

QIAseq™ Immune Repertoire RNA Library Kit T-Cell Receptor (12)

Cat. no. 333705

**IMHS-001Z-12
IMMM-001Z-12**

**For constructing Targeted RNAseq libraries for T-cell receptor
alpha, beta, gamma & delta**

The QIAseq Immune Repertoire RNA Library Kit integrates unique molecular index (UMI) technology into a gene-specific, single primer extension (SPE)-based target enrichment process. This kit enables sensitive detection of the human or mouse T-cell receptor alpha, beta, gamma and delta V(D)J region, include the CDR1, CDR2 and CDR3 regions.

By using UMIs, the QIAseq Immune Repertoire RNA Library Kit Panel eliminates PCR duplicates, and minimizes sequencing artifacts that may arise during the library preparation process or during the sequencing run. This ensures accurate and unbiased quantification of the number of molecules captured and sequenced.

For further details, consult the QIAseq Immune Repertoire RNA Library Handbook.

Shipping and storage

QIAseq Immune Repertoire RNA Library Kit are shipped in two boxes: box 1 of 2 is shipped on dry ice and box 2 of 2 is shipped on gel pack. For long-term storage, keep the contents of box 1 at -20°C and the contents of box 2 at 4°C. If stored under these conditions, the panels are stable for 6 months after receipt.

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



Kit Contents

Contents for Panel IMHS-001Z-12		Volume
Box 1		
QIAseq T-cell Receptor Panel (Human/ 12 samples)		48 µl
TCR RT Primer		12 µl
EZ Reverse Transcriptase		12 µl
5x Buffer BC3		24 µl
RI		12 µl
RH RNase		12 ml
dNTP		12 µl
10x Buffer XC		24 µl
BX Enzyme		12 µl
ERA Enzyme		120 µl
10x Buffer ERA		60 µl
DNA Ligase		120 µl
5x Ligation Buffer		240 µl
QIAseq RNA Buffer		300 µl
Nuclease-free water		1.5 ml
HotStarTaq® DNA Polymerase		30 µl
Ligation Solution		2 x 125µL
Box 2		
QIAseq Beads		7.0 ml

Kit Contents

Contents for Panel IMMM-001Z-12		Volume
Box 1		
QIAseq T-cell Receptor Panel (Mouse/ 12 samples)		48 µl
TCR RT Primer		12 µl
EZ Reverse Transcriptase		12 µl
5x Buffer BC3		24 µl
RI		12 µl
RH RNase		12 ml
dNTP		12 µl
10x Buffer XC		24 µl
BX Enzyme		12 µl
ERA Enzyme		120 µl
10x Buffer ERA		60 µl
DNA Ligase		120 µl
5x Ligation Buffer		240 µl
QIAseq RNA Buffer		300 µl
Nuclease-free water		1.5 ml
HotStarTaq® DNA Polymerase		30 µl
Ligation Solution		2 x 125µL
Box 2		
QIAseq Beads		7.0 ml



Ordering Information

Product	Contents	Cat. no.
QIAseq Immune Repertoire RNA Library Kit	Kit containing ALL reagents (except indexes) for targeted sequencing of T-cell receptor alpha, beta gamma & delta VDJ region. Available for human or mouse samples in 12 or 96 sample sizes.	333705
Related Products		
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 required for multiplexing 384 samples	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 required for multiplexing 384 samples	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
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 Immune Repertoire RNA Library Kit are intended for molecular biology applications. These products are not intended for the diagnosis, prevention or treatment of a disease.

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit handbook or user manual. QIAGEN kit handbooks and user manuals are available at www.qiagen.com or can be requested from QIAGEN Technical Services or your local distributor.

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