Istituto di Diagnostica Integrata della Svizzera Italiana IDISI
Clinica di Patologia
Servizio di Patologia e Genetica Molecolare

Lista geni analizzati e pannelli NGS corrispondenti

Gene	*Pannello*	*Tipo*:	*Alterazioni identificate*
ABL1	*Ion AmpliSeq™ Cancer Hotspot Panel v2*	DNA	SNV/INDEL
	Tumor Mutation Load Assay	DNA	SNV/INDEL
ABL2	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
ACTB	*Lymphoma Custom Panel*	DNA	SNV/INDEL
ACVR2A	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
	Archer FusionPlex Custom panel	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™ Lung Cancer Panel v2*	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™ Colon cfDNA Assay	DNA	SNV/INDEL
AKT2	*Oncomine™ Comprehensive Assay v3*	DNA	SNV/INDEL, CNV
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
AKT3	*Oncomine™ Comprehensive Assay v3*	DNA	SNV/INDEL, CNV
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
ALK	*Ion AmpliSeq™ Lung Cancer Panel v2*	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
	Archer FusionPlex Custom panel	RNA	Fusioni geniche
	Archer FusionPlex Lung	RNA	Fusioni geniche
APC	*Ion AmpliSeq™ Cancer Hotspot Panel v2*	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
	Oncomine™ Colon cfDNA Assay	DNA	SNV/INDEL
AR	*Oncomine™ Comprehensive Assay v3*	DNA	SNV/INDEL, CNV,
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
ARAF	*Oncomine™ Comprehensive Assay v3*	DNA	SNV/INDEL
ARID1A	*Oncomine™ Comprehensive Assay v3*	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
	Lymphoma Custom Panel	DNA	SNV/INDEL
ARID2	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
ARID5B	*Lymphoma Custom Panel*	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*	DNA	SNV/INDEL
	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
	Lymphoma Custom Panel	DNA	SNV/INDEL
ATR	*Oncomine™ Comprehensive Assay v3*	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
ATRX	*Oncomine™ Comprehensive Assay v3*	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	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*	DNA	SNV/INDEL, CNV
	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*
B2M	*Lymphoma Custom Panel*	DNA	SNV/INDEL
BAI3	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
BAP1	*Oncomine™ Comprehensive Assay v3*	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
BCL10	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
BCL11A	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
	Lymphoma Custom Panel	DNA	SNV/INDEL
BCL11B	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
BCL10	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
	Lymphoma Custom Panel	DNA	SNV/INDEL
BCL2	*Lymphoma Custom Panel*	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
	Lymphoma Custom Panel	DNA	SNV/INDEL
BCL7A	*Lymphoma Custom Panel*	DNA	SNV/INDEL
BCL9	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
BCOR	*Archer FusionPlex Custom panel*	RNA	Fusioni geniche
	Lymphoma Custom Panel	DNA	SNV/INDEL
BCR	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
BIRC2	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
BIRC3	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
	Lymphoma Custom Panel	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™ Lung Cancer Panel v2*	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
	Lymphoma Custom Panel	DNA	SNV/INDEL
BRCA1	*Oncomine™ BRCA Research Assay*	DNA	SNV/INDEL
	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL, CNV
BRCA2	*Oncomine™ BRCA Research Assay*	DNA	SNV/INDEL
	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL, CNV
BRD3	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
BTG1	*Lymphoma Custom Panel*	DNA	SNV/INDEL
BTG2	*Lymphoma Custom Panel*	DNA	SNV/INDEL
BTK	*Oncomine™ Comprehensive Assay v3*	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
	Lymphoma Custom Panel	DNA	SNV/INDEL
BUB1B	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
CAMTA1	*Archer FusionPlex Custom panel*	RNA	Fusioni geniche
CALR	*Lymphoma Custom Panel*	DNA	SNV/INDEL
CARD11	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
	Lymphoma Custom Panel	DNA	SNV/INDEL
CASC5	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
CBL	*Oncomine™ Comprehensive Assay v3*	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
CCNB3	*Archer FusionPlex Custom panel*	RNA	Fusioni geniche
CCND1	*Oncomine™ Comprehensive Assay v3*	DNA	SNV/INDEL, CNV
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
	Lymphoma Custom Panel	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*
CCND2	*Oncomine™ Comprehensive Assay v3* *Oncomine™ Tumor Mutation Load Assay*	DNA DNA	CNV SNV/INDEL
CCND3	*Oncomine™ Comprehensive Assay v3* *Lymphoma Custom Panel*	DNA DNA	CNV SNV/INDEL
CCNE1	*Oncomine™ Comprehensive Assay v3* *Oncomine™ Tumor Mutation Load Assay*	DNA DNA	CNV SNV/INDEL
CCR4	*Lymphoma Custom Panel*	DNA	SNV/INDEL
CD19	*Lymphoma Custom Panel*	DNA	SNV/INDEL
CD274	*Lymphoma Custom Panel*	DNA	SNV/INDEL
CD28	*Lymphoma Custom Panel*	DNA	SNV/INDEL
CD58	*Lymphoma Custom Panel*	DNA	SNV/INDEL
CD70	*Lymphoma Custom Panel*	DNA	SNV/INDEL
CD79A	*Oncomine™ Tumor Mutation Load Assay* *Lymphoma Custom Panel*	DNA DNA	SNV/INDEL SNV/INDEL
CD79B	*Oncomine™ Tumor Mutation Load Assay* *Lymphoma Custom Panel*	DNA DNA	SNV/INDEL SNV/INDEL
CD83	*Lymphoma Custom Panel*	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
CDKN1A	*Lymphoma Custom Panel*	DNA	SNV/INDEL
CDKN1B	*Oncomine™ Comprehensive Assay v3* *Lymphoma Custom Panel*	DNA DNA	SNV/INDEL SNV/INDEL
CDKN2A	*Ion AmpliSeq™ Cancer Hotspot Panel v2* *Oncomine™ Comprehensive Assay v3* *Oncomine™ Tumor Mutation Load Assay* *Lymphoma Custom Panel*	DNA DNA DNA DNA	SNV/INDEL SNV/INDEL, CNV SNV/INDEL SNV/INDEL
CDKN2B	*Oncomine™ Comprehensive Assay v3* *Oncomine™ Tumor Mutation Load Assay* *Lymphoma Custom Panel*	DNA DNA DNA	SNV/INDEL 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
CIITA	*Lymphoma Custom Panel*	DNA	SNV/INDEL
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
CREBBP	*Oncomine™ Comprehensive Assay v3* *Oncomine™ Tumor Mutation Load Assay* *Lymphoma Custom Panel*	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*
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* *Oncomine™ Comprehensive Assay v3* *Oncomine™ Tumor Mutation Load Assay*	DNA DNA DNA	SNV/INDEL SNV/INDEL SNV/INDEL
CSMD3	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
CTNNA1	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
CTNNB1	*Ion AmpliSeq™ Lung Cancer Panel v2* *Ion AmpliSeq™ Cancer Hotspot Panel v2* *Locarno custom panel* *Endometrial Custom Panel* *Oncomine™ Comprehensive Assay v3* *Oncomine™ Tumor Mutation Load Assay* *Oncomine™ Colon cfDNA Assay* *Lym phoma Custom Panel*	DNA DNA DNA DNA DNA DNA DNA DNA	SNV/INDEL SNV/INDEL SNV/INDEL SNV/INDEL SNV/INDEL SNV/INDEL SNV/INDEL SNV/INDEL
CTSS	*Lymphoma Custom Panel*	DNA	SNV/INDEL
CXCR4	*Lymphoma Custom Panel*	DNA	SNV/INDEL
CXCR5	*Lymphoma Custom Panel*	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™ Lung Cancer Panel v2* *Oncomine™ Comprehensive Assay v3* *Oncomine™ Tumor Mutation Load Assay*	DNA DNA DNA	SNV/INDEL SNV/INDEL SNV/INDEL
DDX3X	*Lymphoma Custom Panel*	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* *Lymphoma Custom Panel*	DNA DNA	SNV/INDEL SNV/INDEL
DPYD	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
DST	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
DTX1	*Lymphoma Custom Panel*	DNA	SNV/INDEL
EBF1	*Lymphoma Custom Panel*	DNA	SNV/INDEL
EGFR	*Ion AmpliSeq™ Lung Cancer Panel v2* *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
EGR2	*Lymphoma Custom Panel*	DNA	SNV/INDEL
EML4	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
EP300	*Oncomine™ Tumor Mutation Load Assay* *Lymphoma Custom Panel*	DNA DNA	SNV/INDEL 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* *Lymphoma Custom Panel*	DNA DNA	SNV/INDEL 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

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
ERBB2	*Ion AmpliSeq™ Lung Cancer Panel v2*	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™ Lung Cancer Panel v2*	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
ETS1	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
	Lymphoma Custom Panel	DNA	SNV/INDEL
ETV1	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
	Archer FusionPlex Custom panel	RNA	Fusioni geniche
ETV4	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
ETV6	*Lymphoma Custom Panel*	DNA	SNV/INDEL
EWSR1	*Archer FusionPlex Custom panel*	RNA	Fusioni geniche
EXT1	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
EXT2	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
EZH2	*Ion AmpliSeq™ Cancer Hotspot Panel v2*	DNA	SNV/INDEL
	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
	Lymphoma Custom Panel	DNA	SNV/INDEL
FAM123B	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
FANCA	*Oncomine™ Comprehensive Assay v3*	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
FANCC	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
FANCD2	*Oncomine™ Comprehensive Assay v3*	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
FANCF	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
FANCG	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
FANCI	*Oncomine™ Comprehensive Assay v3*	DNA	SNV/INDEL
FANCJ	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
FAS	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
	Lymphoma Custom Panel	DNA	SNV/INDEL
FBXW7	*Ion AmpliSeq™ Lung Cancer Panel v2*	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
	Lymphoma Custom Panel	DNA	SNV/INDEL
FGF1	*Archer FusionPlex Custom panel*	RNA	Fusioni geniche
FGF19	*Oncomine™ Comprehensive Assay v3*	DNA	CNV
FGF3	*Oncomine™ Comprehensive Assay v3*	DNA	CNV

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*
FGFR1	*Ion AmpliSeq™ Lung Cancer Panel v2*	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
	Archer FusionPlex Lung	RNA	Fusioni
FGFR2	*Ion AmpliSeq™ Lung Cancer Panel v2*	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
	Archer FusionPlex Lung	RNA	Fusioni geniche
FGFR3	*Ion AmpliSeq™ Lung Cancer Panel v2*	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
	Archer FusionPlex Lung	RNA	Fusioni
FGFR4	*Oncomine™ Comprehensive Assay v3*	DNA	SNV/INDEL, CNV
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
FGR	*Archer FusionPlex Custom panel*	RNA	Fusioni geniche
FH	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
FLCN	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
FLI1	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
FLT1	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
FLT3	*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
	Lymphoma Custom Panel	DNA	SNV/INDEL
FLT4	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
FN1	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
FOS	*Archer FusionPlex Custom panel*	RNA	Fusioni geniche
FOSB	*Archer FusionPlex Custom panel*	RNA	Fusioni geniche
FOXC1	*Lymphoma Custom Panel*	DNA	SNV/INDEL
FOXL2	*Oncomine™ Comprehensive Assay v3*	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
FOXO1	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
	Archer FusionPlex Custom panel	RNA	Fusioni geniche
	Lymphoma Custom Panel	DNA	SNV/INDEL
FOXO3	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
FOXP1	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
FOXP4	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
FUS	*Archer FusionPlex Custom panel*	RNA	Fusioni geniche
FYN	*Lymphoma Custom Panel*	DNA	SNV/INDEL
FZR1	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
G6PD	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
GATA1	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
GATA2	*Oncomine™ Comprehensive Assay v3*	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
GATA3	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
	Lymphoma Custom Panel	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*	DNA	SNV/INDEL
	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
GNA13	*Lymphoma Custom Panel*	DNA	SNV/INDEL
GNAI2	*Lymphoma Custom Panel*	DNA	SNV/INDEL
GNAQ	*Ion AmpliSeq™ Cancer Hotspot Panel v2*	DNA	SNV/INDEL
	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	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
GNAS	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
GPR124	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
GRHPR	Lymphoma Custom Panel	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
HIST1H1B	Lymphoma Custom Panel	DNA	SNV/INDEL
HIST1H1C	Lymphoma Custom Panel	DNA	SNV/INDEL
HIST1H1D	Lymphoma Custom Panel	DNA	SNV/INDEL
HIST1H1E	Lymphoma Custom Panel	DNA	SNV/INDEL
HIST1H2AC	Lymphoma Custom Panel	DNA	SNV/INDEL
HIST1H2AM	Lymphoma Custom Panel	DNA	SNV/INDEL
HIST1H2BC	Lymphoma Custom Panel	DNA	SNV/INDEL
HIST1H2BK	Lymphoma Custom Panel	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	DNA	SNV/INDEL
	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
HNF1B	Lymphoma Custom Panel	DNA	SNV/INDEL
HOOK3	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
HRAS	Ion AmpliSeq™ Cancer Hotspot Panel v2	DNA	SNV/INDEL
	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
	Lymphoma Custom Panel	DNA	SNV/INDEL
HSP90AA1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
HSP90AB1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
HVCN1	Lymphoma Custom Panel	DNA	SNV/INDEL
ICK	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
ID3	Lymphoma Custom Panel	DNA	SNV/INDEL
IDH1	Ion AmpliSeq™ Cancer Hotspot Panel v2	DNA	SNV/INDEL
	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
	Lymphoma Custom Panel	DNA	SNV/INDEL
IDH2	Ion AmpliSeq™ Cancer Hotspot Panel v2	DNA	SNV/INDEL
	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
	Lymphoma Custom Panel	DNA	SNV/INDEL
IGF1R	Oncomine™ Comprehensive Assay v3	DNA	CNV
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
	Archer FusionPlex Custom panel	RNA	Fusioni geniche
IGF2	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
IGF2R	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
IGLL5	Lymphoma Custom Panel	DNA	SNV/INDEL
IKBKB	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
	Lymphoma Custom Panel	DNA	SNV/INDEL
IKBKE	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
IKZF1	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
	Lymphoma Custom Panel	DNA	SNV/INDEL
IKZF3	Lymphoma Custom Panel	DNA	SNV/INDEL
IL16	Lymphoma Custom Panel	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
IL2	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
IL21R	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
IL4R	*Lymphoma Custom Panel*	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
IRF2BP2	*Lymphoma Custom Panel*	DNA	SNV/INDEL
IRF4	*Oncomine™ Tumor Mutation Load Assay* *Lymphoma Custom Panel*	DNA DNA	SNV/INDEL SNV/INDEL
IRF8	*Lymphoma Custom Panel*	DNA	SNV/INDEL
IRS2	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
ITGAE	*Lymphoma Custom Panel*	DNA	SNV/INDEL
ITGAv10	*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
ITPKB	*Lymphoma Custom Panel*	DNA	SNV/INDEL
JAK1	*Oncomine™ Comprehensive Assay v3* *Oncomine™ Tumor Mutation Load Assay* *Lymphoma Custom panel*	DNA DNA DNA	SNV/INDEL SNV/INDEL SNV/INDEL
JAK2	*Ion AmpliSeq™ Cancer Hotspot Panel v2* *Oncomine™ Comprehensive Assay v3* *Oncomine™ Tumor Mutation Load Assay* *Lymphoma Custom Panel*	DNA DNA DNA DNA	SNV/INDEL SNV/INDEL, CNV SNV/INDEL SNV/INDEL
JAK3	*Ion AmpliSeq™ Cancer Hotspot Panel v2* *Oncomine™ Comprehensive Assay v3* *Oncomine™ Tumor Mutation Load Assay* *Lymphoma Custom Panel*	DNA DNA DNA DNA	SNV/INDEL SNV/INDEL SNV/INDEL 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* *Oncomine™ Comprehensive Assay v3* *Oncomine™ Tumor Mutation Load Assay*	DNA DNA DNA	SNV/INDEL SNV/INDEL SNV/INDEL
KEAP1	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
KIT	*Ion AmpliSeq™ Cancer Hotspot Panel v2* *Oncomine™ Comprehensive Assay v3* *Oncomine™ Tumor Mutation Load Assay* *Lymphoma Custom Panel*	DNA DNA DNA DNA	SNV/INDEL SNV/INDEL, CNV SNV/INDEL SNV/INDEL
KLF2	*Lymphoma Custom Panel*	DNA	SNV/INDEL
KLF6	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
KLHL6	*Lymphoma Custom Panel*	DNA	SNV/INDEL
KLHL14	*Lymphoma Custom Panel*	DNA	SNV/INDEL
KLHL21	*Lymphoma Custom Panel*	DNA	SNV/INDEL
KMT2C	*Lymphoma Custom Panel*	DNA	SNV/INDEL
KMT2D	*Lymphoma Custom Panel*	DNA	SNV/INDEL
KNSTRN	*Oncomine™ Comprehensive Assay v3*	DNA	SNV/INDEL
KRAS	*Ion AmpliSeq™ Lung Cancer Panel v2* *Ion AmpliSeq™ Cancer Hotspot Panel v2* *Endometrial Custom Panel* *Oncomine™ Comprehensive Assay v3* *Oncomine™ Tumor Mutation Load Assay* *Oncomine™ Lung cfDNA Assay* *Oncomine™ Colon cfDNA Assay* *Archer FusionPlex Lung* *Lymphoma Custom Panel*	DNA DNA DNA DNA DNA DNA DNA RNA DNA	SNV/INDEL SNV/INDEL SNV/INDEL SNV/INDEL, CNV SNV/INDEL SNV/INDEL SNV/INDEL Fusioni geniche 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*
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
LTB	*Lymphoma Custom Panel*	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* *Archer FusionPlex Custom panel*	DNA RNA	SNV/INDEL Fusioni geniche
MAP2K1 (MEK1)	*Ion AmpliSeq™ Lung Cancer Panel v2* *Oncomine™ Comprehensive Assay v3* *Oncomine™ Tumor Mutation Load Assay* *Oncomine™ Lung cfDNA Assay* *Oncomine™ Colon cfDNA Assay* *Lymphoma Custom Panel*	DNA DNA DNA DNA DNA DNA	SNV/INDEL SNV/INDEL SNV/INDEL SNV/INDEL SNV/INDEL SNV/INDEL
MAP2K2	*Oncomine™ Comprehensive Assay v3* *Oncomine™ Tumor Mutation Load Assay*	DNA DNA	SNV/INDEL SNV/INDEL
MAP2K4	*Oncomine™ Comprehensive Assay v3* *Oncomine™ Tumor Mutation Load Assay*	DNA DNA	SNV/INDEL SNV/INDEL
MAP3K7	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
MAPK1	*Oncomine™ Comprehensive Assay v3* *Oncomine™ Tumor Mutation Load Assay*	DNA DNA	SNV/INDEL 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* *Lymphoma Custom Panel*	DNA DNA	SNV/INDEL SNV/INDEL
MDM2	*Oncomine™ Comprehensive Assay v3* *Oncomine™ Tumor Mutation Load Assay*	DNA DNA	CNV SNV/INDEL
MDM4	*Oncomine™ Comprehensive Assay v3* *Oncomine™ Tumor Mutation Load Assay*	DNA DNA	SNV/INDEL, CNV SNV/INDEL
MEAF6	*Archer FusionPlex Custom panel*	RNA	Fusioni
MED12	*Oncomine™ Comprehensive Assay v3*	DNA	SNV/INDEL
MEF2B	*Lymphoma Custom Panel*	DNA	SNV/INDEL
MEF2C	*Lymphoma Custom Panel*	DNA	SNV/INDEL
MEN1	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
MET	*Ion AmpliSeq™ Lung Cancer Panel v2* *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 DNA DNA DNA DNA RNA RNA	SNV/INDEL SNV/INDEL SNV/INDEL, CNV SNV/INDEL SNV/INDEL Fusioni geniche Fusioni geniche
MGA	*Lymphoma Custom Panel*	DNA	SNV/INDEL
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

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
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
MS4A1	Lymphoma Custom Panel	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
	Lymphoma Custom Panel	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
	Lymphoma Custom Panel	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
NFKBIA	Lymphoma Custom Panel	DNA	SNV/INDEL
NFKBIE	Lymphoma Custom Panel	DNA	SNV/INDEL
NFKBIZ	Lymphoma Custom Panel	DNA	SNV/INDEL
NIN	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*
NKX2-1	*Oncomine™ Tumor Mutation Load Assay*		DNA	SNV/INDEL
NLRP1	*Oncomine™ Tumor Mutation Load Assay*		DNA	SNV/INDEL
NOL9	*Lymphoma Custom Panel*		DNA	SNV/INDEL
NOTCH1	*Ion AmpliSeq™ Lung Cancer Panel v2*		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
	Lymphoma Custom Panel		DNA	SNV/INDEL
NOTCH2	*Oncomine™ Comprehensive Assay v3*		DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay		DNA	SNV/INDEL
	Lymphoma Custom Panel		DNA	SNV/INDEL
NOTCH3	*Oncomine™ Comprehensive Assay v3*		DNA	SNV/INDEL
NOTCH4	*Oncomine™ Tumor Mutation Load Assay*	*Oncomine™*	DNA	SNV/INDEL
NPM1	*Ion AmpliSeq™ Cancer Hotspot Panel v2*		DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay		DNA	SNV/INDEL
NRAS	*Ion AmpliSeq™ Lung Cancer Panel v2*		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
	Lymphoma Custom Panel		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
P2RY8	*Lymphoma Custom Panel*		DNA	SNV/INDEL
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
	Lymphoma Custom Panel		DNA	SNV/INDEL
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
PCBP1	*Lymphoma Custom Panel*		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

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*
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
PHF6	*Lymphoma Custom Panel*	DNA	SNV/INDEL
PHOX2B	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
PIK3C2B	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
PIK3CA	*Ion AmpliSeq™ Lung Cancer Panel v2*	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
	Lymphoma Custom Panel	DNA	SNV/INDEL
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
	Lymphoma Custom Panel	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
	Lymphoma Custom Panel	DNA	SNV/INDEL
PIK3R2	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
PIM1	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
	Lymphoma Custom Panel	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
	Lymphoma Custom Panel	DNA	SNV/INDEL
PLCG2	*Lymphoma Custom Panel*	DNA	SNV/INDEL
PLEKHG5	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
PML	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
PMS1	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
PMS2	*Oncomine™ Comprehensive Assay v3*	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
POLE	*Endometrial Custom Panel*	DNA	SNV/INDEL
	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
POT1	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
	Lymphoma Custom Panel	DNA	SNV/INDEL
POU5F1	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
PPARG	*Oncomine™ Comprehensive Assay v3*	DNA	SNV/INDEL, CNV
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
	Archer FusionPlex Custom panel	RNA	Fusioni geniche
PPM1D	*Lymphoma Custom Panel*	DNA	SNV/INDEL
PPP1R9B	*Lymphoma Custom Panel*	DNA	SNV/INDEL
PPP2R1A	*Oncomine™ Comprehensive Assay v3*	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
PRDM1	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
	Lymphoma Custom Panel	DNA	SNV/INDEL
PRKAR1A	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
PRKCB	*Lymphoma Custom Panel*	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

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
PTCH1	*Oncomine™ Comprehensive Assay v3*	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
PTEN	*Ion AmpliSeq™ Lung Cancer Panel v2 Ion AmpliSeq™*	DNA	SNV/INDEL
	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
	Lymphoma Custom Panel	DNA	SNV/INDEL
PTGS2	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
PTPN1	*Lymphoma Custom Panel*	DNA	SNV/INDEL
PTPN11	*Ion AmpliSeq™ Cancer Hotspot Panel v2*	DNA	SNV/INDEL
	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
	Lymphoma Custom Panel	DNA	SNV/INDEL
PTPRD	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
	Lymphoma Custom Panel	DNA	SNV/INDEL
PTPRK	*Lymphoma Custom Panel*	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*	DNA	SNV/INDEL
	Oncomine™ Tumor Mutation Load Assay	DNA	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*	DNA	SNV/INDEL, CNV
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
	Archer FusionPlex Custom panel	RNA	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*	DNA	SNV/INDEL
	Oncomine™ Comprehensive Assay v3	DNA	SNV/INDEL, CNV
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
	Lymphoma Custom Panel	DNA	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
RELN	*Lymphoma Custom Panel*	DNA	SNV/INDEL
RERE	*Lymphoma Custom Panel*	DNA	SNV/INDEL
RET	*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
	Archer FusionPlex Lung	RNA	Fusioni geniche
RHEB	*Oncomine™ Comprehensive Assay v3*	DNA	SNV/INDEL
RHOA	*Oncomine™ Comprehensive Assay v3*	DNA	SNV/INDEL
	Lymphoma Custom Panel	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*	DNA	SNV/INDEL, CNV
	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
	Oncomine™ Lung cfDNA Assay	DNA	SNV/INDEL
	Archer FusionPlex Custom panel	RNA	Fusioni geniche
	Archer FusionPlex Lung	RNA	Fusioni geniche
RPS15	*Lymphoma Custom Panel*	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*
RPS6KA2	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
RRAGC	*Lymphoma Custom Panel*	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
S1PR2	*Lymphoma Custom Panel*	DNA	SNV/INDEL
SAMD9	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
SAMHD1	*Lymphoma Custom Panel*	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
SETD1B	*Lymphoma Custom Panel*	DNA	SNV/INDEL
SETD2	*Oncomine™ Comprehensive Assay v3* *Oncomine™ Tumor Mutation Load Assay* *Lymphoma Custom Panel*	DNA DNA DNA	SNV/INDEL SNV/INDEL SNV/INDEL
SF3B1	*Oncomine™ Comprehensive Assay v3* *Oncomine™ Tumor Mutation Load Assay* *Lymphoma Custom Panel*	DNA DNA DNA	SNV/INDEL SNV/INDEL SNV/INDEL
SGK1	*Oncomine™ Tumor Mutation Load Assay* *Lymphoma Custom Panel*	DNA DNA	SNV/INDEL 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™ Lung Cancer Panel v2* *Ion AmpliSeq™ Cancer Hotspot Panel v2* *Oncomine™ Comprehensive Assay v3* *Oncomine™ Tumor Mutation Load Assay* *Oncomine™ Colon cfDNA Assay*	DNA DNA DNA DNA DNA	SNV/INDEL SNV/INDEL SNV/INDEL SNV/INDEL SNV/INDEL
SMARCA4	*Oncomine™ Comprehensive Assay v3* *Oncomine™ Tumor Mutation Load Assay* *Lymphoma Custom Panel*	DNA DNA DNA	SNV/INDEL SNV/INDEL SNV/INDEL
SMARCB1	*Ion AmpliSeq™ Cancer Hotspot Panel v2* *Oncomine™ Comprehensive Assay v3* *Oncomine™ Tumor Mutation Load Assay*	DNA DNA DNA	SNV/INDEL SNV/INDEL SNV/INDEL
SMO	*Ion AmpliSeq™ Cancer Hotspot Panel v2* *Oncomine™ Comprehensive Assay v3* *Oncomine™ Tumor Mutation Load Assay*	DNA DNA DNA	SNV/INDEL SNV/INDEL SNV/INDEL
SMUG1	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
SOCS1	*Oncomine™ Tumor Mutation Load Assay* *Lymphoma Custom Panel*	DNA DNA	SNV/INDEL SNV/INDEL
SOCS3	*Lymphoma Custom Panel*	DNA	SNV/INDEL
SOX11	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
SOX2	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
SPEN	*Lymphoma Custom Panel*	DNA	SNV/INDEL
SPOP	*Oncomine™ Comprehensive Assay v3*	DNA	SNV/INDEL
SRC	*Ion AmpliSeq™ Cancer Hotspot Panel v2* *Oncomine™ Comprehensive Assay v3* *Oncomine™ Tumor Mutation Load Assay*	DNA DNA DNA	SNV/INDEL SNV/INDEL 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* *Lymphoma Custom Panel*	DNA DNA	SNV/INDEL SNV/INDEL
STAT5B	*Lymphoma Custom Panel*	DNA	SNV/INDEL
STAT6	*Archer FusionPlex Custom panel* *Lymphoma Custom Panel*	RNA DNA	Fusioni geniche 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
STK11	Ion AmpliSeq™ Lung Cancer Panel v2	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
TBL1XR1	Lymphoma Custom Panel	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
	Lymphoma Custom Panel	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
	Lymphoma Custom Panel	DNA	SNV/INDEL
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
TMEM30A	Lymphoma Custom Panel	DNA	SNV/INDEL
TMPRSS2	Archer FusionPlex Custom panel	RNA	Fusioni geniche
TMSB4X	Lymphoma Custom Panel	DNA	SNV/INDEL
TNFAIP3	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
	Lymphoma Custom Panel	DNA	SNV/INDEL
TNFRSF14	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
	Lymphoma Custom Panel	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
TOX	Lymphoma Custom Panel	DNA	SNV/INDEL
TP53	Ion AmpliSeq™ Lung Cancer Panel v2	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
	Lymphoma Custom Panel	DNA	SNV/INDEL
TPR	Oncomine™ Tumor Mutation Load Assay	DNA	SNV/INDEL
TRAF2	Lymphoma Custom Panel	DNA	SNV/INDEL
TRAF3	Lymphoma Custom Panel	DNA	SNV/INDEL
TRIM24	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*
TRIM33	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
TRIP11	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
TRIP12	*Lymphoma Custom Panel*	DNA	SNV/INDEL
TRRAP	*Oncomine™ Tumor Mutation Load Assay* *Lymphoma Custom Panel*	DNA DNA	SNV/INDE SNV/INDELL
TSC1	*Oncomine™ Comprehensive Assay v3* *Oncomine™ Tumor Mutation Load Assay*	DNA DNA	SNV/INDEL SNV/INDEL
TSC2	*Oncomine™ Comprehensive Assay v3* *Oncomine™ Tumor Mutation Load Assay*	DNA DNA	SNV/INDEL SNV/INDEL
TSHR	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
U2AF1	*Oncomine™ Comprehensive Assay v3*	DNA	SNV/INDEL
UBE2A	*Lymphoma Custom Panel*	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* *Oncomine™ Tumor Mutation Load Assay*	DNA DNA	SNV/INDEL SNV/INDEL
VMP1	*Lymphoma Custom Panel*	DNA	SNV/INDEL
VPS13B	*Lymphoma Custom Panel*	DNA	SNV/INDEL
WAS	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
WEE	*Lymphoma Custom Panel*	DNA	SNV/INDEL
WHSC1	*Oncomine™ Tumor Mutation Load Assay* *Lymphoma Custom Panel*	DNA DNA	SNV/INDEL 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* *Oncomine™ Tumor Mutation Load Assay* *Lymphoma Custom Panel*	DNA DNA DNA	SNV/INDEL SNV/INDEL SNV/INDEL
XRCC2	*Oncomine™ Tumor Mutation Load Assay*	DNA	SNV/INDEL
YWHAE	*Archer FusionPlex Custom panel*	RNA	Fusioni geniche
ZC3H12A	*Lymphoma Custom Panel*	DNA	SNV/INDEL
ZEB2	*Lymphoma Custom Panel*	DNA	SNV/INDEL
ZFP36L1	*Lymphoma Custom Panel*	DNA	SNV/INDEL
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)