Liste des 524 gènes du panel TSO500 + TBM + MSI

Tableau 2 : Contenu d'ADN dans TruSight Oncology 500 et TruSight Oncology 500 High-Throughput

ABL1	*BCR*	*CHEK1*	*EPHA7*	*FGF23*	*GSK3B*	*IDH2*	*MAP3K1*	*NF2*	*PIK3CA*	*RAD51D*	*SMAD4*	*TGFBR2*
ABL2	*BIRC3*	*CHEK2*	*EPHB1*	*FGF3*	*H3F3A*	*IFNGR1*	*MAP3K13*	*NFE2L2*	*PIK3CB*	*RAD52*	*SMARCA4*	*TMEM127*
ACVR1	*BLM*	*CIC*	*ERBB2*	*FGF4*	*H3F3B*	*INHBA*	*MAP3K14*	*NFKBIA*	*PIK3CD*	*RAD54L*	*SMARCB1*	*TMPRSS2*
ACVR1B	*BMPR1A*	*CREBBP*	*ERBB3*	*FGF5*	*H3F3C*	*INPP4A*	*MAP3K4*	*NKX2-1*	*PIK3CG*	*RAF1*	*SMARCD1*	*TNFAIP3*
AKT1	*BRAF*	*CRKL*	*ERBB4*	*FGF6*	*HGF*	*INPP4B*	*MAPK1*	*NKX3-1*	*PIK3R1*	*RANBP2*	*SMC1A*	*TNFRSF14*
AKT2	*BRCA1*[a]	*CRLF2*	*ERCC1*	*FGF7*	*HIST1H1C*	*INSR*	*MAPK3*	*NOTCH1*	*PIK3R2*	*RARA*	*SMC3*	*TOP1*
AKT3	*BRCA2*[a]	*CSF1R*	*ERCC2*	*FGFR1*	*HIST1H2BD*	*IRF2*	*MAX*	*NOTCH2*	*PIK3R3*	*RASA1*	*SMO*	*TOP2A*
ALK	*BRD4*	*CSF3R*	*ERCC3*	*FGFR2*	*HIST1H3A*	*IRF4*	*MCL1*	*NOTCH3*	*PIM1*	*RB1*	*SNCAIP*	*TP53*
ALOX12B	*BRIP1*	*CSNK1A1*	*ERCC4*	*FGFR3*	*HIST1H3B*	*IRS1*	*MDC1*	*NOTCH4*	*PLCG2*	*RBM10*	*SOCS1*	*TP63*
ANKRD11	*BTG1*	*CTCF*	*ERCC5*	*FGFR4*	*HIST1H3C*	*IRS2*	*MDM2*	*NPM1*	*PLK2*	*RECQL4*	*SOX10*	*TRAF2*
ANKRD26	*BTK*	*CTLA4*	*ERG*	*FH*	*HIST1H3D*	*JAK1*	*MDM4*	*NRAS*	*PMAIP1*	*REL*	*SOX17*	*TRAF7*
APC	*C11orf30*	*CTNNA1*	*ERRFI1*	*FLCN*	*HIST1H3E*	*JAK2*	*MED12*	*NRG1*	*PMS1*	*RET*	*SOX2*	*TSC1*
AR	*CALR*	*CTNNB1*	*ESR1*	*FLI1*	*HIST1H3F*	*JAK3*	*MEF2B*	*NSD1*	*PMS2*	*RFWD2*	*SOX9*	*TSC2*
ARAF	*CARD11*	*CUL3*	*ETS1*	*FLT1*	*HIST1H3G*	*JUN*	*MEN1*	*NTRK1*	*PNRC1*	*RHEB*	*SPEN*	*TSHR*
ARFRP1	*CASP8*	*CUX1*	*ETV1*	*FLT3*	*HIST1H3H*	*KAT6A*	*MET*	*NTRK2*	*POLD1*	*RHOA*	*SPOP*	*U2AF1*
ARID1A	*CBFB*	*CXCR4*	*ETV4*	*FLT4*	*HIST1H3I*	*KDM5A*	*MGA*	*NTRK3*	*POLE*	*RICTOR*	*SPTA1*	*VEGFA*
ARID1B	*CBL*	*CYLD*	*ETV5*	*FOXA1*	*HIST1H3J*	*KDM5C*	*MITF*	*NUP93*	*PPARG*	*RIT1*	*SRC*	*VHL*
ARID2	*CCND1*	*DAXX*	*ETV6*	*FOXL2*	*HIST2H3A*	*KDM6A*	*MLH1*	*NUTM1*	*PPM1D*	*RNF43*	*SRSF2*	*VTCN1*
ARID5B	*CCND2*	*DCUN1D1*	*EWSR1*	*FOXO1*	*HIST2H3C*	*KDR*	*MLL*	*PAK1*	*PPP2R1A*	*ROS1*	*STAG1*	*WISP3*
ASXL1	*CCND3*	*DDR2*	*EZH2*	*FOXP1*	*HIST2H3D*	*KEAP1*	*MLLT3*	*PAK3*	*PPP2R2A*	*RPS6KA4*	*STAG2*	*WT1*
ASXL2	*CCNE1*	*DDX41*	*FAM123B*	*FRS2*	*HIST3H3*	*KEL*	*MPL*	*PAK7*	*PPP6C*	*RPS6KB1*	*STAT3*	*XIAP*
ATM	*CD274*	*DHX15*	*FAM175A*	*FUBP1*	*HLA-A*	*KIF5B*	*MRE11A*	*PALB2*	*PRDM1*	*RPS6KB2*	*STAT4*	*XPO1*
ATR	*CD276*	*DICER1*	*FAM46C*	*FYN*	*HLA-B*	*TROUSSE*	*MSH2*	*PARK2*	*PREX2*	*RPTOR*	*STAT5A*	*XRCC2*
ATRX	*CD74*	*DIS3*	*FANCA*	*GABRA6*	*HLA-C*	*KLF4*	*MSH3*	*PARP1*	*PRKAR1A*	*RUNX1*	*STAT5B*	*YAP1*
AURKA	*CD79A*	*DNAJB1*	*FANCC*	*GATA1*	*HNF1A*	*KLHL6*	*MSH6*	*PAX3*	*PRKCI*	*RUNX1T1*	*STK11*	*YES1*
AURKB	*CD79B*	*DNMT1*	*FANCD2*	*GATA2*	*HNRNPK*	*KMT2B*	*MST1*	*PAX5*	*PRKDC*	*RYBP*	*STK40*	*ZBTB2*
AXIN1	*CDC73*	*DNMT3A*	*FANCE*	*GATA3*	*HOXB13*	*KMT2C*	*MST1R*	*PAX7*	*PRSS8*	*SDHA*	*SUFU*	*ZBTB7A*
AXIN2	*CDH1*	*DNMT3B*	*FANCF*	*GATA4*	*IGF1*	*KMT2D*	*MTOR*	*PAX8*	*PTCH1*	*SDHAF2*	*SUZ12*	*ZFHX3*
AXL	*CDK12*	*DOT1L*	*FANCG*	*GATA6*	*IGF1R*	*KRAS*	*MUTYH*	*PBRM1*	*PTEN*	*SDHB*	*SYK*	*ZNF217*
B2M	*CDK4*	*E2F3*	*FANCI*	*GEN1*	*IGF2*	*LAMP1*	*MYB*	*PDCD1*	*PTPN11*	*SDHC*	*TAF1*	*ZNF703*
BAP1	*CDK6*	*EED*	*FANCL*	*GID4*	*IKBKE*	*LATS1*	*MYC*	*PDCD1LG2*	*PTPRD*	*SDHD*	*TBX3*	*ZRSR2*
BARD1	*CDK8*	*EGFL7*	*FAS*	*GLI1*	*IKZF1*	*LATS2*	*MYCL1*	*PDGFRA*	*PTPRS*	*SETBP1*	*TCEB1*	
BBC3	*CDKN1A*	*EGFR*	*FAT1*	*GNA11*	*IL10*	*LMO1*	*MYCN*	*PDGFRB*	*PTPRT*	*SETD2*	*TCF3*	
BCL10	*CDKN1B*	*EIF1AX*	*FBXW7*	*GNA13*	*IL7R*	*LRP1B*	*MYD88*	*PDK1*	*QKI*	*SF3B1*	*TCF7L2*	
BCL2	*CDKN2A*	*EIF4A2*	*FGF1*	*GNAQ*	*INHA*	*LYN*	*MYOD1*	*PDPK1*	*RAB35*	*SH2B3*	*TERC*	
BCL2L1	*CDKN2B*	*EIF4E*	*FGF8*	*GNAS*	*HRAS*	*LZTR1*	*NAB2*	*PGR*	*RAC1*	*SH2D1A*	*TERT*	
BCL2L11	*CDKN2C*	*EML4*	*FGF9*	*GPR124*	*HSD3B1*	*MAGI2*	*NBN*	*PHF6*	*RAD21*	*SHQ1*	*TET1*	
BCL2L2	*CEBPA*	*EP300*	*FGF10*	*GPS2*	*HSP90AA1*	*MALT1*	*NCOA3*	*PHOX2B*	*RAD50*	*SLIT2*	*TET2*	
BCL6	*CENPA*	*EPCAM*	*FGF14*	*GREM1*	*ICOSLG*	*MAP2K1*	*NCOR1*	*PIK3C2B*	*RAD51*	*SLX4*	*TFE3*	
BCOR	*CHD2*	*EPHA3*	*FGF19*	*GRIN2A*	*ID3*	*MAP2K2*	*NEGR1*	*PIK3C2G*	*RAD51B*	*SMAD2*	*TFRC*	
BCORL1	*CHD4*	*EPHA5*	*FGF2*	*GRM3*	*IDH1*	*MAP2K4*	*NF1*	*PIK3C3*	*RAD51C*	*SMAD3*	*TGFBR1*	

a. Détection de grands réarrangements (VNC au niveau de l'exon) pour les gènes *BRCA1* et *BRCA2*.
Le contenu grisé est analysé pour la détection des VNC

LISTE PANEL TSO500

Tableau 3 : Contenu d'ARN dans les panels TruSight Oncology 500 et TruSight Oncology 500 High-Throughput

ABL1	*EGFR*	*FGFR2*	*MLL*	*PAX3*
AKT3	*EML4*	*FGFR3*	*MLLT3*	*PAX7*
ALK	*ERBB2*	*FGFR4*	*MSH2*	*PDGFRA*
AR	*ERG*	*FLI1*	*MYC*	*PDGFRB*
AXL	*ESR1*	*FLT1*	*NOTCH1*	*PIK3CA*
BCL2	*ETS1*	*FLT3*	*NOTCH2*	*PPARG*
BRAF	*ETV1*	*JAK2*	*NOTCH3*	*RAF1*
BRCA1	*ETV4*	*KDR*	*NRG1*	*RET*
BRCA2	*ETV5*	*KIF5B*	*NTRK1*	*ROS1*
CDK4	*EWSR1*	*TROUSSE*	*NTRK2*	*RPS6KB1*
CSF1R	*FGFR1*	*MET*	*NTRK3*	*TMPRSS2*

Tous les gènes énumérés sont évalués pour les fusions connues et nouvelles; le contenu en grisé est analysé pour les variants d'épissage

NTRK1, NTRK2, NTRK3 (pan-cancer) | MSI (pan-cancer) | TMB (pan-cancer)

Poumon	Mélanome	Colorectal	Ovaires	Sein	Gastrique	Prostate	SNC
AKT1 *ALK* *ATM* *BRAF* *BRCA1* *BRCA2* *EGFR* *ERBB2* *FGFR1* *FGFR3* *KRAS* *MAP2K1* *MET* *NRAS* *NRG1* *NUTM1* *PIK3CA* *PTEN* *RET* *ROS1* *TP53*	*ALK* *BRAF* *BRCA1* *BRCA2* *EGFR* *ERBB2* *FGFR1* *FGFR4* *HRAS* *KIT* *KRAS* *MAP2K1* *NRAS* *NRG1* *PTEN* *ROS1* *TP53*	*ALK* *BRAF* *BRCA1* *BRCA2* *EGFR* *ERBB2* *FGFR1* *KRAS* *MET* *MLH1* *MSH2* *MSH6* *NRAS* *NRG1* *PIK3CA* *PMS2* *POLE* *PTEN* *RET* *ROS1*	*ALK* *BRAF* *BRCA1* *BRCA2* *EGFR* *ERBB2* *FOXL2* *KRAS* *MET* *NRG1* *PDGFRA* *ROS1* *TP53* HRD	*AKT1* *ALK* *BRAF* *BRCA1* *BRCA2* *ERBB2* *ESR1* *FGFR1* *FGFR2* *NRG1* *PALB2* *PIK3CA* *PTEN* *ROS1* *TP53* HRD	*BRAF* *EGFR* *ERBB2* *FGFR2* *KIT* *KRAS* *MET* *NRG1* *PIK3CA* *PDGFRA* *TP53*	*AR* *ATM* *BARD1* *BRAF* *BRCA1* *BRCA2* *BRIP1* *CDK12* *CHEK1* *CHEK2* *FANCL* *FGFR2* *FGFR3* *NBN* *NRG1* *PALB2* *PPP2R2A* *PTEN* *RAD51B* *RAD51C* *RAD51D* *RAD54L* *RB1* *ROS1* *TP53*	*ATRX* *BRAF* *BRIP1* *EGFR* *H3F3A* *HIST1H3B* *IDH1* *IDH2* *MYCN* *PTCH1* *RELA* *TERT* *TP53*

Figure 3 : Sous-ensemble de biomarqueurs de profilage génomique tumoral pour plusieurs types de cancers — TruSight Oncology 500 et TruSight Oncology 500 High-Throughput comprennent les biomarqueurs des principales recommandations, les biomarqueurs émergents et les biomarqueurs pantumoraux tels que la MSI, NTRK1-3 et la CMT. Analyse du contenu fournie par Pierian et basée sur la base de connaissances v6.10 (1 février 2022).