

Supplementary Table 1. Common Genes between 2 Diseases Are Listed

Gene symbol	logFC (colorectal cancer)	logFC (polyp)
LY75	-1.6	2.3
SMARCA1	-1.4	2.0
EXOSC7	-1.0	2.3
CYP2A7P1	1.0	-1.4
PAWR	1.2	-1.0
PSIP1	1.3	-1.0
TRAK1	1.4	-1.2
SPINK4	2.3	-3.5
CDH3	-8.8	-6.0
CCL20	-6.7	-7.1
CEMIP	-6.1	-4.5
MSLN	-5.5	-3.7
BMP4	-5.4	-5.0
DPEP1	-4.4	-1.9
TACSTD2	-4.3	-4.6
CLIC3	-4.3	-1.2
MMP1	-4.2	-5.5
COL11A1	-4.0	-3.8
TM4SF20	-3.5	-1.4
PITX2	-3.2	-4.4
TRIB3	-3.1	-1.6
ETV4	-3.0	-3.1
RNF43	-3.0	-2.8
S100P	-2.9	-3.6
LCN2	-2.9	-4.8
NMU	-2.9	-2.8
ASCL2	-2.8	-2.7
TNFSF11	-2.8	-2.3
REG3A	-2.8	-3.0
GDF15	-2.8	-1.9
ERCC6L	-2.7	-2.7
FSBP	-2.6	-2.2
CXCL1	-2.6	-3.4
CST2	-2.6	-1.8
PRR7	-2.5	-1.8
NETO2	-2.5	-2.1
CGREF1	-2.5	-1.0
MMP7	-2.4	-2.5
DEFA5	-2.4	-4.3
KCNQ1	-2.4	-4.3
INHBA	-2.4	-2.1
NQO1	-2.4	-2.5

CXCL3	-2.3	-3.5
CKS2	-2.3	-2.8
ESM1	-2.3	-2.5
UBD	-2.3	-2.4
SOX9	-2.3	-3.5
LYZ	-2.2	-3.0
IL20RA	-2.2	-2.3
CADPS	-2.2	-2.4
TDGFIP3	-2.1	-3.1
COL1A1	-2.1	-3.5
POU5F1P4	-2.1	-1.7
AREG	-2.1	-1.1
FERMT1	-2.1	-2.9
PRR5	-2.0	-2.8
DUSP4	-2.0	-2.9
CBX8	-2.0	-1.8
NFE2L3	-2.0	-2.2
PTK7	-2.0	-1.7
KIF20A	-2.0	-3.3
PUS7	-1.9	-1.6
CBLC	-1.9	-2.7
FABP6	-1.9	-2.0
PDZK1IP1	-1.8	-3.3
IL2	-1.8	-2.0
HIST1H2BJ	-1.8	-1.4
LRFN4	-1.8	-3.3
SOX4	-1.8	-3.1
IL27RA	-1.8	-3.1
COL7A1	-1.8	-1.9
EZH2	-1.7	-2.5
CEP55	-1.7	-3.2
LIMK1	-1.7	-2.3
RRP9	-1.7	-1.9
EFNA4	-1.7	-2.2
RHBDF2	-1.7	-1.2
MATN3	-1.7	-1.5
MELK	-1.7	-2.6
GPX2	-1.7	-2.1
RRM2	-1.6	-1.9
SULT1C2	-1.6	-2.9
STK38	-1.6	-1.0
NOX1	-1.6	-2.0
PTTG3P	-1.6	-2.2
SNORA5B	-1.6	-1.2

ADGRG1	-1.6	-2.6
MARCKSL1	-1.6	-2.3
ANOS1	-1.6	-1.4
FCF1	-1.6	-1.8
RFWD3	-1.6	-1.2
CXADR	-1.6	-1.7
PATJ	-1.6	-2.0
APOBEC1	-1.6	-3.2
HMGA1	-1.5	-2.6
NCAPG	-1.5	-2.2
CDC20	-1.5	-2.3
MTHFD2	-1.5	-2.1
BACE2	-1.5	-2.1
FANCF	-1.5	-1.3
ECT2	-1.5	-2.3
TPX2	-1.5	-1.7
GPR35	-1.5	-1.8
TOP2A	-1.5	-2.6
MDK	-1.5	-2.8
ATP9A	-1.5	-1.5
TRIM31	-1.5	-1.3
CDC25B	-1.5	-1.3
KRT36	-1.5	-1.7
CELSR1	-1.5	-1.4
CSNK1E	-1.5	-1.7
PTK6	-1.4	-1.7
BUB1B	-1.4	-2.8
LRP8	-1.4	-1.2
NSUN5P1	-1.4	-1.1
TACC3	-1.4	-2.1
GTF2IRD1	-1.4	-1.5
LAMC2	-1.4	-2.0
ELMO3	-1.4	-1.5
HILPDA	-1.4	-1.1
S100A11	-1.4	-1.8
MSX2	-1.4	-1.0
MIF	-1.4	-1.0
EPHB2	-1.4	-1.9
RPIA	-1.4	-1.8
RALA	-1.4	-1.3
PDE4A	-1.4	-1.4
PARPBP	-1.4	-2.3
IFITM1	-1.4	-1.2
DDC	-1.4	-1.2

LEF1	-1.4	-1.1
MNX1	-1.4	-2.9
KRT18	-1.4	-1.5
CAPG	-1.4	-1.9
CENPE	-1.3	-2.3
TRIM29	-1.3	-1.8
CAMSAP1	-1.3	-1.2
FUT4	-1.3	-1.0
PERP	-1.3	-1.2
GALNT6	-1.3	-2.0
ITGA2	-1.3	-1.6
E2F5	-1.3	-1.1
ADAM12	-1.3	-1.1
MMP11	-1.3	-1.5
PLCB3	-1.3	-1.0
NDC80	-1.3	-3.0
MICB	-1.3	-1.9
ENC1	-1.3	-1.9
MKI67	-1.3	-1.2
TRABD	-1.3	-1.1
TMEM2	-1.3	-1.2
IGF2BP2	-1.3	-1.6
DBF4	-1.3	-1.7
MMP10	-1.3	-1.4
CDK1	-1.3	-1.9
GINS1	-1.3	-1.9
EPHB3	-1.3	-2.4
GRHL2	-1.3	-2.1
NSUN5P2	-1.3	-1.0
SFRP4	-1.3	-1.5
TTK	-1.3	-2.5
ZNF217	-1.2	-1.5
SHCBP1	-1.2	-1.2
HIST1H2AE	-1.2	-1.3
TMC5	-1.2	-3.1
PAFAH1B3	-1.2	-1.6
SNORD19B	-1.2	-1.3
ENGASE	-1.2	-1.1
CENPF	-1.2	-1.7
USH1C	-1.2	-1.8
PSMG1	-1.2	-1.0
HN1L	-1.2	-1.0
BOLA2B	-1.2	-1.1
PIK3C2B	-1.2	-1.6

VIL1	-1.2	-1.3
WDR43	-1.2	-1.1
PPM1H	-1.2	-1.4
GGCT	-1.2	-1.5
GSTP1	-1.2	-1.8
PRR15L	-1.2	-2.4
CCNE1	-1.2	-1.5
INTS7	-1.2	-1.4
MEST	-1.2	-1.4
SIM2	-1.2	-1.1
NME1	-1.2	-1.2
PKP3	-1.2	-2.2
RECQL4	-1.2	-1.9
FXYS5	-1.2	-1.3
MYO10	-1.2	-1.6
LRP4	-1.2	-1.1
PAQR4	-1.2	-1.4
TGIF1	-1.2	-1.6
UBE2C	-1.2	-1.4
BIK	-1.2	-3.4
MAPK13	-1.2	-1.5
LRRC37A2	-1.2	-1.3
YEATS4	-1.2	-1.4
GARS	-1.1	-1.2
EVPL	-1.1	-1.3
POF1B	-1.1	-3.1
MAD2L1	-1.1	-1.9
KIF14	-1.1	-1.7
GSPT1	-1.1	-1.0
PKM	-1.1	-1.6
NDUFC2	-1.1	-1.7
AMMECR1	-1.1	-1.6
APIG2	-1.1	-1.8
ZBTB1	-1.1	-1.0
SPAG1	-1.1	-1.5
TRIM24	-1.1	-1.0
KLF5	-1.1	-2.9
CDH1	-1.1	-1.5
IFT140	-1.1	-1.8
TCF7	-1.1	-1.3
NUAK2	-1.1	-1.5
RPA3	-1.1	-1.1
OSBPL3	-1.1	-1.4
SEMA3F	-1.1	-1.1

ARID4B	-1.1	-1.1
CD24	-1.1	-2.2
RAB25	-1.1	-2.5
RYR1	-1.1	-1.5
PITX1	-1.1	-1.3
APIS1	-1.1	-1.1
CARD10	-1.1	-1.5
TNFRSF10B	-1.1	-1.0
RFC3	-1.1	-1.1
DPY19L1P1	-1.1	-1.2
XYLT2	-1.1	-1.1
SNHG17	-1.1	-1.1
EZR	-1.1	-1.5
GTF3A	-1.1	-1.0
PUS1	-1.1	-1.5
CENPN	-1.1	-1.4
CHEK1	-1.1	-1.1
LGR5	-1.1	-1.7
STX3	-1.1	-1.0
ZNF184	-1.1	-1.3
TMEM132A	-1.1	-1.0
HS3ST1	-1.0	-2.4
GEMIN4	-1.0	-1.0
CAMKMT	-1.0	-1.0
CELSR3	-1.0	-1.0
BZW2	-1.0	-1.7
ACSL5	-1.0	-1.2
NUP155	-1.0	-1.1
POU2F3	-1.0	-1.2
MYO6	-1.0	-1.6
UBE2S	-1.0	-1.6
GATA6	-1.0	-1.4
ITGA6	-1.0	-1.6
MRE11A	-1.0	-1.0
FAT1	-1.0	-1.0
RBL1	-1.0	-1.4
KIF18B	-1.0	-1.6
NUP62CL	-1.0	-2.1
CKAP2	-1.0	-1.7
HAUS6	-1.0	-1.2
MYCL	-1.0	-1.5
LAMP3	-1.0	-1.6
SH2D3A	-1.0	-1.5
NBR2	-1.0	-1.2

CBX3	-1.0	-1.1
ADAP1	-1.0	-1.0
PPAT	-1.0	-1.0
TGS1	-1.0	-1.0
PDCD2	-1.0	-1.0
PTTG1	-1.0	-1.5
LRRC8E	-1.0	-1.1
AURKA	-1.0	-1.3
EPOR	-1.0	-1.5
TBC1D2	-1.0	-1.9
PDZD8	-1.0	-1.2
LTBP2	-1.0	-1.3
KPNA2	-1.0	-1.3
PCDH9	1.0	2.1
CAV2	1.0	2.0
ASPA	1.0	2.1
INPP5A	1.0	1.1
RGL1	1.0	1.1
SMC1A	1.0	1.1
GAS2L1	1.0	1.1
EPHX1	1.0	2.3
KAT2B	1.0	1.7
VAMP1	1.0	1.9
KCNAB1	1.0	1.0
ALDH3A2	1.0	1.0
CLIC2	1.0	1.1
MARCO	1.0	2.2
MAFB	1.0	1.3
RAI2	1.0	1.3
TTC28	1.0	1.3
FUT5	1.0	1.5
MSR1	1.0	1.2
PCYOX1	1.0	1.7
PTP4A1	1.0	1.1
MXI1	1.0	1.1
DUSP3	1.1	1.9
EIF5	1.1	1.5
TIAM1	1.1	1.2
PJA2	1.1	1.2
MST1L	1.1	1.3
DST	1.1	1.1
MTMR9	1.1	1.3
WASF1	1.1	1.8
MAF	1.1	1.4

KPNA6	1.1	1.1
PRNP	1.1	1.6
PIK3R1	1.1	1.3
FCGR2B	1.1	1.8
ABHD8	1.1	1.1
ZNF271P	1.1	1.0
UGP2	1.1	1.1
SCPEP1	1.1	1.3
KCNK3	1.2	1.1
AHNAK	1.2	1.2
CFLAR	1.2	1.1
C3	1.2	1.5
OLFM1	1.2	1.3
PARVA	1.2	1.3
MMRN1	1.2	1.7
AXL	1.2	1.3
FKBP5	1.2	1.5
BCL6	1.2	2.0
GYPC	1.2	1.2
ADH5	1.2	1.5
CLDN5	1.2	1.5
PLPP1	1.2	1.0
RHOQ	1.2	1.4
ST3GAL6	1.2	2.3
FOXN3	1.2	1.0
DPYD	1.2	2.0
SH3BP5	1.2	1.1
PLCL2	1.2	1.0
SETBP1	1.2	1.5
OMD	1.2	1.4
CLGN	1.2	2.2
CCL15	1.2	1.7
GABARAPL1	1.2	2.3
KIF5C	1.2	1.1
TRPC6	1.2	1.4
STAT3	1.2	1.0
TCL6	1.2	1.5
NDRG2	1.2	1.1
CREM	1.2	1.4
ABCA1	1.2	1.7
CLIP3	1.3	1.4
CALM1	1.3	1.1
FGFR1	1.3	1.0
RECK	1.3	1.1

SCARB2	1.3	1.0
RCAN1	1.3	1.9
AOX1	1.3	2.6
TRPC1	1.3	1.4
PPARGC1A	1.3	1.5
KLF11	1.3	1.5
FAS	1.3	1.0
FOXO1	1.3	1.1
AP1S2	1.3	1.4
HMP19	1.3	1.0
FYN	1.3	1.1
STAB1	1.3	1.4
FGF9	1.3	1.1
CSF1R	1.4	1.2
STARD13	1.4	1.5
RDX	1.4	2.6
BBIP1	1.4	1.1
CHGA	1.4	1.0
ZNF135	1.4	1.3
QKI	1.4	1.6
LGII	1.4	1.6
FNBP1	1.4	1.7
PEG3	1.4	2.3
FGF2	1.4	2.2
HSPA6	1.4	1.5
TSC22D3	1.4	1.2
GREM2	1.4	1.8
STK17A	1.4	1.4
PTPRC	1.4	1.1
LIMS2	1.4	2.0
TMEM47	1.4	1.9
DLC1	1.4	2.0
SST	1.4	1.1
NID1	1.4	1.7
IL11RA	1.5	1.7
GAP43	1.5	2.3
SCG5	1.5	1.9
TMOD1	1.5	1.9
NR3C1	1.5	2.5
EPM2A	1.5	1.5
P3H2	1.5	1.7
MT4	1.5	1.3
DNAJB5	1.5	1.8
IGF1	1.5	2.4

PTGER3	1.5	1.5
CFHR1	1.5	2.5
FN1	1.5	1.8
ENPP2	1.5	1.5
ZSCAN18	1.5	1.8
JAM2	1.5	1.6
ABCA6	1.5	2.8
DTNA	1.5	1.3
CPVL	1.5	1.2
TGFBR3	1.5	2.0
SCG2	1.5	1.5
PDE2A	1.5	2.3
CBX7	1.6	2.0
FOLR2	1.6	1.3
GAS1	1.6	2.1
PCDH7	1.6	1.8
BEX4	1.6	2.0
LILRB5	1.6	1.0
ZNF331	1.6	1.4
CALY	1.6	1.2
TSPAN7	1.6	1.1
CNR1	1.6	1.8
ZFPM2	1.7	1.7
CITED2	1.7	2.0
PPP1R12B	1.7	2.4
AAK1	1.7	2.0
CFH	1.7	3.0
CACNB2	1.7	1.1
SYNE1	1.7	2.1
HLA	1.7	3.6
FERMT2	1.7	2.8
ZBTB16	1.7	2.4
CAND2	1.7	1.4
CD14	1.7	2.1
DMD	1.7	3.9
CLU	1.7	4.7
USP12	1.7	1.5
LEPROT	1.7	3.2
SPG20	1.8	2.0
ADAMTSL3	1.8	2.8
IL6R	1.8	2.2
NAP1L2	1.8	2.3
AIF1	1.8	1.2
IL6ST	1.8	1.8

CALD1	1.8	3.1
ACACB	1.8	2.5
SOCS2	1.9	1.6
CCDC69	1.9	3.4
AGTR1	1.9	3.2
HBD	1.9	1.5
PLPP3	1.9	2.2
GHR	1.9	3.1
ZEB1	1.9	2.7
LAMA2	1.9	1.4
CD33	1.9	2.6
C1QA	1.9	1.4
CAP2	1.9	2.6
FXYD1	1.9	3.3
GADD45B	1.9	2.7
ANK2	1.9	1.9
COL21A1	2.0	2.0
COL6A1	2.0	1.4
TOR1AIP1	2.0	1.6
MYOT	2.0	1.8
EPHA7	2.0	2.7
VIP	2.0	2.2
MT1G	2.0	1.3
MT1E	2.0	1.4
HLF	2.0	3.0
FGFR2	2.1	2.1
MT2A	2.1	1.9
NPY1R	2.1	2.0
METTL7A	2.1	1.8
PRELP	2.1	2.6
FGL2	2.1	2.1
SRPX	2.2	2.5
REEP1	2.2	3.4
PLN	2.2	3.3
DCN	2.2	1.1
PTN	2.2	1.8
LMOD1	2.2	2.1
MT1X	2.2	1.8
CEBPD	2.2	2.2
MS4A4A	2.2	1.7
C1QB	2.2	1.4
SDPR	2.3	2.5
KLF9	2.3	2.4
PCOLCE2	2.3	2.2

VSIG4	2.4	2.4
PKD4	2.4	2.7
SORBS2	2.4	2.9
DYNC1H1	2.5	2.7
SCNN1B	2.5	2.1
SSBP2	2.5	1.9
TMEM100	2.5	2.2
MMP28	2.6	1.5
CD36	2.6	2.1
ATPIA2	2.6	3.7
CD163	2.7	2.5
MRC1	2.7	2.1
CDH19	2.7	3.0
CXCL12	2.7	3.0
C7	2.8	4.4
SFRP1	2.8	2.3
FHL1	2.9	3.3
RERGL	2.9	1.6
BCHE	3.0	5.4
CPM	3.2	2.1
FABP4	3.5	2.4
GPX3	3.5	3.3
TNXB	3.7	2.8
CA2	3.7	3.5
ABCA8	3.7	5.1
DUSP1	4.1	1.3
LYVE1	4.2	4.6
PLP1	4.3	3.3
GPM6B	4.3	4.3
MYH11	4.3	4.7
ADH1B	4.6	5.1
HBA2	4.7	2.1
HBB	4.8	1.9
MT1M	5.7	3.4
CA1	6.3	3.9
ZG16	6.9	4.8
PYY	7.4	5.1
GCG	9.8	6.3