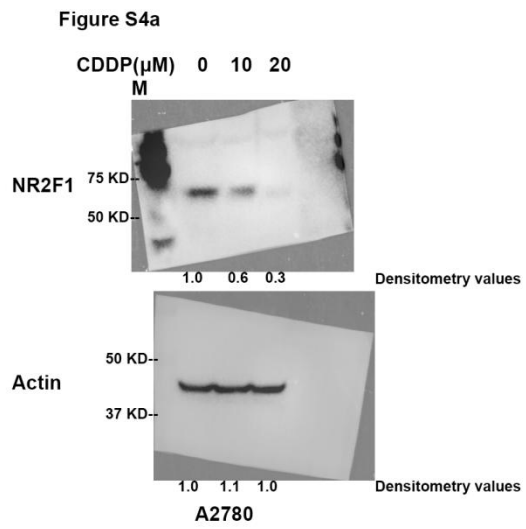


Table S1: up-regulated and down-regulated DEGs among GSE51373 and GSE131978

Datasets	Up-regulated DEGs	Down-regulated DEGs
GSE51373	<p>HAND2-AS1 SCARA5 ATRNL1 UBE3A LOC100131655 LRRC75B ADAM22 AKT3 P2RX3 SYNPO2 LINC00908 DENND2A FABP4 GPR156 MAPK10 C11orf96 MGP PDK4 LOC100130872///SPON2 RHOBTB3 CORO2B SCN7A DLG2 RNF213 GNAL OPN4 GH1///CSHL1///CSH2///CSH1 CYP2A6 SDC2 RHOB LOC101928818///PWRN1 EPHA5 C3orf70 ABCB5 GTF2H2B///GTF2H2 VN1R5 P3H2 GEM TMEM204 LINC00673 LINC00161 CPQSNX3 SDHAP3///RGS8 MYT1L FEZ1 DDR2 PDZRN3-AS1YPEL4 RHOJ BCL2 ARHGAP6 SNAP91 DCHS1 FAM99B SUMF2 PCDH18 LINC01616 MAOB CHGB TNXB TMEM165 IRGQ IGFBP7 ZFPM2 KCNJ8 NBEA ITPR1 PPFIA2 MUM1L1 MRO PML NDNF ZFP36 IGIP GRK5 LOC101805491///TMEM247 ARMCX4 LOC101929174 TEX28 GPC4 ECEL1 CTXN2///SLC24A5 DKKL1 ABCA8 NUDT11 NR2F1-AS1 COL14A1 CCDC83 SMTN MOSPD1OPN1SW FGF2 CLDN5 SCN4B RYR3 MYH11 DKK3 CATGATM FKBP7 FGF7 C11orf58 GLT8D2 ZEB1 RASL11B LDB2 GRK4 IL6ST</p>	<p>HIST1H3G TIAM1 PRO1596 C8B PCDH7 PARD6G-AS1 TRIM62 KIF24 MCM8 CTLA4 ITSN1 C1orf74 ZNF417 RIF1 MIR924HG RTKN2 SNX5 GAGE12D///GAGE8///GAGE12F/// GAGE2A///GAGE12H///GAGE12E///GA GE12B///GAGE12C///GAGE2D///GAGE 12J///GAGE12G///GAGE13///GAGE2B/// GAGE2E///GAGE12I///GAGE7///GAGE6 ///GAGE5///GAGE4///GAGE3///GAGE2 C///GAGE1 TEX29 MAVS MYO9B SSX2B///SSX2 SLFN13 GAGE3 H2AFY SLFNL1 ANKRD30BP3 DSC2 OAF THAP2 CCNF SREBF1 SLC22A1AP1S3 ZXDC MRPL20 HECTD1 CSTL1 HIST1H3F///HIST1H3B///HIST1H3 H///HIST1H3J///HIST1H3G///HIST1H3I/ //HIST1H3E///HIST1H3C///HIST1H3D/// HIST1H3A///HIST1H2AD IZUMO2 CNGB1 RBCK1 ARHGEF7 SEMA3F RABEPK PPP1R3E RAD54L CDCA2 NRSN2-AS1 USP2 NDST4 RNF165 SNORD104///SNORA50C ANKS6 ZNF83 EFCAB14 TTF2 PPARGC1B PSMF1 FOXM1 RAB43 HJURP RAB3IP KIF14 SSH2 AFG3L2 UNC45B GTF3C3 PPP4R3B TNRC6C ARHGAP27 LOC339874 SOX12 HIST1H2APS5 IRF4KRAS NCAPH SP100 MIR15A///DLEU2L///DLEU2 LINC00837 LOC100130502 IL2RA AIF1 DIS3L2 C18orf25 ZGRF1 DLEU2 ZNF655 LINC01222 TANK CHST3 TMEM19GIPC1 DDX11 LINC00667 PRPF38B SMDT1</p>

<p> ZNF518BGRIN1 ABI3BP ECM2 ANKRD29 WRB FOXP1 WDR72 MEG3 BICC1 JAM3 NSA2 ZNF717 C1orf21 MYOCD DUSP1 EPS8 FLJ41170 MAGEL2 INSR TIMP3 NR1H4 EGR4 CA4SPHKAP LOC100505711 CHML LINC01281 CASC15 CCDC181 ANXA6 AKAP12 PES1 RBM20 WDFY3-AS2 LOC100507616///CLLU1 SPATA22SLC1A6 LOC339166///WSCD1 SLC18A2 KIAA0825 STX2 NAALAD2 LAMP2 CYP2B7P///CYP2B6 CD59 CHID1 GPRASP1 PEG3-AS1 NR3C2 ZRANB2-AS1SCN3A NR4A1 LOC100287413///GLYATL1 COMP PAX7 NAP1L3 LYPLAL1 LOC285692 FAM230B PAMR1 RNF133 FHL2 PIWIL2 PDE1C CSNK1G1 NUP214 ARMCX5-GPRASP2///GPRASP2 DACT1 IPO11-LRRC70///IPO11 VKORC1MFAP4 LOC100133089 SERPINB3 TARP TAS2R9 CXCL14 ZDBF2 SRRM4 NEUROD4 ACTG2 PRTG MAP2K5 PRKAR1B LRRN4CL IGF1 HORMAD2 SHANK2-AS2 PAPP SLC1A2 OFCC1 DSTN PHYHIP MS4A2 NTRK2 ANKRD19P FBXO28 GHR SFRP1 ADAMTS9-AS2 ZMAT1 PLA2G2A EPB41L1 ELAVL4 PGRHTR6 FOXP2 EFEMP1 SCN2B </p>	<p> LOC100506124///TTC21B POLE CDK13 USP28 FAM71F1 USP37 LINC01123///LINC01106 LANCL1PRDM14 NUF2 CYP27B1SLC20A1LMO1 KIAA1524 DCAF7 ESR1 TCF4-AS1 RSF1 AP1G2 ZCCHC3ZNF417///ZNF587 NR2C2 HIST1H4A GK5MTF2 LOC105379143 THRB FANCB STK35 REL LOC284080 REXO2 CBX5 SDCBP2-AS1 SGO2 PIP5KL1 KPNA1 FOXN4 APTX SLC26A7LOC101927204 RAD51AP1 STAT1 LYPD6 AFF3 RALBP1 LOC283075 FASTKD1 ZBTB40 BROX UBE2O KRTAP7-1 FAM72A///FAM72D///FAM72B///FA M72C ZBP1 LRRC41 SH3PXD2A-AS1 NAA15 THADA LOC101928123 CCDC88B PATJ UBALD2 SIGLEC15 IGLL1 PLPPR5 SCRN2 7-Mar PRICKLE2-AS3 LOC643085 EPG5 OAS3 SLC25A16 PARP9 RIOK3 ASPM MIR3916 IL20RB BRIP1 ALS2 HSD17B3 SLC30A1 PCMTD1RNF144A-AS1 KIAA2026 CDC7 ARHGAP39 MAGEA8 BARD1 DTX3L PLSCR1 ARHGEF39 RBMXL1 NFYC DUXAP10 AVIL BCL10 PCGF5 AIFM2 TRMT6 ARHGEF12 ANKRD23///ANKRD39 DERL1 AFF4 SOX6 EIF2AK2 ZNF606 EPT1 JMJD1C HIST1H2BJ///HIST1H2BG DDX39A FLJ32742///DCAF8L2 POLQ SSX2IP SFN KIR3DL2///KIR3DL1 SMYD2 KLHDC7B ACKR4 BTBD9 </p>
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<p>GH1///CSHL1///CSH1 C7orf50 PLCL1 LOC101928747///RBMX///SNOR D61 TEX22 FAM162B PCNX1 ANGPTL1 ARHGAP44 LINC01016 VIMMRGPRF PRDM6 ANTXR2RBAKDN EGR2 CYBRD1 PTCH2 TEK CARMN///MIR145ACO1 LHFP MYLK LINC01020 CNRIP1 LOC285097 TRDMT1 HLFCACNB2C4orf46///TOMM7 CACNG2 KIT EEF1A1 FOX E1 CLN8 GAB1 LOC101929713 FAM126A MAN1C1 SLC22A7C8orf49 MMGT1 PDE7B VIPR2 CTD-3080P12.3 ZCCHC12 TMEM106B RPS4Y1 C4orf3 COL4A6 HAS3 MSRB3 LAMA2 HEXB HHLA2 FOS FOXL2 TFPI RNH1 SPTBN4 TRPM3 NXPH3 PDE2A STARD13 GNG11 AGFG2 DN M3OS EXTL1 CLMP AOX1 RNF144A HMGCLL1 PLS3 STAT5B SMIM20 MAOA PQLC3 LMOD1 THSD7A VWF RGS5 PDGFD PDE5A C5AR2 CCDC127 NT5DC4 PTGER3 GABRB2 PRPF4B FBXO32 ZNF582-AS1 ADH1B IGFBP6 PDLIM3 LINC01583 CD79B ZDHHC4 CLSTN2 MBNL2 NR2F1 OR7C2 MTTP PLNTIAL1 PLPP1 FAS CYP2B7PLOC102546299 LOC101928307 DKFZP434L187 PROX1 FAM46D EIF1SLC35B4 NID1 USP46 PTHLH ACADL PRKD1 CTGF TLX3 WISP2 UBE2W PSORS1C3</p>	<p>CD2AP UBA6 PRKD3 MAGEA4 LINC00305 SHISA8 FANCI DDX51 ZNF484 HSH2D KRT81 ERICH4 MIR6125///USP15 GAGE12D///GAGE8///GAGE12F/// GAGE2A///GAGE12H///GAGE12E///GA GE12B///GAGE12C///GAGE2D///GAGE 12J///GAGE12G///GAGE13///GAGE2E/// GAGE12I///GAGE7///GAGE6///GAGE5// /GAGE4///GAGE2C///GAGE1 DNA2 ZNF460 QTRT2 FNDC3A MIR6758///MARS DYNLL2 NEK2 IGK///IGKC OSBPL3 H1F0 MIER2 MYL12A XRN1 TP63 NAPG LRRC37A5P ZNF587 QSOX2 LINC00459 SNAPC3 ESPL1 CES3 ISY1-RAB43///RAB43 IDH3B LOC101929517 LOC100420758 ATP2B4 SMR3A///SMR3B PER3 DCBLD2 KCNB1 RS1 SAMSN1 CDC20B IFI44 PSRC1 CD84 TBX3 FAM111A C3orf52 ESP NP///ESPN ZNF367 CSRNP3 SLC30A6F11R TAF5 PKN1 LSM14B MIS18BP1 PLCH1-AS1 ZNF551 IQGAP3 LOC101928551 LHX4-AS1 PHF19 NDC80 CCDC150 FANCD2LOC105376166 LOC285500 LOC100507377 GPSM2 GGT6 LINC00470 SYNJ1 AFF2 CYP19A1 DCAF8 RNF217-AS1 LMNB1 EWSR1 POLL CCDC18 LPIN1 BEST3 CDC42BPG CCDC30///PPCS GPR157 SEMA6ALOC146795 INTS6 LMF1 DENND2C PEX26 CBLCKAP2 NDUFS1 RGS14 BCL2L11MRPS12 OVOL2 MAP4K2ODF2L HAU S8 BCL11A CLIP1-AS1 HINT1</p>
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<p> FLJ22763 TGFB1 HNRNPDL RNF180 ATE1 LOC100506286 GABARAPL3///GABARAPL1 RFX4 RUNDC3B NBPF20 FBXW12 KLHDC8A SLMAP CAPNS2 GART LINC00608 CADPS2 CD36 UNC80 CD300LG SGIP1 FAM114A1 GGTL2 OGN PTPRB JAM2 KIAA1210 WWC2 SLC6A1 SLC43A1 TMCC1 RORC TAF4 IL13RA2 EML5 SHE ARG1 FAM43B C7orf77 FOXO1 CEP128 TXNL1 TRPC5 OR7A17 FLJ30901///SCUBE1 MRVI1 ADAM9 GLUD2 MPL PRELP RNASE4 ANOS1 PLCXD3 MALSU1 RECK TAGLN RAP1GDS1 ERVH-6 RPS23 SIM1 MATK XRCC4 TSPY1 C14orf105 LCMT1-AS2 VSTM2A-OT1///VSTM2A LOC100294145 PRSS53 SIK1FILIP1L SMAD9 HMMR-AS1 PRMT1 POLK LRAT ADCY8 FNDC4 NAV2-AS4 CLVS2 ENPP3 SGPP1 ANTXR1B3GALT6 COL2A1 ARHGAP31 CSF2RA CSGALNACT1 LHFPL3-AS1 ACTA2 PCP4 ARHGAP24 SLC16A7ABCA13 BRSK2 CLEC2L TMED4 LOC101927331 ENTHD1 DPYSL2 WNT1 ZNF396 DLGAP1-AS3PPP5D1 TMEM200A TEX13B SCN1A SETD7 CASKIN1 VNN3 SPIDR ATP1A1 SCG5 CCL15-CCL14///CCL14HPCA LOC100505978 MBNL1-AS1 </p>	<p> LOC101926942 SFT2D3 STX19 SLC45A2MLPH TACC3 LOC101927690 RASA3 LOC286359 PGAP1 PPARD SIN3B GPR158 DCAF15 ANKRD44 LRRC37A3 TMPO-AS1 PCDHB1DOCK4 MYT1 GNB1L ARHGAP35 PLGLB1///PLGLB2ZKSCAN7 ASB16 COL8A1 STAG1 LINC00491 LCA5L NUP93 IFIT1 APOF PIF1SAMD9 BAZ1A ANKRD65 FAM64A DNAJC9 COL9A1 LMOD3 EPRS CADM3///ACKR1 GAS2L3 TMEM161B CEP152 TPM4 C21orf58 GINS1 CARD18 PIK3R3 SOS1 LOC729224 ZNF221 STK4-AS1 CITED4 SSU72 WDR76 ZNF519 GEMIN7 ARTN CLIP4 HMGA1 SH3TC2 ERV3-1 NLGN4Y MSTN NECTIN4 NNT KIF23 DGCR7 IFNL1 NAA40 ACKR2 TMEM110-MUSTN1///TMEM110 ZNF107 DIAPH3 ALG10 RBM15 CSH1 SERP2 FCRL5 HOXD13FAM133DP///FAM133B CERS5 ATL2 FAM65A TSNARE1 MAGEA1 CD28 SCIMP ZNF326 LTK NFIB DR1 ARPIN ARRB2 LITAF SERPINB5 LOC101930531///LOC101930288 SRSF11 SPTAN1 LOC100996906///CDRT1///FBXW10 MIR4290HG FOXJ1 ISG15 MASTL PLAC8L1 CEP55 DCP2 LOC389641 PPIL2 RAD52 BTBD11 RTP3 LRRC37A4P ARPP21 ADGRF3 SP140 TYMS LOC101930112///SPG7 TMTC2 GTF2A1 LOC101927348 </p>
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	<p> RALGAPA1///RALGAPA1P1 PYGO1 SORCS1 IGFBP4 PPID BAG2 PDGFRA LRFN3 INMT TMEM47 GBP6 PAQR9 TACC1 OLFML2A GZMM MMP20 MIR6883///PER1 NEFM RBP7 TTC28-AS1 LINC00967 SMOC2 MRAP GABRA6IFNA1 LOC100506563 KCND2 MAGEB3 SLIT3 PTPN5 NKAPL LMO3 CCDC42 LY75-CD302///CD302///LY75 CHST7 PRRT2 C4BPA PLEKHG2 GLI3 HSD17B2 LIMS1 IL33 MDM2 GFPT2 REPIN1 TXNIP DPY19L2TTC22 LOC101928909 ZNF207 KCNK1 KBTBD11 CEBPD BMP6 ZCCHC14 KCNC1 TRIM24 PLPP7 KCTD17 PMS2P4 SELM ARSD LINC01140 LOC105376944 RAPGEF1 FBXL13 MOGAT1 KL LRFN5 GOLM1 TLL1 PIK3IP1 MMP8 ANKRD34A FBXO17 PRKG1 KIDINS220 DFNA5 TIMP2 SLC2A13ANGPTL7 LOC105370580 ST3GAL4-AS1 FAM189A2 LOC105377924 WAS ADGRA2 TCEAL3 GBA3 PCSK9 C1QTNF4 C2orf80 FGF22 ERC1 TMEM178B ACACB DNAJB8-AS1 ISL2 PSMB8-AS1 TMEM74 ADAM3B NFASC LINC01187 KCTD16 LOC102725315///LOC727983///P OM121L10P///POM121L4P///POM121 L8P///POM121L9P///POM121L1P </p>	<p> MYO1H PTPN14 WDHD1 ELF3 PLCXD1 ZNF334 TXNL4A BRMS1L CARF LARP6 FBLN1 CMTM7 KIAA1804 MAP2K7 PAPPA2 PLPP2 LRMP ATAD2 </p>
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	PCSK1N TRPM6 HILS1 PSAP PRB4 EDNRA FRG1CP///LOC283788 PIGZ MMP24 TBX3 LOC100507311 FMO5 MYL4 TDH PDGFRB PCDH15 NMUR2 SLC30A4 KLHL13 NPY2R NUDT10 COPG2 KLF6 NCR2 OR9A1P SMIM4 DDIT4L BCL2L15 ZNF44 GABARAPL1 PLXNB3 TMEM185A TMEM187 GPIHBP1 DRD3 CD99 GALNT8///KCNA6 DCN TMEM207 LSAMP ABHD1 PRPF18 CTSF CNTNAP3B///CNTNAP3P2///C NTNAP3TTTY5 EGFR IGFBP1 HAND2 TSPY26P NAP1L1 SEMA5APROK1 OPN3 CA11 PTRF ERIH1 CARD8 MCF2 CLDN11 DET1 CADM3 NAPA-AS1 PTOV1-AS1 COL4A4 GJD3 MEX3B LINC01115 ZFYVE28 UMAD1 LINC01089 CPE GNG7 LDLRAD4-AS1 SNCA CEP57L1 TFRC ATP6V1C1 MAP1B	
GSE13197 8	ESF1LOC101928830///LTA4H ARL4C NAP1L1 SMARCA1 SOCS5 TCF4 PSMF1 EMX2 LTBP4 OSBPL8 CNOT2 RNFT2 C12orf29 ACAA2 HDAC4 ACKR3 ZMYND8 CBX1 NREP IL11RA CSNK2A1 NELL2 MIR1292///SNORD110///SNORD 86///SNORD57///NOP56 DTYMK DESI2 NR2F1 HJURP MYH10 DIP2C URI1	HIST1H2BD GSDMD CLDN10 GBP2 GPAA1 TAPBP HIST1H2BE GRINA HIST1H2BC///HIST1H2BI///HIST1 H2BE///HIST1H2BF///HIST1H2BG PYCRL OR7E14P MIR6834///PFDN6 BTN3A3 ASRGL1 HLA-E SLC52A2 PRUNE2 SNX19 HOXB6 TAP1 HLA-G SPCS2 TSTA3 GBP1 PRSS16 GSN HIST1H2BH YIF1A FAT2 HSDL2 UBB

	<p> SUGCT MIR15A///DLEU2L///DLEU2 DYRK2 PLEKHF1 EIF4E2 LSM8 MEST EFN2 AGAP1 TM7SF3 VCAN FERMT2 TUBB6 FXD5 MFAP2 TROTNS CENPF TPPP3 SLC16A1LSM14A PCOLCE UQCRFS1 CCNE1 IGFBP6 NUA1 PALD PPP1R12A ZIC1 ROBO1 NUP107 GPM6B HMGB2 ZNF292 FKBP1B TWSG1 IGFBP3 ATP1B1 EFN3 CDKN1C PON3 MIR4738///H3F3B///H3F3A CPVL FMOD TIMP3 ASPN TPGS2 PLCB1 MXRA5 POP4 SNCA PEPD F2RL1 PRSS2 ISLR RGS4 DIEXF IGF1 LOXL1 NDUFA4L2 COL3A1 SPRED2 PTH2R CDH18 SH3BP4 SLC38A1 EMP1 MYO1B TMEM45A BGN CDH11 TUBA1A RHOBTB3 SMC3 SOX11 COL11A1 ACTA2 SSPN COPS8 SPARC UBA2 SRPX PXDN COL5A2 TNFAIP6 IQCJ-SCHIP1///SCHIP1ZNF124 FABP4 HSPA2 PLOD2 MSANTD3-TMEFF1///TMEFF1 HOXC6 ALDH1A3 TTK </p>	<p> VPS13C DGAT1 IDH2 UBBP1 LY6E HLA-C TRIM27 H2BFS DEPTORLAMP2 ENDOD1 CFB TAP2 HIST1H2AC KRT23 TTC9 PSMB8 EXOSC4 FBXO9 FZD4 MPZL2 YME1L1 LACTB2 LOC101060835///HLA-DQB1 HIST1H4H RIDA HIST1H1C PSMB9 FNBP1 APOL1 FZD6 CXCL11 ANO1 HLA-DPA1 ST6GAL1 PPP2R1BHLA-F C8orf33 CYC1 PLEC CXCL10 HLA-B CYP11A1 SERPINB1 SH3GLB2 CRISP3 IDO1 HIST1H2BK DNPH1 SORL1 TFAP2C HLA-DQB1 ACSM3 MIR7112///BOP1 ACTG1P4///AMY2B///AMY2A///A MY1C///AMY1B///AMY1A TPK1 RARRES3 SH3GL3 LIFR HIST2H2AA4///HIST2H2AA3 WARS HOMER2 VGLL1 MIR452///MIR224///GABRE CD74 CYP3A5 RBPMS HIST1H2AE AQP5 VAV3 OPLAH CXCL9 SLC7A11PALMD CA2HLA-DMA LOC100509457///HLA-DQA2///HL A-DQA1 MIR7113///MIR4691///NDUFS8 HLA-DMB LOC100996809///HLA-DRB4///HLA -DRB1 TACC1 GREB1 EGLN3 XIST HLA-DPB1 </p>
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