

QIAseq Multimodal Panels

Human Sarcoma

Cat. nos. 333932 UHS-006Z-12 and 333935 UHS-006Z-96

For consolidated targeted next-generation sequencing of DNA and RNA

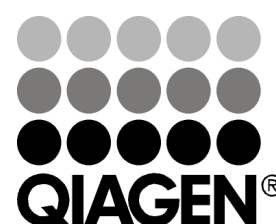
The QIAseq Multimodal Human Sarcoma Panel permits the sequencing the whole coding region of 161 genes frequently mutated in sarcomas as well as the detection of fusions to 102 genes also frequently observed in sarcoma samples, with 11243 and 665 primers respectively. Such frequently detected mutations and fusions are likely to be relevant or even important to sarcoma biology and may be used in translational research to classify samples with known phenotypes. Using the Catalogue of Somatic Mutations in Cancer (COSMIC), frequently mutated genes and frequently detected fusions were collected for angiosarcomas, chondrosarcomas, clear cell sarcomas, endometrial stromal sarcomas, epithelioid sarcomas, Ewing sarcomas, fibrosarcoma, gastrointestinal stromal tumors (GIST), leiomyosarcomas, liposarcomas, osteosarcomas, rhabdomyosarcomas, synovial sarcomas, and other sarcomas. From the same cancer subtypes, additional fusions were also collected from the Archer Quiver Database, and more mutations and more fusions were both requested and suggested by QIAGEN KOLs and SMEs and found in other peer-reviewed publications. Using digital DNA sequencing, SNP/indels in, and fusions to, two different focused panels of genes relevant to sarcomas can be detected with this primer pool.

For further details, consult the *QIAseq Multimodal Panels Handbook*.

Shipping and storage

QIAseq Multimodal Panels (except QIAseq Beads, QIAseq Bead Binding Buffer, and Nuclease-free Water) are shipped on dry ice and should be stored immediately upon receipt at -30°C to -15°C in a constant-temperature freezer. QIAseq Beads, QIAseq Bead Binding Buffer, and Nuclease-free Water are shipped in a separate box on cold packs. Upon receipt, QIAseq Beads, QIAseq Bead Binding Buffer, and Nuclease-free Water should be stored at $2-8^{\circ}\text{C}$. QIAseq Multimodal Index kits are shipped on dry ice and should be stored at -30°C to -15°C upon arrival.

Note: Open the package and store the products appropriately immediately upon receipt.



Panel Contents

QIAseq Multimodal Panel Catalog Number	333932	333935
Number of samples	12	96
Multimodal DHS Panel (DNA)	120 μ L	960 μ L
Multimodal VHS Panel (RNA)	96 μ L	768 μ L
Fragmentation Buffer, 10x	40 μ L	192 μ L
Fragmentation Enzyme Mix	90 μ L	384 μ L
FERA Solution	15 μ L	60 μ L
Side Reaction Reducer	48 μ L	192 μ L
FG Solution	170 μ L	170 μ L
DNA Ligase	75 μ L	600 μ L
Ligation Solution	125 μ L	970 μ L
Ligation Buffer, 5x	160 μ L	1250 μ L
DNA Ligation Adapter	34 μ L	270 μ L
ATP Solution	36 μ L	290 μ L
PAP Enzyme	12 μ L	96 μ L
PAP Dilution Buffer, 10x	24 μ L	192 μ L
T4 Polynucleotide Kinase	12 μ L	125 μ L
EZ Reverse Transcriptase	15 μ L	150 μ L
RNase Inhibitor	12 μ L	96 μ L
Multimodal RT Primer	12 μ L	96 μ L
Multimodal RT Buffer, 5x	60 μ L	480 μ L
Multimodal RT Enhancer	12 μ L	48 μ L
TEPCR Buffer, 5x	60 μ L $\times$ 2	500 μ L $\times$ 2
HotStarTaq® DNA Polymerase (6 U/ μ L)	60 μ L	480 μ L
Nuclease-free Water	1 tube	10 mL
QIAseq Beads	10 mL	38.4 mL $\times$ 2
QIAseq Bead Binding Buffer	10.2 mL	10.2 mL $\times$ 2

Gene Table: DNA SNP/indel

Gene Symbol	Gene Symbol	Gene Symbol	Gene Symbol
AFF3	AKAP9	AKT1	ALK
APC	AR	ARID1A	ARID1B
ARID2	ASXL1	ATM	ATR
ATRX	BCOR	BIRC6	BRAF
BRCA1	BRCA2	BRD4	CACNA1D
CAMTA1	CARD11	CASP8	CBL
CD209	CD79B	CDH1	CDKN2A
CHD4	CIC	CLTCL1	CNTNAP2
COL2A1	COL3A1	CREBBP	C5MD3
CTNNB1	DAXX	DCC	DDX10
DGCR8	DICER1	DNMT3A	EED
EGFR	EP300	EPHA3	EPHA7
EP515	ERBB2	ERBB3	ERBB4
ERCC4	ERCC5	EZH2	FAM131B
FAM47C	FANCA	FAT1	FAT4
FBXW7	FGFR1	FGFR2	FGFR3
FGFR4	FLNA	FLT3	FLT4
FOXP1	GNAS	GRIN2A	H3-3A
HNF1A	HRAS	IDH1	IDH2
IRS4	JAK1	JAK3	KDM6A
KDR	KIT	KMT2A	KMT2C
KMT2D	KRAS	LRP1B	MAML2
MED12	MET	MLH1	MLLT3
MPL	MSH2	MTOR	MUC16
MUC4	MUTYH	MYH9	MYOD1
NBEA	NCOR1	NCOR2	NF1
NF2	NOTCH1	NOTCH2	NPM1
NRAS	NSD1	NTRK3	PALB2
PAX3	PAX5	PBRM1	PDGFRA
PDGFRB	PIK3CA	PIK3CB	PIK3R1
PLCG1	PML	POLE	PRDM1
PRDM2	PREX2	PTCH1	PTEN
PTPN11	PTPN13	PTPRB	PTPRD
PTPRT	RB1	RECQL4	ROBO2
ROS1	SDHA	SETD2	SFRP4
SH2B3	SMAD2	SMARCA4	SMARCB1
SMARCD1	SPEN	STAG2	SUFU
TERT	TET2	TGFBR2	TNC
TOP1	TP53	TRAF7	TRRAP
TSC1	TSC2	WNK2	XPC
ZFXH3			

Gene Table: RNA Fusions

Gene Symbol	Gene Symbol	Gene Symbol	Gene Symbol
ACVR2A	ALK	ASPSCR1	ATF1
BCOR	BRAF	CAMTA1	CCNB3
CDX1	CEP85L	CIC	CITED2
COL1A1	COL6A3	CREB1	CREB3L1
CREB3L2	CREM	CSF1	CXorf67
DDIT3	DVL2	EPC1	ERG
ETV1	ETV4	ETV6	EW5R1
FEV	FGF1	FGFR1	FLI1
FN1	FOXO1	FOXO4	FUS
GLI1	HEY1	HMGA2	IRF2BP2
JAZF1	KLF17	LEUTX	LGR5
LMNA	MAML3	MBTD1	MEAF6
MED12	MET	MKL2	NAB2
NCOA1	NCOA2	NCOA4	NFATC2
NPM1	NR4A3	NTRK1	NTRK3
NUP107	NUTM2A	NUTM2B	PATZ1
PAX3	PAX7	PBX3	PDGFB
PHF1	PLAG1	POU5F1	PRDM10
RELA	RET	ROS1	RUNX1
RUNX1T1	S100A10	SFPQ	SMARCA5
SP3	SRF	SS18	SS18L1
SSX1	SSX2	SSX4	STAT6
SUZ12	TAF15	TCF12	TEAD1
TFE3	TFG	TOM1L2	TPM3
USP6	VGLL2	WT1	YAP1
YWHAE	ZC3H7B		

Functional Groupings

DNA SNP/INDELS:

Alveolar Soft Part Sarcomas: APC, CDH1, KMT2D, NTRK3, PTEN, TP53.

Angiosarcomas & Epithelioid Haemangioendotheliomas: AKT1, ALK, APC, AR, ARID1A, ARID1B, ARID2, ASXL1, ATM, ATR, ATRX, BRAF, BRCA1, BRCA2, CASP8, CDKN2A, CIC, CREBBP, CSMD3, CTNNB1, DCC, EGFR, EP300, EPHA3, EPHA7, ERBB2, ERBB3, ERBB4, EZH2, FAT1, FBXW7, FGFR1, FGFR2, FGFR3, FGFR4, FLT3, FLT4, HRAS, JAK3, KDM6A, KDR, KMT2D, KRAS, LRP1B, MED12, MET, MLH1, MPL, MSH2, MTOR, MUC16, NBEA, NCOR1, NF1, NOTCH2, NRAS, NSD1, NTRK3, PAX5, PBRM1, PDGFRB, PIK3CA, PIK3CB, PIK3R1, PLCG1, PRDM1, PREX2, PTCH1, PTEN, PTPRB, PTPRD, PTPRT, ROS1, SETD2, SMARCD1, TERT, TGFB2, TP53, TRAF7, TRRAP, TSC1, TSC2, ZFH3.

Chondrosarcomas: AKAP9, ALK, AR, ARID1A, ATRX, CACNA1D, CAMTA1, CDKN2A, CNTNAP2, COL2A1, DNMT3A, EED, EPHA3, EPHA7, ERBB3, ERBB4, FLT4, H3-3A, HRAS, IDH1, IDH2, IRS4, JAK1, KDM6A, KDR, KMT2D, LRP1B, MLLT3, MUC16, MUTYH, MYH9, NF2, NRAS, PALB2, POLE, PTCH1, PTEN, PTPRB, PTPRT, RB1, ROS1, SDHA, SETD2, SMAD2, SMARCB1, SUFU, TERT, TET2, TP53, TSC1, ZFH3.

Chordomas: ALK, APC, AR, ARID1A, ATM, CBL, CDKN2A, CTNNB1, KDR, KIT, KMT2A, KMT2D, NRAS, PIK3CA, PTEN, SETD2, SMARCB1, TP53.

Clear Cell Sarcomas: BRAF, CDKN2A, EGFR, NRAS, PTEN, TP53.

Dermatofibrosarcoma Protuberans: FGFR1, MED12, NF1, TGFB2.

Desmoplastic Small Round Cell Tumors: APC, CIC, CREBBP, DAXX, EGFR, EP300, EPHA3, KMT2C, MTOR, ROS1, SMARCA4, TET2.

Endometrial Stromal Sarcomas: ASXL1, CTNNB1, DCC, ERBB3, FBXW7, FGFR2, FLT3, KMT2C, KRAS, MED12, PIK3CA, PTCH1, TP53.

Epithelioid Sarcomas: DICER1, SMARCB1, TET2, TGFB2.

Ewing Sarcomas: AFF3, AKAP9, ALK, APC, AR, ARID1A, ARID1B, ARID2, ASXL1, ATM, ATR, ATRX, BCOR, BIRC6, BRAF, BRCA1, BRCA2, CACNA1D, CAMTA1, CARD11, CBL, CD209, CD79B, CDH1, CDKN2A, CHD4, CIC, CLTCL1, COL2A1, COL3A1, CREBBP, CSMD3, CTNNB1, DAXX, DCC, DDX10, DGCR8, DICER1, DNMT3A, EED, EGFR, EP300, EPHA3, EPHA7, EPS15, ERBB2, ERBB4, ERCC5, EZH2, FAM131B, FAM47C, FANCA, FAT1, FAT4, FBXW7, FGFR1, FGFR3, FGFR4, FLNA, FLT4, GNAS, GRIN2A, HNF1A, HRAS, IDH1, IDH2, IRS4, KDR, KIT, KMT2A, KMT2C, KMT2D, KRAS, LRP1B, MAML2, MED12, MET, MLH1, MLLT3, MSH2, MTOR, MUC16, MUC4, MUTYH, MYH9, MYOD1, NCOR1, NCOR2, NF1, NF2, NOTCH1, NOTCH2, NPM1, NRAS, NSD1, NTRK3, PALB2, PAX5, PBRM1, PDGFRB, PIK3CA, PIK3CB, PIK3R1, PLCG1, PML, POLE, PRDM1, PRDM2, PREX2, PTCH1, PTEN, PTPN13, PTPRB, PTPRD, PTPRT, RB1, RECQL4, ROS1, SDHA, SETD2, SMARCA4, SMARCB1, SPEN, STAG2, SUFU, TERT, TET2, TNC, TOP1, TP53, TRAF7, TRRAP, TSC1, TSC2, XPC, ZFH3.

Fibrosarcomas: ATRX, BCOR, BRCA1, CDKN2A, CTNNB1, EGFR, EZH2, FGFR3, FLT3, FOXP1, KDM6A, KDR, KIT, KRAS, NF1, NF2, NRAS, POLE, PTEN, RB1, TERT, TP53, TRAF7.

Gastrointestinal Stromal Tumors (GIST): ALK, APC, AR, ARID1A, ARID1B, ARID2, ASXL1, ATR, ATRX, BRAF, BRCA2, CARD11, CBL, CDH1, CDKN2A, CHD4, CREBBP, DAXX, DICER1, EGFR, EP300, EPHA7, ERBB4, FAT1, FBXW7, FGFR1, FLT4, FOXP1, H3-3A, HNF1A, JAK1, KDM6A, KDR, KIT, KMT2A, KMT2C, KMT2D, KRAS, MED12, MSH2, MTOR, MYOD1, NF1, NF2, NOTCH1, NOTCH2, PBRM1, PDGFRA, PDGFRB, PIK3CA, POLE, PTCH1, PTEN, PTPRT, RB1, RECQL4, ROS1, SDHA, SETD2, SH2B3, SPEN, TERT, TET2, TGFB2, TP53, TRAF7, TSC1, TSC2, ZFH3.

Kaposi Sarcomas: BRAF, PIK3CA, TP53.

Leiomyosarcomas: ALK, APC, AR, ARID1A, ARID1B, ARID2, ASXL1, ATM, ATR, ATRX, BRCA1, BRCA2, BRD4, CARD11, CBL, CDH1, CREBBP, DAXX, DNMT3A, EED, EP300, EPHA3, ERBB3, ERBB4, ERCC5, EZH2, FGFR1, FGFR3, FOXP1, GRIN2A, JAK1, JAK3, KDM6A, MET, MPL, MSH2, NCOR1, NF2, NPM1, PAX5, RECQL4, TGFB2, TOP1, TRAF7.

Liposarcomas: AKT1, ALK, APC, ARID1A, ARID1B, ATM, ATRX, BRAF, BRCA2, BRD4, CBL, CD79B, CDH1, CDKN2A, CIC, COL3A1, CTNNB1, DICER1, DNMT3A, EGFR, EP300, ERBB2, ERBB4, FAT1, FAT4, FBXW7, FGFR1, FGFR2, FGFR3, FOXP1, HRAS, JAK1, JAK3, KDM6A, KDR, KIT, KMT2A, KMT2C, KMT2D, KRAS, MAML2, MLH1, MPL, MUTYH, NCOR1, NF1, NF2, NOTCH2, NSD1, PBRM1, PDGFRA, PIK3CA, PIK3R1, POLE, PRDM1, PTEN, RB1, RECQL4, ROS1, SDHA, SETD2, SMARCA4, TERT, TET2, TP53, TSC1, ZFH3.

Malignant Peripheral Nerve Sheath Tumors (MPNST): ARID2, BCOR, BIRC6, BRAF, BRCA1, CBL, CDKN2A, EED, FAT1, KRAS, NF1, NRAS, PAX5, PDGFRA, STAG2, TERT, TP53.

Osteosarcomas: AKT1, ALK, APC, AR, ARID1A, ASXL1, ATR, ATRX, BCOR, BRAF, BRCA1, BRCA2, BRD4, CACNA1D, CAMTA1, CARD11, CBL, CD209, CDH1, CDKN2A, CHD4, CLTCL1, COL2A1, CREBBP, CSMD3, DAXX, DCC, DDX10, DNMT3A, EGFR, EP300, EPHA7, ERBB4, FAM47C, FANCA, FAT4, FBXW7, FGFR3, FGFR4, FLNA, FLT3, FOXP1, GNAS, GRIN2A, H3-3A, IDH2, JAK1, JAK3, KDR, KMT2A, KMT2C, KMT2D, LRP1B, MED12, MET, MLH1, MLLT3, MUC16, MUC4, NBEA, NCOR1, NCOR2, NF1, NF2, NOTCH2, NPM1, NTRK3, PAX3, PBRM1, PDGFRB, PIK3CA, PIK3CB, PIK3R1, POLE, PRDM1, PRDM2, PREX2, PTCH1, PTEN, PTPRD, PTPRT, RB1, RECQL4, ROBO2, ROS1, SDHA, SETD2, SMAD2, SMARCA4, SPEN, STAG2, SUFU, TERT, TET2, TGFB2, TNC, TP53, TRRAP, TSC1, TSC2, WNK2, XPC, ZFH3.

Perivascular Epithelioid Cell Tumors (PEComa): ALK, ATM, ATRX, CIC, JAK3, KDM6A, MED12, NOTCH2, NTRK3, RB1, SDHA, TP53, TSC1, TSC2.

Pleomorphic Sarcomas (Malignant Fibrous Histiocytoma): ALK, APC, AR, ARID1A, ARID1B, ARID2, ASXL1, ATM, ATR, ATRX, BRAF, BRCA1, BRCA2, BRD4, CARD11, CASP8, CD79B, CDKN2A, CIC, CTNNB1, DICER1, DNMT3A, EGFR, EP300, EPHA3, ERBB2, ERBB3, ERBB4, EZH2, FANCA, FAT1, FBXW7, FGFR1, FGFR4, FLT3, FOXP1, GRIN2A, HRAS, IDH1, JAK1, JAK3, KIT, KMT2A, KMT2C, KMT2D, KRAS, MET, MLH1, MSH2, MTOR, MUTYH, MYOD1, NCOR1, NF1, NF2, NOTCH1, NOTCH2, NPM1, NRAS, NSD1, NTRK3, PALB2, PAX5, PBRM1, PDGFRB, PIK3CA, POLE, PRDM1, PTCH1, PTEN, PTPN11, PTPRD, PTPRT, RB1, ROS1, SETD2, SMARCA4, SMARCB1, SUFU, TERT, TET2, TGFB2, TOP1, TP53, TRAF7, TSC2, ZFH3.

Rhabdoid Tumors: CREBBP, KDM6A, KMT2C, MUC16, PBRM1, SETD2, SMARCA4, SMARCB1, TSC2.

Rhabdomyosarcomas: AFF3, AKAP9, ALK, APC, AR, ARID1A, ARID1B, ARID2, ASXL1, ATM, ATR, ATRX, BCOR, BRAF, BRCA1, BRCA2, CASP8, CDKN2A, CHD4, CIC, CLTCL1, CNTNAP2, COL2A1, CREBBP, CSMD3, CTNNB1, DAXX, DCC, DGCR8, DICER1, DNMT3A, EP300, EPHA3, EPHA7, EP515, ERBB2, ERBB3, ERCC4, ERCC5, EZH2, FAM131B, FAM47C, FANCA, FAT1, FAT4, FBXW7, FGFR1, FGFR2, FGFR3, FGFR4, FLNA, FLT3, FLT4, FOXP1, GNAS, GRIN2A, HNF1A, HRAS, IRS4, KDM6A, KDR, KIT, KMT2C, KMT2D, KRAS, LRP1B, MAML2, MED12, MET, MLH1, MPL, MSH2, MTOR, MUC16, MUTYH, MYH9, MYOD1, NBEA, NCOR2, NF1, NOTCH1, NOTCH2, NRAS, NSD1, NTRK3, PALB2, PDGFRA, PDGFRB, PIK3CA, PML, POLE, PRDM1, PRDM2, PREX2, PTCH1, PTEN, PTPN11, PTPN13, PTPRT, RECQL4, ROBO2, ROS1, SETD2, SFRP4, SH2B3, SMARCA4, SMARCB1, TET2, TNC, TP53, TRAF7, TRRAP, TSC1, TSC2, WNK2, XPC, ZFH3.

Solitary Fibrous Tumors: ALK, APC, ARID2, CBL, EP300, ERBB4, FAT1, FBXW7, FGFR1, FGFR3, KMT2D, NF1, NSD1, PIK3R1, PTEN, SPEN, SUFU, TERT, TP53.

Synovial Sarcomas: ARID1B, ARID2, BCOR, BRAF, CDH1, CTNNB1, EGFR, ERBB4, FGFR1, FLT4, HRAS, KDR, KMT2A, KMT2C, KMT2D, KRAS, MED12, MLH1, PALB2, PDGFRA, PIK3CA, PIK3R1, PRDM1, PTEN, SETD2, TERT, TP53, TRAF7, TRRAP, ZFH3.

Undifferentiated; Unclassified or Other Sarcomas: ARID2, ATM, ATRX, BRCA2, CIC, CREBBP, CTNNB1, DICER1, EED, EGFR, EPHA7, FBXW7, FLT3, FOXP1, H3-3A, HNF1A, KDM6A, MED12, MET, NCOR1, NOTCH2, NSD1, PALB2, PBRM1, PTCH1, PTPRD, ROS1, SH2B3, SPEN, STAG2, SUFU, TP53.

GENE FUSIONS:

Alveolar Soft Part Sarcomas: ASPSCR1, TFE3.

Angiosarcomas & Epithelioid Haemangioendotheliomas: CAMTA1, CEP85L, CIC, LEUTX, ROS1, TFE3, YAP1.

Askins Tumors: ERG, EWSR1, FLI1, FUS.

Chondrosarcomas: ACVR2A, CDX1, EWSR1, FN1, HEY1, IRF2BP2, NCOA2, NR4A3, TAF15, TCF12, TFG.

Chondrosarcomas; Myxoid: NR4A3, TAF15.

Clear Cell Sarcomas: ATF1, CREB1, EWSR1, FLI1, NUTM2B, YWHAE.

Congenital (Infantile) Fibrosarcomas: ETV6, MET, NTRK3, TFG.

Dermatofibrosarcoma Protuberans: COL1A1, PDGFB.

Desmoplastic Small Round Cell Tumors: ERG, EWSR1, FLI1, PATZ1, WT1.

Endometrial Stromal Sarcomas: ALK, BCOR, CXorf67, EPC1, FN1, JAZF1, MBTD1, MEAF6, NUTM2A, NUTM2B, PHF1, SUZ12, YWHAE, ZC3H7B.

Epithelioid Sarcomas: CREB3L1, CREB3L2, EWSR1, FUS, KLF17, SS18, SSX1.

Ewing's Sarcomas: CIC, ERG, ETV1, ETV4, EWSR1, FEV, FLI1, FOXO4, FUS, NFATC2, SMARCA5, SP3.

Fibrosarcomas: BRAF, COL1A1, CREB3L1, CREB3L2, EWSR1, FUS, LMNA, NTRK1, PDGFB, TOM1L2.

Leiomyosarcomas: EWSR1, PBX3, WT1.

Liposarcomas: DDIT3, EWSR1, FUS, LGR5, NUP107.

Myofibroblastic Sarcomas: ALK, LMNA, NTRK1, RELA, ROS1, SRF, TFG, TPM3, YWHAE.

Perivascular Epithelioid Cell Tumors (PEComa): DVL2, SFPQ, TFE3.

Pleomorphic Sarcomas (Malignant Fibrous Histiocytoma): CITED2, MED12, PRDM10.

Rhabdoid Tumors: NCOA4, RET.

Rhabdomyosarcomas: CITED2, EWSR1, FLI1, FOXO1, NCOA1, NCOA2, PAX3, PAX7, SRF, TEAD1, VGLL2.

Solitary Fibrous Tumors: NAB2, STAT6.

Synovial Sarcomas: COL6A3, CSF1, S100A10, SS18, SS18L1, SSX1, SSX2, SSX4.

Undifferentiated; Unclassified or Other Sarcomas: ATF1, BCOR, CCNB3, CREM, ERG, ETV4, EWSR1, FGF1, FGFR1, FLI1, FN1, FOXO1, FUS, JAZF1, MAML3, PAX3, POU5F1, RUNX1, RUNX1T1, SUZ12.

Other Sarcomas: ALK, ASPSCR1, COL1A1, DDIT3, ETV6, EWSR1, FOXO1, FUS, GLI1, HMGA2, LMNA, MKL2, NPM1, NTRK1, NTRK3, PAX3, PAX7, PDGFB, PLAG1, SS18, SSX1, SSX2, TFE3, USP6, WT1.

Ordering Information

Product	Contents	Cat. no.
QIAseq Multimodal Panel (12)	Kit containing all reagents (except indexes) for multimodal (DNA and RNA) sequencing; fixed small panel for a total of 12 samples: 12 DNA and 12 RNA libraries	333932
QIAseq Multimodal Panel (96)	Kit containing all reagents (except indexes) for multimodal (DNA and RNA)	333935
QIAseq Multimodal HC Panel (12)	Kit containing all reagents (except indexes) for multimodal (DNA and RNA) sequencing; fixed high content (HC) panel for a total of 12 samples: 12 DNA and 12 RNA libraries	333942
QIAseq Multimodal HC Panel (96)	Kit containing all reagents (except indexes) for multimodal (DNA and RNA) sequencing; fixed high content (HC) panel for a total of 96 samples: 96 DNA and 96 RNA libraries	333945
QIAseq Multimodal Custom Panel (96)	Kit containing all reagents (except indexes) for multimodal (DNA and RNA) sequencing; custom panel for a total of 96 samples: 96 DNA and 96 RNA libraries	333955
QIAseq Multimodal Index I SW (12)	Box containing oligos, enough to process a total of 12 samples, for indexing up to a	333982
QIAseq Multimodal HT SW 96 UDI	Box containing oligos, enough to process a total of 96 samples, for indexing up to a total of 96 samples (96 for DNA and 96 for RNA) for multimodal panel sequencing on Illumina platforms. Note: For Separated Enrichment Workflow (SW) for Targeted Enrichment	333986
QIAseq Multimodal Index I (12)	Box containing oligos, enough to process a total of 12 samples, for indexing up to a total of 12 samples (12 for DNA and 12 for RNA libraries) for multimodal panel sequencing on Illumina platforms. Note: For Combined Enrichment Workflow (CW) for Targeted Enrichment	333962
QIAseq Multimodal HT CW 96 UDI	Box containing oligos, enough to process a total of 96 samples, for indexing up to a	333979
Related products		
QIAseq DNA QuantiMIZE Assay Kit	qPCR assays for optimizing amount of input DNA and PCR cycling conditions for targeted enrichment of FFPE DNA	333414
QIAamp® DNA Mini Kit (50)	For 50 DNA preps: 50 QIAamp Mini Spin Columns, QIAGEN Proteinase K, collection tubes (2 mL), reagents and buffers	51304

Product	Contents	Cat. no.
QIAamp Circulating Nucleic Acid Kit (50)	For 50 DNA preps: QIAamp Mini Columns, Tube Extenders (20 mL), QIAGEN Proteinase K, carrier RNA, buffers, VacConnectors, and collection tubes (1.5 mL and 2 mL)	55114
AllPrep DNA/RNA Mini Kit (50)	For 50 minipreps: AllPrep DNA Spin Columns, RNeasy Mini Spin Columns, collection tubes, RNase-free water, and buffers	80204
AllPrep DNA/RNA FFPE Kit (50)	50 RNeasy MinElute Spin Columns, 50 QIAamp MinElute Spin Columns, collection tubes, RNase-free reagents, and buffers	80234
PAXgene Blood DNA Kit (25)	Processing tubes and buffers for 25 preparations	761133
PAXgene Blood RNA Kit (50)	50 PAXgene Spin Columns, 50 PAXgene Shredder Spin Columns, processing tubes, RNase-Free DNase I, RNase-free reagents and buffers	Inquire

QIAseq Multimodal Panels are intended for molecular biology applications. These products are not intended for the diagnosis, prevention or treatment of a disease.

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