

## LISTA GENI ANALIZZATI E PANNELLI CORRISPONDENTI

Gene	Pannello	Tipo:	Alterazioni identificate
ABL1	Ion AmpliSeq™ Cancer Hotspot Panel v2 Tumor Mutation Load Assay	DNA	SNV/INDEL
		DNA	SNV/INDEL
ABL2	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
ACVR2A	Oncomine™ Tumor Mutation Load Assay Archer FusionPlex Custom panel	DNA	SNV/INDEL
		RNA	Fusioni geniche
ADAMTS20	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
AFF1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
AFF3	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
AKAP9	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
AKT1	Ion AmpliSeq™ Colon and Lung Cancer Research Panel Ion AmpliSeq™ Cancer Hotspot Panel v2 Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay Oncomine™ Colon cfDNA Assay	DNA	SNV/INDEL
		DNA	SNV/INDEL
		DNA	SNV/INDEL, CNV
		DNA	SNV/INDEL
		DNA	SNV/INDEL
AKT2	Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL, CNV
		DNA	SNV/INDEL
AKT3	Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL, CNV
		DNA	SNV/INDEL
ALK	Ion AmpliSeq™ Colon and Lung Cancer Research Panel Ion AmpliSeq™ Cancer Hotspot Panel v2 Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay Oncomine™ Lung cfDNA Assay Archer FusionPlex Custom panel Archer FusionPlex Lung	DNA	SNV/INDEL
		DNA	SNV/INDEL
		DNA	SNV/INDEL, CNV
		DNA	SNV/INDEL
		DNA	SNV/INDEL
		RNA	Fusioni geniche
		RNA	Fusioni geniche
APC	Ion AmpliSeq™ Cancer Hotspot Panel v2 Oncomine™ Tumor Mutation Load Assay Oncomine™ Colon cfDNA Assay	DNA	SNV/INDEL
		DNA	SNV/INDEL
		DNA	SNV/INDEL
AR	Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL, CNV,
		DNA	SNV/INDEL
ARAF	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
ARID1A	Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
		DNA	SNV/INDEL
ARID2	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
ARNT	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
ASXL1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
ATF1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
ATM	Ion AmpliSeq™ Cancer Hotspot Panel v2 Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
		DNA	SNV/INDEL
		DNA	SNV/INDEL
ATR	Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
		DNA	SNV/INDEL
ATRX	Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
		DNA	SNV/INDEL
AURKA	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
AURKB	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
AURKC	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
AXL	Oncomine™ Comprehensive Assay v3 Tumor Mutation Load Assay	DNA	SNV/INDEL, CNV
		DNA	SNV/INDEL
BAI3	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
BAP1	Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
		DNA	SNV/INDEL
BCL10	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
BCL11A	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
BCL11B	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
BCL2	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
BCL2L1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
BCL2L2	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
BCL3	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
BCL6	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
BCL9	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
BCOR	Archer FusionPlex Custom panel	RNA	Fusioni geniche
BCR	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
BIRC2	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL

SNV: single nucleotide variant (mutazioni a singolo nucleotide), INDEL: inserzioni e delezioni di corte regioni nucleotidiche, CNV: copy number variation (amplificazioni e copy number gain)

Gene	Pannello	Tipo:	Alterazioni identificate
BIRC3	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
BIRC5	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
BLM	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
BLNK	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
BMPR1A	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
BRAF	Ion AmpliSeq™ Colon and Lung Cancer Research Panel Ion AmpliSeq™ Cancer Hotspot Panel v2 Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay Oncomine™ Lung cfDNA Assay Oncomine™ Colon cfDNA Assay Archer FusionPlex Custom panel Archer FusionPlex Lung	DNA DNA DNA DNA DNA DNA RNA RNA	SNV/INDEL SNV/INDEL SNV/INDEL, CNV SNV/INDEL SNV/INDEL SNV/INDEL Fusioni geniche Fusioni geniche
BRCA1	Oncomine™ BRCA Research Assay Oncomine™ Comprehensive Assay v3	DNA DNA	SNV/INDEL SNV/INDEL, CNV
BRCA2	Oncomine™ BRCA Research Assay Oncomine™ Comprehensive Assay v3	DNA DNA	SNV/INDEL SNV/INDEL, CNV
BRD3	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
BTK	Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay	DNA DNA	SNV/INDEL SNV/INDEL
BUB1B	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
CAMTA1	Archer FusionPlex Custom panel	RNA	Fusioni geniche
CARD11	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
CASC5	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
CBL	Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay	DNA DNA	SNV/INDEL SNV/INDEL
CCNB3	Archer FusionPlex Custom panel	RNA	Fusioni geniche
CCND1	Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay	DNA DNA	SNV/INDEL, CNV SNV/INDEL
CCND2	Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay	DNA DNA	CNV SNV/INDEL
CCND3	Oncomine™ Comprehensive Assay v3	DNA	CNV
CCNE1	Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay	DNA DNA	CNV SNV/INDEL
CD79A	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
CD79B	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
CDC73	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
CDH1	Ion AmpliSeq™ Cancer Hotspot Panel v2 Oncomine™ Tumor Mutation Load Assay	DNA DNA	SNV/INDEL SNV/INDEL
CDH11	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
CDH2	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
CDH20	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
CDH5	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
CDK12	Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay	DNA DNA	SNV/INDEL SNV/INDEL
CDK2	Oncomine™ Comprehensive Assay v3	DNA	CNV
CDK4	Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay	DNA DNA	SNV/INDEL, CNV SNV/INDEL
CDK6	Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay	DNA DNA	SNV/INDEL, CNV SNV/INDEL
CDK8	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
CDKN1B	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
CDKN2A	Ion AmpliSeq™ Cancer Hotspot Panel v2 Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay	DNA DNA DNA	SNV/INDEL SNV/INDEL, CNV SNV/INDEL
CDKN2B	Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay	DNA DNA	SNV/INDEL SNV/INDEL
CDKN2C	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
CEBPA	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
CHEK1	Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay	DNA DNA	SNV/INDEL SNV/INDEL
CHEK2	Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay	DNA DNA	SNV/INDEL SNV/INDEL
CIC	Oncomine™ Tumor Mutation Load Assay Archer FusionPlex Custom panel	DNA RNA	SNV/INDEL Fusioni geniche
CKS1B	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
CMPK1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
COL1A1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
CRBN	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
CREB1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL

SNV: single nucleotide variant (mutazioni a singolo nucleotide), INDEL: inserzioni e delezioni di corte regioni nucleotidiche, CNV: copy number variation (amplificazioni e copy number gain)

Gene	Pannello	Tipo:	Alterazioni identificate
CREBBP	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
CRKL	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
CRTC1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
CSF1	Archer FusionPlex Custom panel	RNA	Fusioni geniche
CSF1R	Ion AmpliSeq™ Cancer Hotspot Panel v2	DNA	SNV/INDEL
	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
CSMD3	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
CTNNA1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
CTNNB1	Ion AmpliSeq™ Colon and Lung Cancer Research Panel	DNA	SNV/INDEL
	Ion AmpliSeq™ Cancer Hotspot Panel v2	DNA	SNV/INDEL
	Locarno custom panel	DNA	SNV/INDEL
	Endometrial Custom Panel	DNA	SNV/INDEL
	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
	Oncomine™ Colon cfDNA Assay	DNA	SNV/INDEL
CYLD	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
CYP2C19	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
CYP2D6	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
DAXX	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
DCC	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
DDB2	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
DDIT3	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
DDR2	Ion AmpliSeq™ Colon and Lung Cancer Research Panel	DNA	SNV/INDEL
	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
DEK	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
DICER1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
DNMT3A	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
DPYD	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
DST	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
EGFR	Ion AmpliSeq™ Colon and Lung Cancer Research Panel	DNA	SNV/INDEL
	Ion AmpliSeq™ Cancer Hotspot Panel v2	DNA	SNV/INDEL
	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL, CNV
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
	Oncomine™ Lung cfDNA Assay	DNA	SNV/INDEL
	Oncomine™ Colon cfDNA Assay	DNA	SNV/INDEL
	Archer FusionPlex Custom panel	RNA	Fusioni geniche
Archer FusionPlex Lung	RNA	Fusioni geniche	
EML4	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
EP300	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
EP400	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
EPC1	Archer FusionPlex Custom panel	RNA	Fusioni geniche
EPHA3	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
EPHA7	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
EPHB1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
EPHB4	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
EPHB6	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
ERBB2	Ion AmpliSeq™ Colon and Lung Cancer Research Panel	DNA	SNV/INDEL
	Ion AmpliSeq™ Cancer Hotspot Panel v2	DNA	SNV/INDEL
	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL, CNV
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
	Oncomine™ Lung cfDNA Assay	DNA	SNV/INDEL
	Oncomine™ Colon cfDNA Assay	DNA	SNV/INDEL
ERBB3	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
ERBB4	Ion AmpliSeq™ Colon and Lung Cancer Research Panel	DNA	SNV/INDEL
	Ion AmpliSeq™ Cancer Hotspot Panel v2	DNA	SNV/INDEL
	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL, CNV
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
ERCC1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
ERCC2	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
ERCC3	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
ERCC4	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
ERCC5	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
ERG	Oncomine™ Comprehensive Assay v3	RNA	Fusioni
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
	Archer FusionPlex Custom panel	RNA	Fusioni geniche
ESR1	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL, CNV
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL

SNV: single nucleotide variant (mutazioni a singolo nucleotide), INDEL: inserzioni e delezioni di corte regioni nucleotidiche, CNV: copy number variation (amplificazioni e copy number gain)



Gene	Pannello	Tipo:	Alterazioni identificate
GATA1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
GATA2	Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay	DNA DNA	SNV/INDEL SNV/INDEL
GATA3	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
GDNF	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
GLI1	Archer FusionPlex Custom panel	RNA	Fusioni geniche
GNA11	Ion AmpliSeq™ Cancer Hotspot Panel v2 Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay	DNA DNA DNA	SNV/INDEL SNV/INDEL SNV/INDEL
GNAQ	Ion AmpliSeq™ Cancer Hotspot Panel v2 Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay	DNA DNA DNA	SNV/INDEL SNV/INDEL SNV/INDEL
GNAS	Ion AmpliSeq™ Cancer Hotspot Panel v2 Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay Oncomine™ Colon cfDNA Assay	DNA DNA DNA DNA	SNV/INDEL SNV/INDEL SNV/INDEL SNV/INDEL
GPR124	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
GRM1	Archer FusionPlex Custom panel	RNA	Fusioni geniche
GRM8	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
GUCY1A2	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
H3F3A	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
HCAR1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
HIF1A	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
HIST1H3B	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
HLF	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
HMGA2	Archer FusionPlex Custom panel	RNA	Fusioni geniche
HNF1A	Ion AmpliSeq™ Cancer Hotspot Panel v2 Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay	DNA DNA DNA	SNV/INDEL SNV/INDEL SNV/INDEL
HOOK3	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
HRAS	Ion AmpliSeq™ Cancer Hotspot Panel v2 Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay	DNA DNA DNA	SNV/INDEL SNV/INDEL SNV/INDEL
HSP90AA1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
HSP90AB1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
ICK	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
IDH1	Ion AmpliSeq™ Cancer Hotspot Panel v2 Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay	DNA DNA DNA	SNV/INDEL SNV/INDEL SNV/INDEL
IDH2	Ion AmpliSeq™ Cancer Hotspot Panel v2 Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay	DNA DNA DNA	SNV/INDEL SNV/INDEL SNV/INDEL
IGF1R	Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay Archer FusionPlex Custom panel	DNA DNA RNA	CNV SNV/INDEL Fusioni geniche
IGF2	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
IGF2R	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
IKBKB	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
IKBKE	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
IKZF1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
IL2	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
IL21R	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
IL6ST	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
IL7R	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
ING4	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
IRF4	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
IRS2	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
ITGA10	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
ITGA9	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
ITGB2	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
ITGB3	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
JAK1	Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay	DNA DNA	SNV/INDEL SNV/INDEL
JAK2	Ion AmpliSeq™ Cancer Hotspot Panel v2 Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay	DNA DNA DNA	SNV/INDEL SNV/INDEL, CNV SNV/INDEL
JAK3	Ion AmpliSeq™ Cancer Hotspot Panel v2 Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay	DNA DNA DNA	SNV/INDEL SNV/INDEL SNV/INDEL

SNV: single nucleotide variant (mutazioni a singolo nucleotide), INDEL: inserzioni e delezioni di corte regioni nucleotidiche, CNV: copy number variation (amplificazioni e copy number gain)

Gene	Pannello	Tipo:	Alterazioni identificate
JAK3	Ion AmpliSeq™ Cancer Hotspot Panel v2	DNA	SNV/INDEL
	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
JAZF1	Archer FusionPlex Custom panel	RNA	Fusioni geniche
JUN	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
KAT6A	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
KAT6B	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
KDM5C	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
KDM6A	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
KDR	Ion AmpliSeq™ Cancer Hotspot Panel v2	DNA	SNV/INDEL
	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
KEAP1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
KIT	Ion AmpliSeq™ Cancer Hotspot Panel v2	DNA	SNV/INDEL
	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL, CNV
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
KLF6	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
KNSTRN	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
KRAS	Ion AmpliSeq™ Colon and Lung Cancer Research Panel	DNA	SNV/INDEL
	Ion AmpliSeq™ Cancer Hotspot Panel v2	DNA	SNV/INDEL
	Endometrial Custom Panel	DNA	SNV/INDEL
	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL, CNV
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
	Oncomine™ Lung cfDNA Assay	DNA	SNV/INDEL
	Oncomine™ Colon cfDNA Assay	DNA	SNV/INDEL
Archer FusionPlex Lung	RNA	Fusioni geniche	
LAMP1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
LCK	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
LIFR	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
LPHN3	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
LPP	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
LRP1B	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
LTF	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
LTK	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
MAF	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
MAFB	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
MAGEA1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
MAGI1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
MAGOH	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
MALT1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
MAML2	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
	Archer FusionPlex Custom panel	RNA	Fusioni geniche
MAP2K1 (MEK1)	Ion AmpliSeq™ Colon and Lung Cancer Research Panel	DNA	SNV/INDEL
	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
	Oncomine™ Lung cfDNA Assay	DNA	SNV/INDEL
	Oncomine™ Colon cfDNA Assay	DNA	SNV/INDEL
MAP2K2	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
MAP2K4	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
MAP3K7	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
MAPK1	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
MAPK8	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
MARK1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
MARK4	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
MAX	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
MBD1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
MCL1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
MDM2	Oncomine™ Comprehensive Assay v3	DNA	CNV
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
MDM4	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL, CNV
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
MEAF6	Archer FusionPlex Custom panel	RNA	Fusioni
MED12	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
MEN1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
MET	Ion AmpliSeq™ Colon and Lung Cancer Research Panel	DNA	SNV/INDEL
	Ion AmpliSeq™ Cancer Hotspot Panel v2	DNA	SNV/INDEL
	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL, CNV
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL

SNV: single nucleotide variant (mutazioni a singolo nucleotide), INDEL: inserzioni e delezioni di corte regioni nucleotidiche, CNV: copy number variation (amplificazioni e copy number gain)

Gene	Pannello	Tipo:	Alterazioni identificate
MET	Oncomine™ Lung cfDNA Assay	DNA	SNV/INDEL
	Archer FusionPlex Custom panel	RNA	Fusioni geniche
	Archer FusionPlex Lung	RNA	Fusioni geniche
MGEA5	Archer FusionPlex Custom panel	RNA	Fusioni geniche
MITF	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
MKL2	Archer FusionPlex Custom panel	RNA	Fusioni geniche
MLH1	Ion AmpliSeq™ Cancer Hotspot Panel v2	DNA	SNV/INDEL
	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
MLL	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
MLL2	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
MLL3	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
MLLT10	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
MMP2	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
MN1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
MPL	Ion AmpliSeq™ Cancer Hotspot Panel v2	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
MRE11A	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
MSANTD3	Archer FusionPlex Custom panel	RNA	Fusioni geniche
MSH2	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
MSH6	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
MTOR	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
MTR	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
MTRR	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
MUC1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
MUTYH	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
MYB	Archer FusionPlex Custom panel	RNA	Fusioni geniche
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
MYBL1	Archer FusionPlex Custom panel	RNA	Fusioni geniche
MYC	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL, CNV
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
MYCL	Oncomine™ Comprehensive Assay v3	DNA	CNV
MYCL1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
MYCN	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL, CNV
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
MYD88	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
MYH11	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
MYH9	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
NBN	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
NCOA1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
NCOA2	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
	Archer FusionPlex Custom panel	RNA	Fusioni geniche
NCOA4	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
NF1	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL, CNV
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
NF2	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
NFATC2	Archer FusionPlex Custom panel	RNA	Fusioni geniche
NFE2L2	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
NFKB1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
NFKB2	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
NIN	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
NKX2-1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
NLRP1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
NOTCH1	Ion AmpliSeq™ Colon and Lung Cancer Research Panel	DNA	SNV/INDEL
	Ion AmpliSeq™ Cancer Hotspot Panel v2	DNA	SNV/INDEL
	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL, CNV
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
	Archer FusionPlex Custom panel	RNA	Fusioni geniche
NOTCH2	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
NOTCH3	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
NOTCH4	Oncomine™ Tumor Mutation Load Assay Oncomine™	DNA	SNV/INDEL

SNV: single nucleotide variant (mutazioni a singolo nucleotide), INDEL: inserzioni e delezioni di corte regioni nucleotidiche, CNV: copy number variation (amplificazioni e copy number gain)

Gene	Pannello	Tipo:	Alterazioni identificate
NPM1	Ion AmpliSeq™ Cancer Hotspot Panel v2	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
NRAS	Ion AmpliSeq™ Colon and Lung Cancer Research Panel	DNA	SNV/INDEL
	Ion AmpliSeq™ Cancer Hotspot Panel v2	DNA	SNV/INDEL
	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
	Oncomine™ Lung cfDNA Assay	DNA	SNV/INDEL
	Oncomine™ Colon cfDNA Assay	DNA	SNV/INDEL
NRG1	Archer FusionPlex Custom panel	RNA	Fusioni geniche
	Archer FusionPlex Lung	RNA	Fusioni geniche
NSD1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
NTRK1	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL, CNV
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
	Archer FusionPlex Custom panel	RNA	Fusioni
	Archer FusionPlex Lung	RNA	Fusioni
NTRK2	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL, CNV
	Archer FusionPlex Custom panel	RNA	Fusioni geniche
	Archer FusionPlex Lung	RNA	Fusioni geniche
NTRK3	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL, CNV,
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
	Archer FusionPlex Custom panel	RNA	Fusioni geniche
	Archer FusionPlex Lung	RNA	Fusioni geniche
NUMA1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
NUP214	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
NUP98	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
NUTM1	Archer FusionPlex Custom panel	RNA	Fusioni geniche
PAK3	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
PALB2	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
PARP1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
PAX3	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
PAX5	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
	Archer FusionPlex Custom panel	RNA	Fusioni geniche
PAX7	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
PAX8	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
PBRM1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
PBX1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
PDE4DIP	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
PDGFB	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
PDGFRA	Ion AmpliSeq™ Cancer Hotspot Panel v2	DNA	SNV/INDEL
	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL, CNV
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
PDGFRB	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL, CNV
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
	Archer FusionPlex Custom panel	RNA	Fusioni
PER1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
PGAP3	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
PHF1	Archer FusionPlex Custom panel	RNA	Fusioni
PHOX2B	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
PIK3C2B	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
PIK3CA	Ion AmpliSeq™ Colon and Lung Cancer Research Panel	DNA	SNV/INDEL
	Ion AmpliSeq™ Cancer Hotspot Panel v2	DNA	SNV/INDEL
	Locarno custom panel	DNA	SNV/INDEL
	Endometrial Custom Panel	DNA	SNV/INDEL
	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL, CNV
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
	Oncomine™ Lung cfDNA Assay	DNA	SNV/INDEL
	Oncomine™ Colon cfDNA Assay	DNA	SNV/INDEL
	Archer FusionPlex Custom panel	RNA	Fusioni geniche
PIK3CB	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL, CNV
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
PIK3CD	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
PIK3CG	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
PIK3R1	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
PIK3R2	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
PIM1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
PKHD1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
PLAG1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
	Archer FusionPlex Custom panel	RNA	Fusioni
PLCG1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
PLEKHG5	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL

SNV: single nucleotide variant (mutazioni a singolo nucleotide), INDEL: inserzioni e delezioni di corte regioni nucleotidiche, CNV: copy number variation



(amplificazioni e copy number gain)			
Gene	Pannello	Tipo:	Alterazioni identificate
PML	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
PMS1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
PMS2	Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay	DNA DNA	SNV/INDEL SNV/INDEL
POLE	Endometrial Custom Panel Oncomine™ Comprehensive Assay v3	DNA DNA	SNV/INDEL SNV/INDEL
POT1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
POU5F1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
PPARG	Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay Archer FusionPlex Custom panel	DNA DNA RNA	SNV/INDEL, CNV SNV/INDEL Fusioni geniche
PPP2R1A	Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay	DNA DNA	SNV/INDEL SNV/INDEL
PRDM1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
PRKAR1A	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
PRKD1	Archer FusionPlex Custom panel	RNA	Fusioni geniche
PRKDC	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
PSIP1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
PTCH1	Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay	DNA DNA	SNV/INDEL SNV/INDEL
PTEN	Ion AmpliSeq™ Colon and Lung Cancer Research Panel Ion AmpliSeq™ Cancer Hotspot Panel v2 Endometrial Custom Panel Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay	DNA DNA DNA DNA DNA	SNV/INDEL SNV/INDEL SNV/INDEL SNV/INDEL, CNV SNV/INDEL
PTGS2	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
PTPN11	Ion AmpliSeq™ Cancer Hotspot Panel v2 Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay	DNA DNA DNA	SNV/INDEL SNV/INDEL SNV/INDEL
PTPRD	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
PTPRT	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
RAC1	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
RAD50	Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay	DNA DNA	SNV/INDEL SNV/INDEL
RAD51	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
RAD51B	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
RAD51C	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
RAD51D	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
RAF1	Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay Archer FusionPlex Custom panel	DNA DNA RNA	SNV/INDEL, CNV SNV/INDEL Fusioni geniche
RALGDS	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
RARA	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
RB1	Ion AmpliSeq™ Cancer Hotspot Panel v2 Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay	DNA DNA DNA	SNV/INDEL SNV/INDEL, CNV SNV/INDEL
RECQL4	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
REL	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
RELA	Oncomine™ Comprehensive Assay v3	RNA	Fusioni
RET	Ion AmpliSeq™ Cancer Hotspot Panel v2 Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay Archer FusionPlex Custom panel Archer FusionPlex Lung	DNA DNA DNA RNA RNA	SNV/INDEL SNV/INDEL, CNV SNV/INDEL Fusioni geniche Fusioni geniche
RHEB	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
RHOA	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
RHOH	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
RICTOR	Oncomine™ Comprehensive Assay v3	DNA	CNV
RNASEL	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
RNF2	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
RNF213	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
RNF43	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
ROS1	Oncomine™ Comprehensive Assay v3 Oncomine™ Tumor Mutation Load Assay Oncomine™ Lung cfDNA Assay Archer FusionPlex Custom panel Archer FusionPlex Lung	DNA DNA DNA RNA RNA	SNV/INDEL, CNV SNV/INDEL SNV/INDEL Fusioni geniche Fusioni geniche

SNV: single nucleotide variant (mutazioni a singolo nucleotide), INDEL: inserzioni e delezioni di corte regioni nucleotidiche, CNV: copy number variation (amplificazioni e copy number gain)

Gene	Pannello	Tipo:	Alterazioni identificate
RPS6KA2	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
RRM1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
RUNX1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
RUNX1T1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
SAMD9	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
SBDS	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
SDHA	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
SDHB	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
SDHC	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
SDHD	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
SEPT9	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
SETD2	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
SF3B1	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
SGK1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
SH2D1A	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
SLX4	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
SMAD2	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
SMAD4	Ion AmpliSeq™ Colon and Lung Cancer Research Panel	DNA	SNV/INDEL
	Ion AmpliSeq™ Cancer Hotspot Panel v2	DNA	SNV/INDEL
	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
	Oncomine™ Colon cfDNA Assay	DNA	SNV/INDEL
SMARCA4	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
SMARCB1	Ion AmpliSeq™ Cancer Hotspot Panel v2	DNA	SNV/INDEL
	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
SMO	Ion AmpliSeq™ Cancer Hotspot Panel v2	DNA	SNV/INDEL
	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
SMUG1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
SOCS1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
SOX11	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
SOX2	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
SPOP	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
SRC	Ion AmpliSeq™ Cancer Hotspot Panel v2	DNA	SNV/INDEL
	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
SRF	Archer FusionPlex Custom panel	RNA	Fusioni geniche
SS18	Archer FusionPlex Custom panel	RNA	Fusioni geniche
SSX1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
STAT3	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
STAT6	Archer FusionPlex Custom panel	RNA	Fusioni geniche
STK11	Ion AmpliSeq™ Colon and Lung Cancer Research Panel	DNA	SNV/INDEL
	Ion AmpliSeq™ Cancer Hotspot Panel v2	DNA	SNV/INDEL
	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
STK36	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
SUFU	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
SYK	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
SYNE1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
TAF1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
TAF15	Archer FusionPlex Custom panel	RNA	Fusioni geniche
TAF1L	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
TAL1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
TBX22	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
TCF12	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
	Archer FusionPlex Custom panel	RNA	Fusioni geniche
TCF3	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
TCF7L1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
TCF7L2	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
TCL1A	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
TERT	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL, CNV
TET1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
TET2	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
TFE3	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
	Archer FusionPlex Custom panel	RNA	Fusioni geniche

SNV: single nucleotide variant (mutazioni a singolo nucleotide), INDEL: inserzioni e delezioni di corte regioni nucleotidiche, CNV: copy number variation (amplificazioni e copy number gain)

Gene	Pannello	Tipo:	Alterazioni identificate
TFE3	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
	Archer FusionPlex Custom panel	RNA	Fusioni geniche
TFG	Archer FusionPlex Custom panel	RNA	Fusioni geniche
TGFBR2	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
TGM7	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
THBS1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
TIMP3	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
TLR4	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
TLX1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
TMPRSS2	Archer FusionPlex Custom panel	RNA	Fusioni geniche
TNFAIP3	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
TNFRSF14	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
TNK2	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
TOP1	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
TP53	Ion AmpliSeq™ Colon and Lung Cancer Research Panel	DNA	SNV/INDEL
	Ion AmpliSeq™ Cancer Hotspot Panel v2	DNA	SNV/INDEL
	Endometrial Custom Panel	DNA	SNV/INDEL
	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
	Oncomine™ Lung cfDNA Assay	DNA	SNV/INDEL
	Oncomine™ Colon cfDNA Assay	DNA	SNV/INDEL
TPR	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
TRIM24	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
TRIM33	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
TRIP11	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
TRRAP	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
TSC1	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
TSC2	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
TSHR	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
U2AF1	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
UBR5	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
UGT1A1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
USP6	Archer FusionPlex Custom panel	RNA	Fusioni geniche
USP9X	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
VHL	Ion AmpliSeq™ Cancer Hotspot Panel v2	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
WAS	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
WHSC1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
WRN	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
WT1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
XPA	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
XPC	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
XPO1	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
XRCC2	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
YWHAE	Archer FusionPlex Custom panel	RNA	Fusioni geniche
ZNF384	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
ZNF521	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL

SNV: single nucleotide variant (mutazioni a singolo nucleotide), INDEL: inserzioni e delezioni di corte regioni nucleotidiche, CNV: copy number variation (amplificazioni e copy number gain)