

QIAseq Targeted DNA Panels

Human Tumor Mutational Burden

Cat. Nos. 333512 DHS-6600Z-12 and 333515 DHS-6600Z-96

For ultrasensitive targeted next-generation sequencing (NGS) of DNA

The QIAseq Targeted DNA Human Tumor Mutational Burden Panel permits the sequencing of the whole coding region of 486 genes, covering 1,335,689 bases with 19,121 primers, to assess the number of passenger mutations carried by tumor samples. High tumor mutation burden (TMB) correlates with increased immunotherapy response. Thresholds vary across cancer types and therapies. Larger focused panels have been shown to be as effective in TMB determination as whole genome or whole exome sequencing. At the same time, this TMB panel also sequences key oncogenes and tumor suppressor genes, as well as genes involved in the anti-tumor immune response. For translational research applications, use this panel to sequence tumors prior to treatment and later correlate the observed response with the original TMB status. Such studies could also be performed retroactively, if FFPE sample were collected ahead of time. Also, use the TMB panel to further characterize tumors' mutation profile and to possibly determine if specific mutations also correlate with treatment response. Using digital DNA sequencing, the tumor mutation burden of cancer samples can be determined with this primer pool.

For further details, consult the *QIAseq Targeted DNA Panels Handbook*.

Shipping and storage

QIAseq Targeted DNA Panels (except Ligation Solution and QIAseq Beads) are shipped on dry ice and should be stored at -30 to -15°C in a constant-temperature freezer upon arrival. The QIAseq Beads and Ligation Solution are shipped on cold packs and should be stored at $2-8^{\circ}\text{C}$ except that the Ligation Solution should be removed immediately upon receipt and stored at -30 to -15°C in a constant-temperature freezer. The QIAseq Index kits are shipped on dry ice and should be stored at -30°C to -15°C upon arrival. When stored correctly, the QIAseq Index kits are good until the expiration date printed on the kit label.

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



Panel Contents

QIAseq Targeted DNA Panel Catalog Number	333512	333515
Number of samples	12	96
One pool of region-specific primers	75 μ l	600 μ l
Fragmentation Buffer, 10x	40 μ l	300 μ l
Fragmentation Enzyme Mix	75 μ l	600 μ l
FERA Solution	15 μ l	110 μ l
FG Solution	170 μ l	170 μ l
Ligation Buffer, 5x	160 μ l	1250 μ l
DNA Ligase	75 μ l	600 μ l
Ligation Solution	125 μ l	970 μ l
Nuclease-free Water	1.5 ml	10 ml
TEPCR Buffer, 5x	60 μ l	500 μ l
UPCR Buffer, 5x	60 μ l	500 μ l
HotStarTaq® DNA Polymerase	30 μ l	240 μ l
One bottle containing QIAseq Beads	10 ml	55 ml

Gene Table

Gene Symbol	Gene Symbol	Gene Symbol	Gene Symbol	Gene Symbol	Gene Symbol	Gene Symbol	Gene Symbol
ABCB9	ABL1	ABL2	ACE2	ACVR1B	AKT1	AKT2	AKT3
ALK	ALPK2	AMER1	APC	AR	ARAF	ARID1A	ARID1B
ARID2	ARID5B	ASXL1	ASXL2	ATM	ATR	ATRX	AURKA
AURKB	AXIN1	AXIN2	AXL	B2M	BAP1	BARD1	BCL2
BCL2L1	BCL6	BCOR	BCORL1	BLM	BRAF	BRCA1	BRCA2
BRD4	BRIP1	BTB	CALR	CANX	CARD11	CASP8	CBFB
CBL	CCND1	CCND2	CCND3	CCNE1	CD200	CD274	CD276
CD40	CD40LG	CD48	CD70	CD79A	CD79B	CD80	CD86
CDC27	CDC73	CDH1	CDK12	CDK4	CDK6	CDK8	CDKN1A
CDKN1B	CDKN2A	CDKN2B	CDKN2C	CEBPA	CHD4	CHEK1	CHEK2
CIC	CNKSR1	COL5A1	CREBBP	CRKL	CRLF2	CSF1R	CTCF
CTNNA1	CTNNB1	CTSB	CTSL	CTSS	CUL3	CUL4B	CUX1
CYLD	DAXX	DDR2	DDX3X	DICER1	DIS3	DMD	DNER
DNMT3A	DOT1L	EED	EGFR	EP300	EPCAM	EPHA3	EPHA5
EPHA7	EPHB1	ERAP1	ERAP2	ERBB2	ERBB3	ERBB4	ERCC1
ERCC2	ERCC3	ERCC4	ERCC5	ERG	ERRFI1	ESR1	ETV6
EW5R1	EXO1	EZH2	FAM46C	FANCA	FANCC	FANCD2	FANCE
FANCF	FANCG	FAS	FAT1	FBXW7	FGF19	FGF3	FGF4
FGFBP1	FGFR1	FGFR2	FGFR3	FGFR4	FH	FKBP9	FLCN
FLT1	FLT3	FLT4	FOXA1	FOXL2	FOXP1	FUBP1	GABRA6
GADD45A	GATA1	GATA2	GATA3	GATA4	GATA6	GLI1	GNAI1
GNAI3	GNAQ	GNA5	GRIN2A	GSK3B	H3-3A	H3C2	HERC1
HGF	HLA-A	HLA-B	HLA-C	HLA-E	HLA-F	HLA-G	HMGGB1
HMGNI	HNF1A	HRA5	HSP90AA1	ICOSLG	IDE	IDH1	IDH2
IFI30	IGF1R	IGF2	IGF2R	IKBKE	IKZF1	IL7R	INPP4B
IRF4	IRF6	IRS2	ITGAV	ITGB3	JAK1	JAK2	JAK3
JUN	KAT6A	KDM5A	KDM5C	KDM6A	KDR	KEAP1	KEL
KIT	KMT2A	KMT2C	KMT2D	KRAS	LGALS9	LGMM	LIG1
LIG3	LMO1	LNPEP	LPAR2	LRP1B	LZTR1	MAP2K1	MAP2K2
MAP2K4	MAP3K1	MCL1	MCM2	MCM3	MCM4	MCM5	MCM6
MCM7	MDM2	MDM4	MED12	MEF2B	MEN1	MET	MICA
MICB	MITF	MLH1	MLH3	MORC4	MPL	MR1	MRE11
MSH2	MSH3	MSH4	MSH5	MSH6	MTOR	MUC17	MUTYH
MYB	MYC	MYCL	MYCN	MYD88	MYOCD	NBN	NCOR1
NF1	NF2	NFE2L2	NFKB1A	NKX2-1	NOTCH1	NOTCH2	NOTCH3
NOTCH4	NPEPP5	NPM1	NRAS	NRD1	NSD1	NTRK1	NTRK2
NTRK3	PALB2	PARP1	PAX5	PBRM1	PCNA	PDCD1LG2	PDGFRA
PDGFRB	PDI3A	PDK1	PHF6	PIK3C2B	PIK3CA	PIK3CB	PIK3CG
PIK3R1	PIK3R2	PIM1	PLCG2	PMS1	PMS2	POLB	POLD1
POLD2	POLD3	POLD4	POLE	POLE4	PPP2R1A	PRDM1	PRKAR1A
PRKCG	PRKCI	PRKCZ	PRKDC	PRKN	PSMA1	PSMA2	PSMA3
PSMA4	PSMA5	PSMA6	PSMA7	PSMA8	PSMB1	PSMB10	PSMB11
PSMB2	PSMB3	PSMB4	PSMB5	PSMB6	PSMB7	PSMB8	PSMB9
PSMC1	PSMC2	PSMC3	PSMC4	PSMC5	PSMC6	PSMD1	PSMD10
PSMD11	PSMD12	PSMD13	PSMD14	PSMD2	PSMD3	PSMD4	PSMD5
PSMD6	PSMD7	PSMD8	PSMD9	PSME1	PSME2	PSME3	PSME4
PSMF1	PSMG1	PSMG2	PSMG3	PSMG4	PTCH1	PTEN	PTGS2
PTPN11	PTPRD	QKI	RAC1	RAD17	RAD18	RAD21	RAD50
RAD51	RAD51C	RAF1	RARA	RASA1	RB1	RBM10	REL
RET	RFC1	RFC2	RFC3	RFC4	RFC5	RHEB	RHOA
RICTOR	RIT1	RNASEH2A	RNF43	ROS1	RPA1	RPA2	RPA3
RPA4	RPTOR	RUNX1	RUNXIT1	SDHA	SDHB	SDHC	SDHD
SETD2	SF3B1	SIRT1	SMAD2	SMAD3	SMAD4	SMARCA4	SMARCB1
SMC1A	SMC3	SMO	SOC51	SOS1	SOX10	SOX17	SOX2
SOX9	SPEN	SPOP	SRC	SSBP1	STAG2	STAT3	STK11
SUFU	SUZ12	SYK	TAP1	TAP2	TAPBP	TAPBPL	TBX3

Gene Symbol	Gene Symbol	Gene Symbol	Gene Symbol	Gene Symbol	Gene Symbol	Gene Symbol	Gene Symbol
TCF7L2	TCPI1L2	TDG	TERC	TERT	TET2	TGFBR2	TNF
TNFAIP3	TNFRSF14	TNFRSF9	TNFSF14	TNFSF18	TNFSF4	TNFSF9	TNKS
TOP1	TP53	TP53BP1	TP73	TPP2	TREX1	TRRAP	TSC1
TSC2	TSHR	U2AF1	VEGFA	VEGFD	VHL	VSIR	VTCN1
WEE1	WT1	XPO1	XRCC5	ZFH3	ZNF217		

Functional Groupings

Oncogenes: ABL1, AKT1, AKT2, ALK, AR, BCL2, BRAF, CARD11, CBL, CDK4, CRKL, CRLF2, CSF1R, CTNNB1, DNMT3A, EGFR, ERBB2, EZH2, FGFR2, FGFR3, FLT3, FOXL2, GATA2, GNA11, GNAQ, GNAS, H3-3A, H3C2, HRAS, IDH1, IDH2, IKBKE, JAK1, JAK2, JAK3, KIT, KRAS, MAP2K1, MED12, MET, MPL, MYD88, NFE2L2, NRAS, PDGFRA, PIK3CA, PPP2R1A, PTPN11, REL, RET, SF3B1, SMO, SPOP, SRC, TSHR, U2AF1.

Tumor Suppressor Genes: ACVR1B, AMER1, APC, ARID1A, ARID1B, ARID2, ARID5B, ASXL1, ASXL2, ATM, ATRX, AXIN1, B2M, BAP1, BARD1, BCOR, BRCA1, BRCA2, CDC73, CDH1, CDKN2A, CEBPA, CIC, CREBBP, CYLD, DAXX, EP300, FAT1, FBXW7, FLCN, FOXP1, FUBP1, GATA1, GATA3, HNF1A, KDM5C, KDM6A, KMT2C, KMT2D, MAP3K1, MEN1, MLH1, NF1, NF2, NOTCH1, NOTCH2, NPM1, PAX5, PHF6, PIK3R1, PRDM1, PTCH1, PTEN, RB1, RNF43, RUNX1, SMAD2, SMAD4, SMARCA4, SMARCB1, SOCS1, SOX9, STAG2, STK11, TET2, TNFAIP3, TP53, TSC1, TSC2, VHL, WT1, ZFH3.

Angiogenesis: AKT1, AKT2, AKT3, CTNNB1, ERBB2, FGFR2, FLT1, FLT4, GATA2, KDR, NF1, NOTCH1, PIK3CA, PTEN, PTGS2, RUNX1, TNFAIP3, VEGFA, VEGFD, VHL.

Apoptosis: ABL1, ABL2, AKT1, AKT2, AKT3, APC, ARAF, AXIN1, BCL2, BCL2L1, BCL6, BRAF, CASP8, CBL, CDKN1A, CDKN2A, CTNNA1, CTNNB1, CYLD, DAXX, FAS, FLT3, FOXL2, GATA1, HGF, HRAS, MAP2K4, MCL1, MDM4, MYCN, NF1, NPM1, PIM1, PRKCI, PTEN, RAD21, RAD50, RAD51, RAF1, RB1, REL, SOX9, STK11, TNF, TNFAIP3, TP73, VHL, WT1.

Cell Adhesion Molecules: ABL1, ABL2, APC, CDH1, CTNNB1, DDR2, EGFR, EPCAM, ERBB2, FAT1, GATA1, JAK2, KDR, NF1, NF2, NOTCH1, PDGFRA, PTEN, PTGS2, PTPN11, RAC1, RET, RHOA, SRC, TSC1.

Cell Cycle: ABL1, ABL2, AKT1, AKT2, AKT3, APC, ATR, BLM, BRD4, CCND1, CCND2, CCND3, CCNE1, CDC27, CDC73, CDK12, CDK4, CDK6, CDK8, CDKN1A, CDKN1B, CDKN2A, CDKN2B, CDKN2C, CHEK1, CHEK2, CREBBP, CUX1, CYLD, FBXW7, FGFR2, HRAS, MYC, NPM1, PIM1, PTEN, PTPRD, RAD21, RAD50, RAD51, RB1, RHEB, RHOA, SMARCA4, SMARCB1, SMC1A, SMC3, SOX2, SOX9, STAG2, STK11, TNFAIP3, TP53, TP53BP1, TSC1, WEE1, XPO1, ZFH3.

DNA Damage & Repair: ABL1, ABL2, APC, ATM, ATR, ATRX, AXIN2, BRCA1, BRCA2, BRIPI, CDKN1A, CHEK1, CHEK2, EP300, EPCAM, ERCC1, ERCC2, ERCC3, ERCC4, ERCC5, EXO1, FANCA, FANCC, FANCD2, FANCE, FANCF, FANCG, GADD45A, HERC1, HMGB1, HMGN1, LIG1, LIG3, MCM2, MCM3, MCM4, MCM5, MCM6, MCM7, MDM2, MEN1, MLH1, MLH3, MRE11, MSH2, MSH3, MSH4, MSH5, MSH6, MTOR, MUTYH, NBN, NPM1, PALB2, PARP1, PCNA, PIK3C2B, PMS1, PMS2, POLB, POLD1, POLD2, POLD3, POLD4, POLE, POLE4, PRKCG, PRKCZ, PRKDC, RAD17, RAD18, RAD21, RAD50, RAD51, RAD51C, RFC1, RFC2, RFC3, RFC4, RFC5, RNASEH2A, RPA1, RPA2, RPA3, RPA4, SETD2, SIRT1, SMC1A, SMC3, SSBP1, STK11, TDG, TP53, TP53BP1, TP73, TREX1, TRRAP, XRCC5.

Epigenetics: ARID1A, ARID1B, ARID2, ARID5B, ASXL1, ASXL2, ATRX, AURKA, AURKB, BCOR, BCORL1, BRD4, CHD4, CTCF, DICER1, DNMT3A, DOT1L, EED, EZH2, FOXA1, H3-3A, H3C2, IKZF1, KAT6A, KDM5A, KDM5C, KDM6A, KMT2A, KMT2C, KMT2D, NCOR1, NSD1, PBRM1, PHF6, PRDM1, RARA, RUNX1T1, SMARCA4, SMARCB1, SPOP, SUZ12, TET2, TRRAP.

Hypoxia Signaling: CREBBP, EP300, NF1, PDK1, SMAD4, VHL.

Immune Response: ALK, B2M, BTK, CARD11, CD274, CD276, CD79A, CD79B, CREBBP, CRLF2, CYLD, EP300, FAM46C, IL7R, IRF4, JAK1, JAK2, JAK3, MAP2K1, MAP2K2, MAP3K1, MCL1, MYD88, NFKBIA, PAX5, PIK3CA, PIK3R1, PTEN, PTPN11, REL, TNFAIP3, TNFRSF14, TP53.

Inflammatory Response: CEBPA, CSF1R, JAK2, MYD88, PTGS2, REL.

Metabolism: AKT1, AKT2, AKT3, ASXL2, FH, FLCN, IDH1, IDH2, MTOR, PDK1, PTGS2, RICTOR, RPTOR, SDHA, SDHB, SDHC, SDHD, TNF, TSC2.

RNA Splicing: DDX3X, QKI, RBM10, SF3B1, SMC1A, U2AF1.

Signal Transduction: ACVR1B, AKT1, AKT2, AKT3, ALK, AMER1, APC, AXIN1, AXL, CBFB, CDKN1A, CNKSR1, CSF1R, CYLD, DDR2, DNER, EGFR, EPHA3, EPHA5, EPHA7, EPHB1, ERBB2, ERBB3, ERBB4, ERFF1, EWSR1, FBXW7, FGF19, FGF3, FGF4, FGFBP1, FGFR1, FGFR2, FGFR3, FGFR4, FLT1, FLT3, FLT4, GABRA6, GATA2, GLI1, GNA11, GNA13, GNAQ, GNAS, GRIN2A, GSK3B, HGF, HNF1A, IGF1R, IGF2, IGF2R, IKBKE, INPP4B, IRF6, IRS2, JAK1, JAK2, JAK3, KDR, KIT, KRAS, LMO1, LPAR2, MAP2K1, MAP2K2, MAP3K1, MED12, MET, NF1, NOTCH1, NOTCH2, NOTCH3, NOTCH4, NRAS, NTRK1, NTRK2, NTRK3, PDGFRA, PDGFRB, PIK3CA, PIK3CB, PIK3CG, PIK3R1, PIK3R2, PLCG2, PPP2R1A, PRKAR1A, PRKCI, PTCH1, PTEN, PTPN11, RAF1, RASA1, RET, RIT1, RNF43, ROS1, SMAD2, SMAD3, SMAD4, SMO, SOCS1, SOS1, SOX17, SOX2, SPEN, SRC, STAT3, SUFU, SYK, TCF7L2, TGFB2, TNF, TNKS, TRRAP, TSC2, TSHR.

Transcription Factors: AR, CEBPA, CIC, CUX1, ERG, ESR1, ETV6, FBXW7, FOXA1, FOXL2, FOXPI, FUBP1, GATA1, GATA2, GATA3, GATA4, GATA6, GLI1, HNF1A, IRF4, IRF6, JUN, KEAP1, LZTR1, MEF2B, MEN1, MITF, MYB, MYC, MYCL, MYCN, MYOCD, NFE2L2, NKX2-1, PAX5, RB1, RUNX1, SMAD2, SMAD3, SMAD4, SOX10, SOX17, SOX2, SOX9, TBX3, TCF7L2, TP53, TP73, WT1, ZFH3, ZNF217.

Ubiquitination: ASXL2, BAP1, BCOR, CDC27, CUL3, CUL4B, DAXX, MDM2, PRKN, RNF43.

Unfolded Protein Response: HSP90AA1, NFE2L2, NPM1.

Major Histocompatibility Complex Genes: B2M, HLA-A, HLA-B, HLA-C, HLA-E, HLA-F, HLA-G, MR1.

Antigen Presentation: ABCB9, ACE2, CALR, CANX, CTSB, CTSL, CTSS, ERAPI, ERAPI2, IDE, IFI30, LGMN, LNPEP, NPEPPS, NRD1, PDIA3, PSMA1, PSMA2, PSMA3, PSMA4, PSMA5, PSMA6, PSMA7, PSMA8, PSMB1, PSMB10, PSMB11, PSMB2, PSMB3, PSMB4, PSMB5, PSMB6, PSMB7, PSMB8, PSMB9, PSMC1, PSMC2, PSMC3, PSMC4, PSMC5, PSMC6, PSMD1, PSMD10, PSMD11, PSMD12, PSMD13, PSMD14, PSMD2, PSMD3, PSMD4, PSMD5, PSMD6, PSMD7, PSMD8, PSMD9, PSME1, PSME2, PSME3, PSME4, PSMF1, PSMG1, PSMG2, PSMG3, PSMG4, TAP1, TAP2, TAPBP, TAPBPL, TOPI, TPP2.

Immune Checkpoint Molecules: VSIR, CD200, CD274, CD276, CD40, CD40LG, CD48, CD70, CD80, CD86, ICOSLG, ITGAV, ITGB3, LGALS9, MICA, MICB, PDCD1LG2, TNFRSF14, TNFRSF9, TNFSF14, TNFSF18, TNFSF4, TNFSF9, VTCN1.

Other Cancer-Related Genes: ALPK2, COL5A1, DIS3, DMD, FKBP9, KEL, LRP1B, MORC4, MUC17, TCP11L2, TERC, TERT, TOPI.

Ordering Information

Product	Contents	Cat. no.
QIAseq Targeted DNA Panel (12)	ALL reagents (except indexes) for targeted DNA sequencing; fixed panel for 12 samples; less than 200 genes	333502
QIAseq Targeted DNA Panel (96)	ALL reagents (except indexes) for targeted DNA sequencing; fixed panel for 96 samples; less than 200 genes	333505
QIAseq Targeted DNA HC Panel (12)	ALL reagents (except indexes) for targeted DNA sequencing; fixed panel for 12 samples; more than 200 genes	333512
QIAseq Targeted DNA HC Panel (96)	ALL reagents (except indexes) for targeted DNA sequencing; fixed panel for 96 samples; more than 200 genes	333515
QIAseq Targeted DNA Custom Panel (96)	ALL reagents (except indexes) for targeted DNA sequencing; Custom panel for 96 samples	333525
QIAseq Targeted DNA Extended Panel (96)	ALL reagents (except indexes) for targeted DNA sequencing; Extended panel for 96 samples	333545
QIAseq Targeted DNA Booster Panel (96)	Pool of primers used in combination with either cataloged or custom panels	333535
QIAseq Unique Dual Indices		
QIAseq 96-Unique Dual Index Set A (384)	Box containing unique molecularly indexed adapters and primers, enough for a total of 384 samples, for indexing up to 96 samples for targeted panel sequencing on Illumina platforms; Set A (of A and B) required for multiplexing 192 samples in one run	333725
QIAseq 96-Unique Dual Index Set B (384)	Box containing unique molecularly indexed adapters and primers, enough for a total of 384 samples, for indexing up to 96 samples for targeted panel sequencing on Illumina platforms; Set A (of A and B) required for multiplexing 192 samples in one run	333735
QIAseq 8-Unique Dual Index Set A (48)	Box containing unique molecularly-indexed adapters and primers, enough for a total of 48 samples, for indexing up to 8 samples for targeted panel sequencing on Illumina platforms; Set A (of A and B) required for multiplexing 16 samples in one run	333715

Product	Contents	Cat. no.
QIAseq 8-Unique Dual Index Set B (48)	Box containing unique molecularly-indexed adapters and primers, enough for a total of 48 samples, for indexing up to 8 samples for targeted panel sequencing on Illumina platforms; Set A (of A and B) required for multiplexing 16 samples in one run	333716
QIAseq Combinatorial Dual Indices		
QIAseq 12-Index I (48)	Box containing molecularly indexed adapters and primers, enough for a total of 48 samples, for indexing up to 12 samples for targeted panel sequencing on Illumina platforms	333714
QIAseq 96-Index I Set A (384)	Box containing molecularly indexed adapters and primers, enough for a total of 384 samples, for indexing up to 96 samples for targeted panel sequencing on Illumina platforms; one of 4 sets required for multiplexing 384 samples	333727
QIAseq 96-Index I Set B (384)	Box containing molecularly indexed adapters and primers, enough for a total of 384 samples, for indexing up to 96 samples for targeted panel sequencing on Illumina platforms; 2 of 4 sets required for multiplexing 384 samples	333737
QIAseq 96-Index I Set C (384)	Box containing molecularly indexed adapters and primers, enough for a total of 384 samples, for indexing up to 96 samples for targeted panel sequencing on Illumina platforms; 3 of 4 sets required for multiplexing 384 samples	333747
QIAseq 96-Index I Set D (384)	Box containing molecularly indexed adapters and primers, enough for a total of 384 samples, for indexing up to 96 samples for targeted panel sequencing on Illumina platforms; 4 of 4 sets required for multiplexing 384 samples	333757
QIAseq Targeted DNA Indices for Ion Torrent platforms		
QIAseq 12-Index L (48)	Box containing molecularly-indexed adapters and primers, enough for a total of 48 samples – for indexing up to 12 samples for targeted panel sequencing on Ion Torrent platforms	333764
QIAseq 96-Index L (384)	Box containing molecularly-indexed adapters and primers in arrays, enough for a total of 384 samples – for indexing up to 96 samples for targeted panel sequencing on Ion Torrent platforms	333777

Product	Contents	Cat. no.
Related products		
QIAseq Library Quant Array Kit	Reagents for quantification of libraries prepared for Illumina or Ion Torrent platforms; array format	333304
QIAseq Library Quant Assay Kit	Reagents for quantification of libraries prepared for Illumina or Ion Torrent platforms; assay format	333314
QIAseq DNA QuantiMIZE Array Kit	qPCR arrays for optimizing amount of input DNA and PCR cycling conditions for targeted enrichment of FFPE DNA	333404
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
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
QIAamp DNA FFPE Tissue Kit	For 50 DNA preps: 50 QIAamp MinElute Columns, Proteinase K, Buffers, Collection Tubes (2 ml)	56404
QIAamp DNA FFPE Advanced Kit	For 50 preps: QIAamp UCP MinElute Columns, collection tubes, Deparaffinization Solution, Proteinase K, RNase A, RNase-free water and buffers	56604
QIAamp DNA FFPE UNG Kit	For 50 preps: Uracil-N-glycosylase, QIAamp UCP MinElute columns, collection tubes, Deparaffinization Solution, Proteinase K, RNase A, RNase-free water and buffers	56704

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Sample to Insight