**Supplementary Table S1 Gene list of the 680 colorectal cancer genes panel**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| *ABCC4*(NM\_005845) | *ABCC5*(NM\_005688) | | *ABCG1*(NM\_016818) | | *ABCG2*(NM\_004827) | |
| *AXIN2*(NM\_004655) | *AKT1*(NM\_005163) | | *AKT2*(NM\_001626) | | *AKT3*(NM\_181690) | |
| *AR*(NM\_000044) | *ARAF*(NM\_001654) | | *AREG(*NM\_001657) | | *ATRIP*(NM\_130384) | |
| *ARMS2*(NM\_001099667) | *AXIN1*(NM\_003502) | | *AKR1C3*(NM\_001253908) | | *AXL*(NM\_001699) | |
| *BCL2L1*(NM\_138578) | *BCL2L11*(NM\_138625) | | *BCL6*(NM\_001706) | | *BCOR*(NM\_001123383) | |
| *BRE*(NM\_004899) | *BRIP1*(NM\_032043) | | *BTK*(NM\_000061) | | *BUB1*(NM\_004336) | |
| *CASP7*(NM\_001227) | *CASP8*(NM\_001228) | | *CBFB*(NM\_001755) | | *CBL*(NM\_005188) | |
| *CCND3*(NM\_001760) | *CCNE1*(NM\_001238) | | *CD274*(NM\_014143) | | *CD74*(NM\_001025159) | |
| *CDK4*(NM\_000075) | *CDK6*(NM\_001259) | | *CDK8*(NM\_001260) | | *CDKN1A*(NM\_078467) | |
| *CFH*(NM\_000186) | *CFTR*(NM\_000492) | | *CHD4*(NM\_001273) | | *CHEK1*(NM\_001274) | |
| *CRLF2*(NM\_022148) | *CSDE1*(NM\_001007553) | | *CSF1R*(NM\_005211) | | *CSF3R*(NM\_156039) | |
| *CXXC4*(NM\_025212) | *CYLD*(NM\_015247) | | *CNTNAP5*(NM\_130773) | | *CYP1A1*(NM\_000499) | |
| *CYP3A4*(NM\_017460) | *CYP3A5*(NM\_000777) | | *DAXX(NM\_001141969)* | | *DDB2*(NM\_000107) | |
| *DOT1L*(NM\_032482) | *DPYD*(NM\_000110) | | *DSCAM*(NM\_001389) | | *DYNC2H1*(NM\_001080463) | |
| *ELAC2*(NM\_001165962) | *EML4*(NM\_019063) | | *ENOSF1*(NM\_017512) | | *EP300*(NM\_001429) | |
| *ERBB2*(NM\_004448) | *ERBB3*(NM\_001982) | | *ERBB4*(NM\_001042599) | | *ERCC1*(NM\_001983) | |
| *ESR1(NM\_000125)* | *ESR2*(NM\_001040275) | | *ETV1*(NM\_004956) | | *ETV4*(NM\_001986) | |
| *FANCB*(NM\_001018113) | *FANCC*(NM\_000136) | | *FANCG*(NM\_004629) | | *FANCI*(NM\_001113378) | |
| *FGF*10(NM\_004465) | *FGF*19(NM\_005117) | | *FGF*2(NM\_002006) | | *FGF*23(NM\_020638) | |
| *FGFR2*(NM\_000141) | *FGFR3(NM\_000142)* | | *FGFR4*(NM\_022963) | | *FH*(NM\_000143) | |
| *FOXM*1(NM\_021953) | *FOXP*1(NM\_032682) | | *FOXP*2(NM\_014491) | | *FRS*2(NM\_006654) | |
| *GATA*6(NM\_005257) | *GEMIN*6(NM\_024775) | | *GEN1(NM\_182625)* | | *GGH*(NM\_003878) | |
| *GPER*1(NM\_001039966) | *GPRIN*2(NM\_014696) | | *GPX*5(NM\_001509) | | *GREM*1(NM\_013372) | |
| *H*3*F*3*A*(NM\_002107) | *HDAC*2(NM\_001527) | | *HERC*2(NM\_004667) | | *HFE*2(NM\_145277) | |
| *HLA*-*DQB*1(NM\_002123) | *HLA*-*DRB*1(NM\_002124) | | *HLA*-*G*(NM\_002127) | | *HMGA*2(NM\_003483) | |
| *HSD*3*B*2(NM\_000198) | *HSP*90*AA*1(NM\_005348) | | *HSPA*5(NM\_005347) | | *HTRA*1(NM\_002775) | |
| *IGFBP*3(NM\_001013398) | *IKBKE*(NM\_001193321) | | *IKZF*1(NM\_006060) | | *IL*13(NM\_002188) | |
| *IRS*2(NM\_003749) | *JAK*1(NM\_002227) | | *JAK*2(NM\_004972) | | *JAK*3(NM\_000215) | |
| *KLC*1(NM\_001130107) | *KLF*4(NM\_004235) | | *KMT*2*A*(NM\_001197104) | | *KMT*2*B*(NM\_014727) | |
| *KRT*5(NM\_000424) | *LARP*4(NM\_052879) | | *LATS*1(NM\_004690) | | *LATS*2(NM\_014572) | |
| *LRP*1*B*(NM\_018557) | *LRP*2(NM\_004525) | | *LYN(NM\_002350)* | | *LZTR*1(NM\_006767) | |
| *MAPK*1(NM\_002745) | *MAPK*3(NM\_001040056) | | *MAPKBP*1(NM\_014994) | | *MAX*(NM\_002382) | |
| *MGAT*4*A*(NM\_012214) | *MIR*3936*HG*(*NR*\_110997) | | *MIR*4713*HG*(*NR*\_146310) | | *MITF*(NM\_000248) | |
| *MST*1*R*(NM\_001244937) | *MTHFR*(NM\_005957) | | *MTOR*(NM\_004958) | | *MTUS*1(NM\_020749) | |
| *NBN*(NM\_002485) | *NCOA*1(NM\_003743) | | *NCOA*3(NM\_006534) | | *NCOA*4(NM\_001145260) | |
| *NOTCH*3(NM\_000435) | *NOVA*1(NM\_006491) | | *NPM*1(NM\_002520) | | *NQO*1(NM\_000903) | |
| *NTRK*1(NM\_002529) | *NTRK*2(NM\_006180) | | *NTRK*3(NM\_001007156) | | *NUP*93(NM\_014669) | |
| *PARK*7(NM\_007262) | *PARP*1(NM\_001618) | | *PAX*3(NM\_000438) | | *PAX*5(NM\_016734) | |
| *PDGFRA*(NM\_006206) | *PDGFRB*(NM\_002609) | | *PDPK*1(NM\_002613) | | *PGR*(NM\_000926) | |
| *PIM*1(NM\_001243186) | *PLAUR*(NM\_002659) | | *PLCG*2(NM\_002661) | | *PLIN*2(NM\_001122) | |
| *PPP*2*R*1*A*(NM\_014225) | *PPP*2*R*2*A*(NM\_002717) | | *PPP*4*R*4(NM\_058237) | | *PRDM*1(NM\_001198) | |
| *PSME*2(NM\_002818) | *PTCH*1(NM\_000264) | | *PTCH*2(NM\_003738) | | *PTEN*(NM\_000314) | |
| *RAC*1(NM\_018890) | *RAD*21(NM\_006265) | | *RAD*50(NM\_005732) | | *RAD*51(NM\_002875) | |
| *RFC*1(NM\_002913) | *RFC*4(NM\_002916) | | *RGS*5(NM\_003617) | | *RIF*1(NM\_001177663) | |
| *RRM1*(NM\_001033) | *RAD*51*C*(NM\_058216) | | *RAD*51*D*(NM\_002878) | | *RAD*52(NM\_134424) | |
| *RICTOR*(NM\_152756) | *RNF*43(NM\_017763) | | *ROBO*2(NM\_002942) | | *ROS*1(NM\_002944) | |
| *SDHC*(NM\_003001) | *SDHD*(NM\_003002) | | *SELE*(NM\_000450) | | *SELL*(NM\_000655) | |
| *SHMT1*(NM\_004169) | *SHOX*(NM\_000451) | | *SHPRH*(NM\_173082) | | *SLC*15*A*2(NM\_021082) | |
| *SLC*29*A*1(NM\_004955.2) | *SLC*31*A*1(NM\_001859) | | *SLC*34*A*2(NM\_006424) | | *SLCO*1*B*1(NM\_006446) | |
| *SMO*(NM\_005631) | *SOCS*1(NM\_003745) | | *SOCS*6(NM\_004232) | | *SOD*2(NM\_001024465) | |
| *SRSF*2(NM\_003016) | *SS*18(NM\_001007559) | | *STAG*2(NM\_001042749) | | *STAT*3(NM\_139276) | |
| *TBX*3(NM\_005996) | *TCEB*1(NM\_005648) | | *TERC*(*NR*\_001566) | | *TERT*(NM\_198253) | |
| *TNFAIP*3(NM\_006290) | *TNFSF*8(NM\_001244) | | *TNFRSF*11*B*(NM\_002546) | | *TP*53(NM\_000546) | |
| *TRAM*2-*AS*1(*NR*\_103446) | *TREX*2(NM\_080701) | | *TSC*1(NM\_000368) | | *TSC*2(NM\_000548) | |
| *WAS*(NM\_000377) | *WT*1(NM\_024426) | | *XRCC*1(NM\_006297) | | *ZBTB*16(NM\_006006) | |
| *XPA*(NM\_000380) | *XRCC*4(NM\_022406) | | *ZNF*423(NM\_001271620) | | *UGT*1*A*1(NM\_000463) | |
| *XPO*1(NM\_003400) | *YES*1(NM\_005433) | | *ZRSR*2(NM\_005089) | | | |
| *ABCB1*(NM\_000927) | | *ABCC1*(NM\_004996) | | *ABCC11*(NM\_032583) | | *ABCC2*(NM\_000392) |
| *ADCY2*(NM\_020546) | | *ADH1B*(NM\_000668) | | *ADH1C*(NM\_000669) | | *AIP*(NM\_003977) |
| *ANXA5*(NM\_001154) | | *APC*(NM\_000038) | | *APLF*(NM\_173545) | | *APOB*(NM\_000384) |
| *ATR*(NM\_001184) | | *ARID1A*(NM\_006015) | | *ATRX*(NM\_000489) | | *AURKA*(NM\_003600) |
| *B2M*(NM\_004048) | | *BAP1*(NM\_004656) | | *BARD1*(NM\_000465) | | *BCL2*(NM\_000633) |
| *BRCA1*(NM\_007294) | | *BRCA*2(NM\_000059) | | *BRD*2(NM\_001113182) | | *BRD*4(NM\_058243) |
| *CAMTA1*(NM\_015215) | | *CAPN2*(NM\_001748) | | *CARD11*(NM\_032415) | | *CASC8*(*NR*\_024393) |
| *CCDC6*(NM\_005436) | | *CCL18*(NM\_002988) | | *CCND1*(NM\_053056) | | *CCND2*(NM\_001759) |
| *CDC73*(NM\_024529) | | *CDH1*(NM\_004360) | | *CDK12*(NM\_016507) | | *CDK2*(NM\_001798) |
| *CDKN2C*(NM\_001262) | | *CEBPA*(NM\_004364) | | *CES1*(NM\_001025195) | | *CFD*(NM\_001928) |
| *CMPK1*(NM\_016308) | | *CYP19A1*(NM\_000103) | | *CREBBP*(NM\_004380) | | *CRKL*(NM\_005207) |
| *CTNNA1*(NM\_001903) | | *CTNNB1*(NM\_001904) | | *CUL3*(NM\_003590) | | *CXCR4*(NM\_003467) |
| *CYP2C8*(NM\_000770) | | *CYP2C9*(NM\_000771) | | *CYP2D6*(NM\_000106) | | *CYP2E1*(NM\_000773) |
| *DHFR*(NM\_000791) | | *DICER1*(NM\_177438) | | *D*NM*T1*(NM\_001130823) | | *D*NM*T3A*(NM\_022552) |
| *EEF1A1*(NM\_001402) | | *EGF*(NM\_001963) | | *EGFR*(NM\_005228) | | *EIF3A*(NM\_003750) |
| *EPHA5*(NM\_004439) | | *EPHA7*(NM\_004440) | | *EPHB1*(NM\_004441) | | *EPHX1*(NM\_001136018) |
| *ERCC6*(NM\_000124) | | *EREG*(NM\_001432) | | *ERG*(NM\_182918) | | *ERRFI1*(NM\_018948) |
| *EZH2*(NM\_004456) | | *FAM175A*(NM\_139076) | | *FAM46C*(NM\_017709) | | *FANCA*(NM\_000135) |
| *FBXW*7(NM\_018315) | | *FCGR*2*A*(NM\_021642) | | *FCGR*3*A*(NM\_001127593) | | *FGF*1(NM\_000800) |
| *FGF*7(NM\_002009) | | *FGF*8(NM\_006119) | | *FGF*9(NM\_002010) | | *FGFR1*(NM\_023110) |
| *FOLR*3(NM\_000804) | | *FOXA*1(NM\_004496) | | *FOXK*2(NM\_004514) | | *FOXL*2(NM\_023067) |
| *GALNT*14(NM\_001253826) | | *GATA*1(NM\_002049) | | *GATA*2(NM\_032638) | | *GATA*3(NM\_001002295) |
| *GMEB*1(NM\_006582) | | *GNA*11(NM\_002067) | | *GNAQ*(NM\_002072) | | *GNAS*(NM\_000516) |
| *GSTA*1(NM\_145740) | | *GSTM*3(NM\_000849) | | *GSTP*1(NM\_000852) | | *H*19(*NR*\_002196) |
| *HLA*-*A*(NM\_002116) | | *HLA*-*B*(NM\_005514) | | *HLA*-*C*(NM\_002117) | | *HLA*-*DPB*1(NM\_002121) |
| *HOXB*13(NM\_006361) | | *HPSE*2(NM\_021828) | | *HRAS*(NM\_005343) | | *HSD*17*B*3(NM\_000197) |
| *IFNL*2(NM\_172138) | | *IFNLR*1(NM\_170743) | | *IGF*1*R*(NM\_000875) | | *IGF*2(NM\_000612) |
| *INHBA*(NM\_002192) | | *INPP*4*B*(NM\_003866) | | *IRF*1(NM\_002198) | | *IRF*4(NM\_001195286) |
| *KDM*5*C*(NM\_004187) | | *KIF*1*B*(NM\_015074) | | *KDR*(NM\_002253) | | *KIT*(NM\_000222) |
| *KDM*6*A*(NM\_021140) | | *KIF*5*B*(NM\_004521) | | *KLLN*(NM\_001126049) | | *KMT*2*D*(NM\_003482) |
| *LIG*4(NM\_002312) | | *LMO*1(NM\_002315) | | *LRIG*3(NM\_153377) | | *LRMDA*(NM\_032024.3) |
| *MAP*2*K*4(NM\_003010) | | *MAP*3*K*1(NM\_005921) | | *MAP*3*K*6(NM\_004672) | | *MAP*4*K*4(NM\_004834) |
| *MED*12(NM\_005120) | | *MEF*2*B*(NM\_005919) | | *MEN*1(NM\_000244) | | *MET*(NM\_001127500) |
| *MRE*11*A*(NM\_005590) | | *MSH*2(NM\_000251) | | *MSH*3(NM\_002439) | | *MSH*6(NM\_000179) |
| *MYD*88(NM\_001172567) | | *MYOD*1(NM\_002478) | | *NAB*2(NM\_005967) | | *NAT*2(NM\_000015) |
| *NFKBIA*(NM\_020529) | | *NKX*2-1(NM\_003317) | | *NOS*3(NM\_000603) | | *NOTCH*2(NM\_024408) |
| *NRG*1(NM\_001159995) | | *NSD*1(NM\_022455) | | *NT*5*C*2(NM\_012229) | | *NTHL*1(NM\_002528) |
| *PALB*2(NM\_024675) | | *PALLD*(NM\_016081) | | *PARD*3*B*(NM\_057177) | | *PARK*2(NM\_004562) |
| *PCLO*(NM\_014510) | | *PDCD*1(NM\_005018) | | *PDCD*1*LG*2(NM\_025239) | | *PDGFB*(NM\_002608) |
| *PIK*3*CD*(NM\_005026) | | *PIK*3*CG*(NM\_002649) | | *PIK*3*R*1(NM\_181523) | | *PIK*3*R*2(NM\_005027) |
| *POLH*(NM\_006502) | | *POLQ*(NM\_199420) | | *POR*(NM\_000941) | | *PPIB*(NM\_000942) |
| *PRKAR*1*A*(NM\_002734) | | *PRKCI*(NM\_002740) | | *PRKDC*(NM\_006904) | | *PRSS*1(NM\_002769) |
| *PTPN*11(NM\_002834) | | *PTPRD*(NM\_001040712) | | *PTPRT*(NM\_007050) | | *PZP*(NM\_002864) |
| *RBFOX*1(NM\_145891) | | *RBM*10(NM\_005676) | | *RET*(NM\_020630) | | *REV*3*L*(NM\_002912) |
| *RPS20*(NM\_001023) | | *RPS*6*KB*1(NM\_003161) | | *RPTOR*(NM\_020761) | | *RRAS*2(NM\_001177314) |
| *REL*(NM\_002908) | | *RHBDF*2(NM\_024599) | | *RHEB*(NM\_005614) | | *RHOA*(NM\_001664) |
| *SCN10A*(NM\_006514) | | *SDHA*(NM\_004168) | | *SDHAF*2(NM\_017841) | | *SDHB*(NM\_003000) |
| *SETD2*(NM\_014159) | | *SETD7(NM\_030648)* | | *SF*3*B*1(NM\_012433) | | *SH*2*B*3(NM\_005475) |
| *SLC*22*A*4(NM\_003059) | | *SLC*22*A*5(NM\_003060) | | *SLC*28*A*1(NM\_004213) | | *SLC*28*A*2(NM\_004212) |
| *SMAD*4(NM\_005359) | | *SMARCA*4(NM\_001128849) | | *SRC*(NM\_198291) | | *SMARCB*1(NM\_003073) |
| *SPEN*(NM\_015001) | | *SPINK*1(NM\_003122) | | *SPOP*(NM\_003563) | | *SRD*5*A*2(NM\_000348) |
| *SWI*5(NM\_001040011) | | *SYK*(NM\_001135052) | | *SYNE*1(NM\_033071) | | *TACSTD*2(NM\_002353) |
| *TGFBR*2(NM\_001024847) | | *TMEM*127(NM\_017849) | | *TMPRSS*2(NM\_001135099) | | *TNF*(NM\_000594) |
| *TOP*2*A*(NM\_001067) | | *TP*53*BP*1(NM\_001141979) | | *TPMT*(NM\_000367) | | *TRAF*1(NM\_005658) |
| *TYMS*(NM\_001071) | | *U*2*AF*1(NM\_006758) | | *UBE*2*A*(NM\_003336) | | *UGT*1*A*6(NM\_001072) |
| *ZNF*367(NM\_153695) | | *UBE*2*V*2(NM\_003350) | | *VEGFA*(NM\_001025366) | | *WNK*2(NM\_006648) |
| *ZNF*750(NM\_024702) | | *UGT*1*A*4(NM\_007120) | | *VHL*(NM\_000551) | | *WRN*(NM\_000553) |
| *ABL1*(NM\_005157) | | *ACSS2(NM\_018677)* | | *ACTL6A(NM\_004301)* | | *ACVR1(NM\_001105)* |
| *ALDH2*(NM\_000690) | | *ALK(NM\_004304)* | | *ALOX12(NM\_000697)* | | *AMER1(NM\_152424)* |
| *ARID1B*(NM\_020732) | | *ARID2(NM\_152641)* | | *AURKB(NM\_004217)* | | *ASNS(NM\_001673)* |
| *ASPH*(NM\_004318) | | *ASXL1(NM\_015338)* | | *ATM(NM\_000051)* | | *ATP7B(NM\_000053)* |
| *BCORL1*(NM\_021946) | | *BLM(NM\_000057)* | | *BMPR1A(NM\_004329)* | | *BRAF(NM\_004333)* |
| *C8orf34*(NM\_052958) | | *CACNA1C(NM\_000719)* | | *CADM2(NM\_153184)* | | *CALR(NM\_004343)* |
| *CBLB*(NM\_170662) | | *CBR1(NM\_001757)* | | *CBR3(NM\_001236)* | | *CCAT2(NR\_109834)* |
| *CD79A*(NM\_001783) | | *CD79B(NM\_001039933)* | | *CDA(NM\_001785)* | | *CDC25C(NM\_001790)* |
| *CDKN1B*(NM\_004064) | | *CDKN1C(NM\_000076)* | | *CDKN2A(NM\_000077)* | | *CDKN2B(NM\_004936)* |
| *CHEK2*(NM\_007194) | | *FNTB(NM\_002028.3)* | | *CIC(NM\_015125)* | | *CLK2(NM\_003993)* |
| *CSMD3*(NM\_052900) | | *CSNK1A1(NM\_001892)* | | *CSNK2A1(NM\_001895)* | | *CTCF(NM\_006565)* |
| *CYP1A2*(NM\_000761) | | *CYP1B1(NM\_000104)* | | *CYP2B6(NM\_000767)* | | *CYP2C19(NM\_000769)* |
| *DDIT3*(NM\_004083) | | *DDR2(NM\_006182)* | | *DDX3X(NM\_001356)* | | *DDX51(NM\_175066)* |
| *E2F7*(NM\_203394) | | *ECT2L(NM\_001077706)* | | *EDN1(NM\_001955)* | | *EED(NM\_003797)* |
| *EPAS1*(NM\_001430) | | *EPCAM(NM\_002354)* | | *EPHA2(NM\_004431)* | | *EPHA3(NM\_005233)* |
| *ERCC2*(NM\_000400) | | *ERCC3(NM\_000122)* | | *ERCC4(NM\_005236)* | | *ERCC5(NM\_000123)* |
| *ETV6*(NM\_001987) | | *EWSR1(NM\_005243)* | | *EXT1(NM\_000127)* | | *EXT2(NM\_000401)* |
| *FANCL*(NM\_018062) | | *FANCM(NM\_020937)* | | *FAT1(NM\_005245)* | | *FBN3(NM\_032447)* |
| *FGF3*(NM\_005247) | | *FGF4(NM\_002007)* | | *FGF5(NM\_004464)* | | *FGF6(NM\_020996)* |
| *FLCN*(NM\_144997) | | *FLT1(NM\_002019)* | | *FLT3(NM\_004119)* | | *FLT4(NM\_182925)* |
| *FUBP1*(NM\_003902) | | *FUS(NM\_004960)* | | *GAB2(NM\_080491)* | | *GALNT12(NM\_024642)* |
| *GK5*(NM\_001039547) | | *GLI1(NM\_005269)* | | *GLIPR1(NM\_006851)* | | *GLRX(NM\_002064)* |
| *GRIN2A*(NM\_000833) | | *GRM1(NM\_001278064)* | | *GSK3B(NM\_001146156)* | | *GSR(NM\_000637)* |
| *HFM1*(NM\_001017975) | | *HGF(NM\_000601)* | | *HIF1A(NM\_001530)* | | *HKDC1(NM\_025130)* |
| *HMGCR*(NM\_000859) | | *HNF1A(NM\_000545)* | | *HNF1B(NM\_000458)* | | *HOTAIR(NR\_047517)* |
| *IDH1*(NM\_005896) | | *IDH2(NM\_002168)* | | *IFNGR1(NM\_000416)* | | *IFNGR2(NM\_005534)* |
| *IL16*(NM\_001172128) | | *IL1B(NM\_000576)* | | *IL23R(NM\_144701)* | | *IL7R(NM\_002185)* |
| *JUN*(NM\_002228) | | *KCNJ5(NM\_000890)* | | *KDM5A(NM\_001042603)* | | *KEAP1(NM\_012289)* |
| *KMT2C*(NM\_170606) | | *KRAS(NM\_004985)* | | *KRT14(NM\_000526)* | | *KRT15(NM\_002275)* |
| *LBR*(NM\_002296) | | *LGALS8(NM\_006499)* | | *LGR5(NM\_003667)* | | *LIG3(NM\_013975)* |
| *MAD1L1*(NM\_003550) | | *MALAT1(NR\_002819)* | | *MAP2K1(NM\_002755)* | | *MAP2K2(NM\_030662)* |
| *MCL1*(NM\_021960) | | *MDH2(NM\_005918)* | | *MDM2(NM\_002392)* | | *MDM4(NM\_002393)* |
| *MKI67*(NM\_002417) | | *MLH1(NM\_000249)* | | *MLH3(NM\_001040108)* | | *MPL(NM\_005373)* |
| *MUTYH*(NM\_001128425) | | *MYC(NM\_002467)* | | *MYCL(NM\_001033082)* | | *MYCN(NM\_005378)* |
| *NF1*(NM\_000267) | | *NOTCH1(NM\_017617)* | | *NF2(NM\_000268)* | | *NFE2L2(NM\_006164)* |
| *NQO2*(NM\_000904) | | *NR1I2(NM\_003889)* | | *NR4A3(NM\_006981)* | | *NRAS(NM\_002524)* |
| *NUTM1*(NM\_175741) | | *OPRM1(NM\_001008503)* | | *OTOS(NM\_148961)* | | *PAK1(NM\_002576)* |
| *PAX7*(NM\_002584) | | *PAX8(NM\_003466)* | | *PBRM1(NM\_018165)* | | *PCBP1(NM\_006196)* |
| *PIAS4*(NM\_015897) | | *PIGB(NM\_004855)* | | *PIK3CA(NM\_006218)* | | *PIK3CB(NM\_006219)* |
| *PMS1(*NM\_000534) | | *PMS2(NM\_000535)* | | *POLD1(NM\_002691)* | | *POLE(NM\_006231)* |
| *PRDX4*(NM\_006406) | | *PREX2(NM\_025170)* | | *PRKACA(NM\_002730)* | | *PRKACB(NM\_182948)* |
| *PTGER4(*NM\_000958) | | *PTGES(NM\_004878)* | | *PTGS2(NM\_000963)* | | *PTN(NM\_002825)* |
| *RAD51B*(NM\_002877) | | *RAF1(NM\_002880)* | | *RARA(NM\_000964)* | | *RB1(NM\_000321)* |
| *RILP*(NM\_031430) | | *RINT1(NM\_021930)* | | *RIT1(NM\_006912)* | | *RNASEL(NM\_021133)* |
| *RAD54L*(NM\_003579) | | *RECK(NM\_021111)* | | *RECQL(NM\_002907)* | | *RECQL4(NM\_004260)* |
| *RPA4(*NM\_013347) | | *RSF1(NM\_016578)* | | *RUNX1(NM\_001754)* | | *SBDS(NM\_016038)* |
| *SEMA3C*(NM\_006379) | | *SERPINB3(NM\_006919)* | | *SERPINB4(NM\_002974)* | | *SETBP1(NM\_015559)* |
| *SLC19A1*(NM\_030582) | | *SLC22A1(NM\_003057)* | | *SLC22A16(NM\_033125)* | | *SLC22A2(NM\_003058)* |
| *SLCO1B3(*NM\_019844) | | *SLX4(NM\_032444)* | | *SMAD2(NM\_005901)* | | *SMAD3(NM\_005902)* |
| *SOX10(*NM\_006941) | | *SOX2(NM\_003106)* | | *SOX4(NM\_003107)* | | *SOX9(NM\_000346)* |
| *STK11*(NM\_000455) | | *SUFU(NM\_016169)* | | *SULT1A1(NM\_001055)* | | *SUZ12(NM\_015355)* |
| *TET1*(NM\_030625) | | *TET2(NM\_017628)* | | *TFE3(NM\_006521)* | | *TGFB1(NM\_000660)* |
| *TNFRSF14*(NM\_003820) | | *TNFSF11(NM\_033012)* | | *TNFRSF19(NM\_018647)* | | *TOP1(NM\_003286)* |
| *TSHR*(NM\_000369) | | *TSPAN31(NM\_005981)* | | *TTK(NM\_001166691)* | | *TUBB1(NM\_030773)* |
| *UBE2I(*NM\_003345) | | *WIF1(NM\_007191)* | | *XBP1(NM\_005080)* | | *XRCC2(NM\_005431)* |
| *VEGFC*(NM\_005429) | | *WNT5B(NM\_032642)* | | *XPC(NM\_004628)* | | *YAP1(NM\_006106)* |