

QIAseq Targeted RNAscan Panels

Human Solid Tumor

Cat. nos. 333602 FHS-002Z-12 and 333605 FHS-002Z-96

For constructing molecularly barcoded libraries from RNA for gene fusion analysis using digital NGS

The QIAseq Targeted RNAscan Human Solid Tumor Cancer Panel allows the use of next-generation sequencing using 101 primers to detect fusions to 14 genes frequently observed in solid tumor samples. Such frequently detected fusions are likely to be relevant or even important to solid tumor biology and may be used in translational research to classify samples with known phenotypes. Using the Catalogue of Somatic Mutations in Cancer (COSMIC), frequently detected fusions were collected for brain cancers, colorectal cancers, kidney cancers, liver cancers, lung cancers, lymphomas, sarcomas, skin cancers, thyroid cancers, urinary tract cancers, and other cancers. For the same cancer types, additional fusions were also collected from the Archer Quiver Database, requests and suggestions by QIAGEN KOLs and SMEs, and other peer-reviewed publications. Using digital DNA sequencing, fusions to a focused panel of genes relevant to solid tumors can be detected with this primer pool.

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

Shipping and storage

The QIAseq Targeted RNAscan Panel Kit is shipped with dry ice (Box 1) and must be stored at -30 to -15°C upon arrival. Box 2 (QIAseq Beads) is shipped on cold packs and should be stored at 4°C . When stored under these conditions and handled correctly, the product can be kept based on the expiration date on each component without reduction in performance.

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



Panel Contents

QIAseq Targeted RNAscan Panel Catalog Number	333602	333605
No. of preps	12	96
Box 1 of 2		
QIAseq Targeted RNAscan Panel	48 μ l	384 μ l
RP Primer	12 μ l	96 μ l
EZ Reverse Transcriptase	12 μ l	96 μ l
BC3 Buffer, 5x	24 μ l	192 μ l
RNase Inhibitor	12 μ l	96 μ l
RH RNase	12 μ l	96 μ l
dNTP	12 μ l	96 μ l
XC Buffer, 10x	24 μ l	192 μ l
BX Enzyme	12 μ l	96 μ l
ERA Enzyme	120 μ l	960 μ l
ERA Buffer, 10x	60 μ l	480 μ l
DNA Ligase	120 μ l	960 μ l
Ligation Buffer, 5x	240 μ l	2 x 960 μ l
QIAseq RNA Buffer	300 μ l	2 x 1200 μ l
Nuclease-Free Water	1.5 ml	2 x 1500 μ l
HotStarTaq® DNA Polymerase	22 μ l	180 μ l
Handbook	1	1
Box 2 of 2		
QIAseq Beads	10 ml	34 ml

Gene Table

Gene Symbol	Gene Symbol	Gene Symbol	Gene Symbol
ALK	CCDC6	CD74	EML4
FGFR3	KIF5B	NCOA4	NPM1
NTRK1	RET	ROS1	SLC34A2
TACC3	TPM3		

Functional Groupings

Brain Cancers

Gliomas: FGFR3, ROS1, TACC3.

Colorectal Cancers

Adenocarcinomas: NTRK1, TPM3.

Kidney Cancer

Carcinomas: ALK.

Liver Cancers

Cholangiocarcinomas: CCDC6, TACC3.

Lung Cancers

Acinar Adenocarcinomas: ALK, CD74, EML4, KIF5B, ROS1.

Adenocarcinomas: ALK, CCDC6, CD74, EML4, FGFR3, KIF5B, NCOA4, NTRK1, RET, ROS1, SLC34A2, TACC3, TPM3.

Bronchioloalveolar Adenocarcinomas: ALK, EML4, ROS1.

Inflammatory Myofibroblastic Tumors: ALK, CD74, EML4, ROS1, SLC34A2, TPM3.

Invasive Mucinous Adenocarcinomas: ALK, CD74, EML4.

Mixed Adenosquamous Carcinomas: ALK, EML4, KIF5B, RET.

Mucoepidermoid Carcinomas: ALK, EML4.

Non-Small Cell Carcinomas: ALK, CCDC6, CD74, EML4, KIF5B, NCOA4, RET, ROS1, SLC34A2, TPM3.

Non-Small Cell Lung Cancers (NSCLC): ALK, CCDC6, CD74, EML4, FGFR3, KIF5B, NCOA4, NTRK1, RET, ROS1, SLC34A2, TACC3, TPM3.

Squamous Cell Carcinomas (SCC): ALK, CD74, EML4, FGFR3, KIF5B, RET, TACC3.

Other Carcinomas: ALK, EML4.

Other Lung Cancers: CCDC6, CD74, FGFR3, KIF5B, NCOA4, NTRK1, RET, ROS1, SLC34A2, TACC3, TPM3.

Lymphomas

Anaplastic Large Cell Lymphomas: ALK, NPM1, TPM3.

Diffuse Large B Cell Lymphomas (DLBCL): ALK, NPM1.

Hodgkin Lymphomas: ALK, NPM1.

Inflammatory Myofibroblastic Tumors: ALK.

Peripheral T Cell Lymphomas: ALK, FGFR3, NPM1.

Other Lymphomas: ALK, NPM1.

Sarcomas

Angiosarcomas & Epithelioid Haemangioendotheliomas: ROS1.

Endometrial Stromal Sarcomas: ALK.

Fibrosarcomas: NTRK1.

Myofibroblastic Sarcomas: ALK, NTRK1, ROS1, TPM3.

Rhabdoid Tumors: NCOA4, RET.

Undifferentiated; Unclassified or Other Sarcomas: NPM1.

Skin Cancers

Atypical Spitzoid Tumors: ALK, TPM3.

Benign Melanocytic Nevus: ALK, KIF5B, RET, ROS1, TPM3.

Soft Tissue Cancers

Endometrial Stromal Sarcomas: ALK.

Inflammatory Myofibroblastic Tumors: ALK, TPM3.

Rhabdoid Tumors: NCOA4, RET.

Thyroid Cancers

Adenoma-Nodule-Goitre: CCDC6, NCOA4, RET.

Anaplastic Carcinomas: ALK, CCDC6, NCOA4, RET.

Hurthle Cell Carcinomas: CCDC6, NCOA4, RET.

Papillary Carcinomas: ALK, CCDC6, EML4, NCOA4, NTRK1, RET, TPM3.

Urinary Tract Cancers

Transitional Cell Carcinomas: FGFR3, TACC3.

Commercial Control Samples: ALK, CCDC6, CD74, EML4, FGFR3, KIF5B, NCOA4, NTRK1, RET, ROS1, SLC34A2, TACC3, TPM3.

Ordering Information

Product	Contents	Cat. no.
QIAseq Targeted RNAscan Panel (12)	Kit containing reagents for first strand synthesis, second strand synthesis, end-repair/A-addition, gene specific amplification and QIAseq Beads for targeted RNAscan sequencing, fixed panel for 12 samples	333602
QIAseq Targeted RNAscan HC Panel (12)	Kit containing reagents for first strand synthesis, second strand synthesis, end-repair/A-addition, gene specific amplification and QIAseq Beads for targeted RNAscan sequencing, fixed panel for 12 samples	333612
QIAseq Targeted RNAscan Panel (96)	Kit containing reagents for first strand synthesis, second strand synthesis, end-repair/A-addition, gene specific amplification and QIAseq Beads for targeted RNAscan sequencing, fixed panel for 96 samples	333605
QIAseq Targeted RNAscan HC Panel (96)	Kit containing reagents for first strand synthesis, second strand synthesis, end-repair/A-addition, gene specific amplification and QIAseq Beads for targeted RNAscan sequencing, fixed panel for 96 samples	333615
QIAseq Targeted RNAscan Custom Panel	Kit containing reagents for first strand synthesis, second strand synthesis, end-repair/A-addition, gene specific amplification and QIAseq Beads for targeted RNAscan sequencing, custom panel for 96 samples	333625
QIAseq 12-Index I (48)	Box containing oligos, 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 oligos, enough for a total of 384 samples, for indexing up to 96 samples for targeted panel sequencing on Illumina platforms; one of four sets	333727
QIAseq 96-Index I Set B (384)	Box containing oligos, enough for a total of 384 samples, for indexing up to 96 samples for targeted panel sequencing on Illumina platforms; two of four sets	333737
QIAseq 96-Index I Set C (384)	Box containing oligos, enough for a total of 384 samples, for indexing up to 96 samples for targeted panel sequencing on Illumina platforms; three of four sets required for multiplexing 384 samples	333747

Product	Contents	Cat. no.
QIAseq 96-Index I Set D (384)	Box containing oligos, enough for a total of 384 samples, for indexing up to 96 samples for targeted panel sequencing on Illumina platforms; four of four sets required for multiplexing 384 samples	333757
QIAseq 12-Index L (48)	Box containing oligos, 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 oligos in arrays, enough for a total of 384 samples, for indexing up to 96 samples for targeted panel sequencing on Ion Torrent platforms	333777
Related products		
Human XpressRef Universal Total RNA	2 tubes each containing 100 µg human RNA at 1 mg/ml	338112
RNeasy Mini Kit (50)	50 RNeasy Mini Spin Columns, Collection Tubes (1.5 ml and 2 ml), RNase-free reagents and buffers	74104
RNeasy FFPE Kit (50)	50 RNeasy MinElute® Spin Columns, Collection Tubes, Proteinase K, RNase-Free DNase I, DNase Booster Buffer, RNase-free buffers, Nuclease-free water	73504
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; to be used in conjunction with PAXgene Blood RNA Tubes	762174
RNeasy Microarray Tissue Mini Kit (50)	RNeasy Mini Spin Columns, Collection Tubes, QIAzol® Lysis Reagent, RNase-free reagents and buffers	73304
RNeasy Micro Kit (50)	50 RNeasy MinElute Spin Columns, Collection Tubes (1.5 ml and 2 ml), RNase-free DNase I, Carrier RNA, RNase-free reagents and buffers	74004
QIAamp® RNA Blood Mini Kit (50)	50 QIAamp Mini Spin Columns, 50 QIAshredder Spin Columns, Collection Tubes (1.5 ml and 2 ml), RNase-free reagents and buffers	52304

QIAseq Targeted RNAseq 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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Sample to Insight