

## Liste des gènes panel NGS 100

Agilent capture probes – Design version 3326461

Gene	ROIs	Position Hotspots
ABL1	hotspot	E274, T334,M370
AKT1	hotspot	E17
ALK	hotspot	F1174,R1275
APC	full gene	
ASXL1	exon 13	
ASXL2	full gene	
ATM	full gene	
ATRX	exons 8-10,17-31	
BCOR	full gene	
BCORL1	full gene	
BRAF	hotspot	G466,G469,N581,D594,L597,V600,K601,G643
CALR	full gene	
CBL	exons 8,9	
CBLB	exons 2,3,9,19	
CBLC	aa 24-89, exons 4-5,7-8	
CDH1	full gene	
CDKN2A	aa 1-125	
CEBPA	full gene	
CSF1R	exons 5,22	
CSF3R	hotspot	T618
CTNNB1	hotspot	D32-S37,T41,S45,K335,N387
CUX1	full gene	
CXCR4	full gene	
DDR2	exons 5,8,12-15,17	
DHX15	full gene	
DNMT3A	full gene	
EGFR	exons 2-4,6-7,13,15,18-21,25	
ERBB2	exons 8,17,19-21	
ERBB4	exons 1,18,27	
ESR1	full gene	
ETV6	full gene	
EZH2	full gene	
FBXW7	hotspot	R278,R367,G423,R465,R479,R505,S582,R658,S668,R689
FGFR1	hotspot	N577,K687
FGFR2	hotspot	S252,C383,N550
FGFR3	hotspot	R248,S249,G372-Y375,G382,A393,K652,G699
FLT3	exons 3,6,8,11-14,16,20	
FRK	exons 5,6	
GATA1	exons 2,4	
GATA2	full gene	
GNA11	hotspot	Q209
GNAQ	hotspot	Y101,R183,Q209
GNAS	hotspot	R844,Q870

<b>HNF1A</b>	full gene	
<b>HRAS</b>	hotspot	G12-G13,H27,Q61
<b>IDH1</b>	hotspot	R132,R140
<b>IDH2</b>	hotspot	R172
<b>IKZF1</b>	full gene	
<b>IL6ST</b>	exon 6	
<b>JAK1</b>	full gene	
<b>JAK2</b>	hotspot	E543-D544,V617,R683
<b>JAK3</b>	hotspot	M511,A573,R657,V722
<b>KDM6A</b>	full gene	
<b>KDR</b>	hotspot	Q472
<b>KIT</b>	full gene	
<b>KMT2A</b>	aa 619-685 et 743-809, exons 5-8	
<b>KRAS</b>	hotspot	G12-G13,Q22,A59,Q61,K117,A146,R161
<b>MAP2K1</b>	full gene	
<b>MAP2K2</b>	full gene	
<b>MET</b>	hotspot	T1010,Y1253
<b>MGA</b>	full gene	
<b>MLH1</b>	hotspot	I219,V384
<b>MPL</b>	hotspot	S505,W515
<b>MYD88</b>	exons 3-5	
<b>NF1</b>	full gene	
<b>NOTCH1</b>	hotspot	T194,T311,L1574-V1578,L1585,F1592,L1593,R1598,L1600,L1678,D1698,Q2440,P2514
<b>NPM1</b>	hotspot	W288
<b>NRAS</b>	hotspot	G12-G13,Q61
<b>PDGFRA</b>	hotspot	V561,S566-E571,V824,D842
<b>PHF6</b>	full gene	
<b>PIK3CA</b>	exons 2,3,5-10,12,14,19-21	
<b>PRPF8</b>	full gene	
<b>PTEN</b>	full gene	
<b>PTPN11</b>	hotspot	G60-E76,S502-G503
<b>RAD21</b>	full gene	
<b>RAF1</b>	exon 7	
<b>RB1</b>	full gene	
<b>RET</b>	exons 2,7,11,13-16	
<b>RUNX1</b>	full gene	
<b>SETBP1</b>	hotspot	D868-G870
<b>SF3B1</b>	hotspot	E622-R625,K666,K700,G742
<b>SH2B3</b>	full gene	
<b>SMAD4</b>	full gene	
<b>SMARCB1</b>	full gene	
<b>SMC1A</b>	exons 2,11,16,17	
<b>SMC3</b>	exons 10,13,19,23,25,28	
<b>SMO</b>	hotspot	L412,P694
<b>SRC</b>	exon 14	
<b>SRSF2</b>	exon1	

<b>STAG2</b>	full gene	
<b>STAT3</b>	exons 3,6,17,21	
<b>STK11</b>	full gene	
<b>TERT</b>	promoteur	-124, -139,-146
<b>TET2</b>	full gene	
<b>TP53</b>	full gene	
<b>U2AF1</b>	hotspot	S34,R156,Q157
<b>VHL</b>	aa 48-202	
<b>WT1</b>	full gene	
<b>ZBTB7A</b>	full gene	
<b>ZRSR2</b>	full gene	