

Gene	Analysis	Region
<b>ABL1</b>	Hot Spots	Codons 244-493
<b>AKT1</b>	Hot Spots	Codons 17, 32-52
<b>AKT2</b>	Whole Gene	All protein coding regions plus splice sites
<b>AKT3</b>	Whole Gene	All protein coding regions plus splice sites
<b>ALK</b>	Hot Spots	Codons 542, 1152-1278
<b>APC</b>	Whole Gene	All protein coding regions plus splice sites
<b>AR</b>	Whole Gene	All protein coding regions plus splice sites
<b>ARAF</b>	Hot Spots	Codon 214
<b>ARID1A</b>	Whole Gene	All protein coding regions plus splice sites
<b>ASXL1</b>	Hot Spots	Codons 630-643, 1102-1107
<b>ATM</b>	Whole Gene	All protein coding regions plus splice sites
<b>ATRX</b>	Partial Gene	Exons 8-31
<b>AURKA</b>	Whole Gene	All protein coding regions plus splice sites
<b>AXIN1</b>	Whole Gene	All protein coding regions plus splice sites
<b>B2M</b>	Hot Spots	Codons 1-5
<b>BCL2</b>	Hot Spots	Codons 7-20, 57-60, 129-135
<b>BCL6</b>	Hot Spots	Codons 587-615
<b>BCOR</b>	Whole Gene	All protein coding regions plus splice sites
<b>BCORL1</b>	Whole Gene	All protein coding regions plus splice sites
<b>BIRC3</b>	Hot Spots	Codon 123
<b>BRAF</b>	Hot Spots	Codons 464-472, 581-602
<b>BRCA1</b>	Whole Gene	All protein coding regions plus splice sites
<b>BRCA2</b>	Whole Gene	All protein coding regions plus splice sites
<b>BTK</b>	Hot Spots	Codons 1-47, 175-196, 281-298, 327-367, 426-450, 463-522
<b>CALR</b>	Partial Gene	Exon 9
<b>CARD11</b>	Hot Spots	Codons 230-251
<b>CBL</b>	Hot Spots	Codons 371-384, 416-420
<b>CBLB</b>	Partial Gene	Exons 9-10
<b>CBLC</b>	Partial Gene	Exons 9-10
<b>CCND1</b>	Partial Gene	Exon 1, 2
<b>CCND3</b>	Hot Spots	Codons 260-289
<b>CD79A</b>	Hot Spots	Codons 167-214
<b>CD79b</b>	Hot Spots	Codon 196
<b>CDH1</b>	Whole Gene	All protein coding regions plus splice sites
<b>CDK4</b>	Whole Gene	All protein coding regions plus splice sites
<b>CDK6</b>	Whole Gene	All protein coding regions plus splice sites
<b>CDKN2A</b>	Whole Gene	All protein coding regions plus splice sites
<b>CEBPA</b>	Whole Gene	All protein coding regions plus splice sites
<b>CHEK2</b>	Hot Spots	Codons 247, 346, 372-404, 519-536

Gene	Analysis	Region
CREBBP	Whole Gene	All protein coding regions plus splice sites
CRLF2	Whole Gene	All protein coding regions plus splice sites
CSF1R	Hot Spots	Codons 301,969
CSF3R	Partial Gene	Exons 14-17
CTNNB1	Hot Spots	Codons 23-66
CUX1	Whole Gene	All protein coding regions plus splice sites
CXCR4	Whole Gene	All protein coding regions plus splice sites
DDR2	Hot Spots	Codon 768
DDX3X	Hot Spots	Codons 330-341, 410-411
DNMT3A	Whole Gene	All protein coding regions plus splice sites
EGFR	Partial Gene	Exons 18-21
EIF1AX	Whole Gene	All protein coding regions plus splice sites
EP300	Hot Spots	Codons 1625-1639
ERBB2	Hot Spots	Codons 310, 755-769, 774-780
ERBB4	Whole Gene	All protein coding regions plus splice sites
ESR1	Hot Spots	Codons 303, 463, 534-538
ETV6	Whole Gene	All protein coding regions plus splice sites
EZH2	Whole Gene	All protein coding regions plus splice sites
FBXW7	Partial Gene	Exons 7-11 (Codons 297-332, 450-468, 478-525, 576-618)
FGFR1	Hot Spots	Codons 441, 537 656, 664
FGFR2	Hot Spots	Codons 248-253, 370-382, 547-549, 636-659, 664
FGFR3	Hot Spots	Codons 248-250, 370-393, 650-652, 697
FGFR4	Hot Spots	Codons 535-550, 576, 641, 681-689
FLT3	Hot Spots	Codons 569-613 (ITD), 835
FOXO1	Whole Gene	All protein coding regions plus splice sites
GATA1	Hot Spots	Codons 1-30
GATA2	Whole Gene	All protein coding regions plus splice sites
GATA3	Hot Spots	Codons 309-445
GNA11	Hot Spots	Codons 183-209
GNAQ	Hot Spots	Codons 183, 209
GNAS	Partial Gene	Exons 8,9
H3F3A	Hot Spots	Codons 27,34
HNF1A	Whole Gene	All protein coding regions plus splice sites
HRAS	Hot Spots	Codons 12-13, 61, 117
ID3	Hot Spots	Codon 56
IDH1	Hot Spots	Codon 132
IDH2	Hot Spots	Codons 140, 172
IKZF1	Whole Gene	All protein coding regions plus splice sites
IL7R	Hot Spots	Codons 237-245

Gene	Analysis	Region
JAK1	Hot Spots	Codons 652-658
JAK2	Partial Gene	Exons 12-14
JAK3	Hot Spots	Codons 501-511, 572-576, 657
KDM6A	Whole Gene	All protein coding regions plus splice sites
KDR	Whole Gene	All protein coding regions plus splice sites
KIT	Hot Spots	Exons 9, 14, codons 416-422, 541-546, 550-592, 642, 796-850
KMT2A	Partial Gene	Exons 4-8, codons 2462, 3440 (exon 27)
KMT2D	Whole Gene	All protein coding regions plus splice sites
KRAS	Hot Spots	Codons 12-13, 61, 117, 146
MAP2K1	Hot Spots	Codons 56-67, 121-124
MAP2K2	Whole Gene	All protein coding regions plus splice sites
MAP3K14	Hot Spots	Exon 11 (608-657)
MEF2B	Hot Spots	Codons 77-81
MET	Partial Gene	Exons 13-15, 17, 18, 20 and Codons 168, 375 (exon 2)
MLH1	Whole Gene	All protein coding regions plus splice sites
MPL	Hot Spots	Codons 490-522
MYC	Hot Spots	Codons 57-58, 131-138
MYD88	Partial Gene	Exons 3, 4, 5 (Codons 219-220, 265)
NDUFA13	Whole Gene	All protein coding regions plus splice sites
NF1	Whole Gene	All protein coding regions plus splice sites
NF2	Whole Gene	All protein coding regions plus splice sites
NOTCH1	Hot Spots	Codons 1574-1578, 1585-1607, 1674-1680, 2438-2444, 2459-2467, 2492-2503, 2512-2523
NOTCH2	Hot Spots	Codon 2400
NPM1	Hot Spots	Codons 287-292
NRAS	Hot Spots	Codons 12-13, 61, 117, 146
NTRK1	Whole Gene	All protein coding regions plus splice sites
NTRK2	Whole Gene	All protein coding regions plus splice sites
NTRK3	Whole Gene	All protein coding regions plus splice sites
PALB2	Whole Gene	All protein coding regions plus splice sites
PAX5	Hot Spots	Codons 75-80
PDGFRA	Hot Spots	Codons 560-566, 659, 824, 841-849
PHF6	Whole Gene	All protein coding regions plus splice sites
PIK3CA	Hot Spots	Codons 88, 539-549, 1020-1025, 1043-1049
PIK3R1	Hot Spots	Codons 348, 440-463, 564-576
PIM1	Hot Spots	Codons 1-16, 28-56, 68-171, 210-251
PIM2	Hot Spots	Codons 199-232, 270-312
PLCG2	Hot Spots	Codons 161-188, 256-322, 330-355, 496-519, 526-569, 646-676, 686-724, 746-769, 864-908, 961-1005
PRDM1	Hot Spots	Codons 59-62

Gene	Analysis	Region
<b>PRPF40B</b>	Hot Spots	Codon 696
<b>PTCH1</b>	Hot Spots	Codon 688
<b>PTEN</b>	Whole Gene	All protein coding regions plus splice sites
<b>PTPN11</b>	Hot Spots	Codons 60-76, 502-503
<b>RAD21</b>	Whole Gene	All protein coding regions plus splice sites
<b>RAF1</b>	Hot Spots	Codons 257-259
<b>RB1</b>	Whole Gene	All protein coding regions plus splice sites
<b>RET</b>	Whole Gene	All protein coding regions plus splice sites
<b>RHOA</b>	Partial Gene	Exon 1
<b>ROS1</b>	Hot Spots	Codon 2032
<b>RUNX1</b>	Whole Gene	All protein coding regions plus splice sites
<b>SETBP1</b>	Hot Spots	Codons 852-892
<b>SETD2</b>	Whole Gene	All protein coding regions plus splice sites
<b>SF3A1</b>	Hot Spots	Codon 478
<b>SF3B1</b>	Partial Gene	Exons 13-16
<b>SH2B3</b>	Partial Gene	Exons 1-3
<b>SMAD4</b>	Whole Gene	All protein coding regions plus splice sites
<b>SMARCB1</b>	Hot Spots	Codons 40-53, 158, 201, 368-377
<b>SMC1A</b>	Whole Gene	All protein coding regions plus splice sites
<b>SMC3</b>	Whole Gene	All protein coding regions plus splice sites
<b>SMO</b>	Hot Spots	Codons 199, 324, 473, 533-535, 640, 652
<b>SRC</b>	Hot Spots	Codons 121, 531, 141, 303, 341, 506, 531
<b>SRSF2</b>	Hot Spots	Codons 95-107
<b>STAG2</b>	Whole Gene	All protein coding regions plus splice sites
<b>STAT3</b>	Hot Spots	Codons 640-661
<b>STAT5A</b>	Whole Gene	All protein coding regions plus splice sites
<b>STK11</b>	Hot Spots	Codons 36-37, 60-66, 170-171, 194-199, 281-282, 354
<b>SUZ12</b>	Whole Gene	All protein coding regions plus splice sites
<b>SYK</b>	Hot Spots	Codons 67-116, 306-372, 395-407, 426-463, 534-574
<b>TERT</b>	Hot Spots	Promoter -228, -250
<b>TET2</b>	Whole Gene	All protein coding regions plus splice sites
<b>TG</b>	Whole Gene	All protein coding regions plus splice sites
<b>TNFAIP3</b>	Whole Gene	All protein coding regions plus splice sites
<b>TP53</b>	Whole Gene	All protein coding regions plus splice sites
<b>TRAF3</b>	Hot Spots	Codon 118
<b>TSC1</b>	Whole Gene	All protein coding regions plus splice sites
<b>TSC2</b>	Whole Gene	All protein coding regions plus splice sites
<b>TSHR</b>	Whole Gene	All protein coding regions plus splice sites
<b>U2AF1</b>	Hot Spots	Codons 34-35, 156-160

<b>Gene</b>	<b>Analysis</b>	<b>Region</b>
<b>U2AF2</b>	Hot Spots	Codons 143, 190
<b>VHL</b>	Whole Gene	All protein coding regions plus splice sites
<b>WT1</b>	Hot Spots	Codons 298-314, 390-397
<b>XPO1</b>	Hot Spots	Codon 571
<b>ZRSR2</b>	Whole Gene	All protein coding regions plus splice sites