

# QIAseq Targeted RNA Panels

## Mouse Extracellular Matrix & Cell Adhesion Molecules

Cat. no. 333002 RMM-004Z-12

**For gene expression profiling by RNA sequencing with laboratory-verified primer sets**

The Mouse Extracellular Matrix & Cell Adhesion Molecules QIAseq Targeted RNA Panel profiles the expression of genes important for cell-cell and cell-matrix interactions. Cells attach to proteoglycans and glycoproteins (such as fibronectin, laminin and collagen) in the extracellular matrix (ECM) substratum via adhesion molecules on their cell surface to define tissue shape, structure and function. The making and breaking of cell-cell and cell-ECM contacts are critical steps in normal processes such as cell growth, division, differentiation and migration. Disease states (metastasis, rheumatoid arthritis and cardiovascular and central nervous system disorders) and pathophysiological processes (wound healing and inflammation) also involve ECM remodeling and changes in the classes of cell adhesion molecules expressed on cell surfaces. This panel contains ECM proteins including basement membrane constituents, collagens, and other genes defining ECM structure. Matrix and other metalloproteinases that remodel the ECM as well as their inhibitors are also represented. This panel also includes integrins, selectins, cell-adhesion molecule family members (ICAM, ECAM, NCAM, PECAM and VCAM), and other genes important to cell adhesion and cytoskeleton bridging such as the catenins. Using digital RNA sequencing, the expression of a focused panel of genes related to cell adhesion and the ECM may be analyzed with this primer pool.

For further details, consult the *QIAseq Targeted RNA Panel Handbook*.

Panel is enough for 12 samples.

### Shipping and storage

QIAseq Targeted RNA Panels are shipped in two boxes: box 1 of 2 is shipped on dry ice and box 2 of 2 is shipped on blue ice. For long-term storage, keep the contents of box 1 at  $-20^{\circ}\text{C}$  and the contents of box 2 at  $4^{\circ}\text{C}$ . If stored under these conditions, the panels are stable for 8 months after receipt.

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



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Sample to Insight

## Panel Contents

Contents	Volume
RNase-free water	1000 $\mu$ l
Control P2	12 $\mu$ l
Buffer GE	24 $\mu$ l
RE3 Reverse Transcriptase Mix	24 $\mu$ l
5x Buffer BC3	48 $\mu$ l
QIAseq RNA 5x Buffer	300 $\mu$ l
HotStarTaq DNA Polymerase (6U / $\mu$ l)	60 $\mu$ l
RS2 Primer (10 $\mu$ M)	20 $\mu$ l
BC Primer Mix	80 $\mu$ l
LA Primer Mix	80 $\mu$ l
QIAseq Beads	4 ml

## Gene table: QIAseq Targeted RNA Panels

Gene symbol	Gene symbol	Gene symbol	Gene symbol
Adam10	Adam11	Adam12	Adam15
Adam17	Adam18	Adam19	Adam2
Adam20	Adam21	Adam22	Adam23
Adam28	Adam29	Adam30	Adam32
Adam33	Adam7	Adam8	Adam9
Adamdec1	Adamts1	Adamts10	Adamts12
Adamts13	Adamts14	Adamts15	Adamts16
Adamts17	Adamts18	Adamts19	Adamts2
Adamts20	Adamts3	Adamts4	Adamts5
Adamts6	Adamts7	Adamts8	Adamts9
Adamtsl1	Adamtsl2	Adamtsl3	Adamtsl4
Adamtsl5	Adgre5	Alcam	Amigo2
Aspn	Astn1	Bcam	Bcan
Bgn	Cadm1	Cadm3	Cd151
Cd164	Cd209d	Cd226	Cd34
Cd36	Cd44	Cd84	Cd9
Cd93	Cd99l2	Cdh1	Cdh10
Cdh11	Cdh12	Cdh13	Cdh15
Cdh16	Cdh17	Cdh18	Cdh19
Cdh2	Cdh20	Cdh22	Cdh23
Cdh24	Cdh26	Cdh3	Cdh4
Cdh5	Cdh6	Cdh7	Cdh8
Cdh9	Cdhr2	Ceacam1	Ceacam5
Celsr2	Celsr3	Cercam	Chl1
Clec16a	Clec1a	Clec2d	Clec3b
Clec4e	Clec7a	Cma1	Ctnl1

Gene symbol	Gene symbol	Gene symbol	Gene symbol
Cntn4	Col10a1	Col11a1	Col11a2
Col12a1	Col13a1	Col14a1	Col15a1
Col16a1	Col17a1	Col18a1	Col19a1
Col1a1	Col1a2	Col20a1	Col22a1
Col23a1	Col24a1	Col25a1	Col26a1
Col27a1	Col28a1	Col2a1	Col3a1
Col4a1	Col4a2	Col4a3	Col4a4
Col4a5	Col4a6	Col5a1	Col5a2
Col5a3	Col6a1	Col6a2	Col6a3
Col6a5	Col6a6	Col7a1	Col8a1
Col8a2	Col9a1	Col9a2	Col9a3
Comp	Crtac1	Ctgf	Ctnna1
Ctnna2	Ctnnb1	Dchs1	Dcn
Dpt	Ecm1	Ecm2	Edil3
Efemp1	Efemp2	Emilin1	Entpd1
Fbln1	Fbln2	Fbln5	Fbn1
Fbn2	Fbrsl1	Flrt1	Flrt2
Flrt3	Fmod	Fn1	Frem2
Gpc1	Gpc3	Gpc4	Gpc5
Habp2	Habp4	Hapln1	Hapln3
Hc	Hspg2	Icam1	Icam2
Icam4	Icam5	Itga1	Itga10
Itga11	Itga2	Itga2b	Itga3
Itga4	Itga5	Itga6	Itga7
Itga8	Itga9	Itgad	Itgae
Itgal	Itgam	Itgav	Itgax
Itgb1	Itgb2	Itgb3	Itgb5
Itgb6	Itgb7	Itgb8	Itgb11
L1cam	Lama1	Lama2	Lama3
Lama4	Lama5	Lamb1	Lamb2
Lamb3	Lamc1	Lgals1	Lgals3
Lgals4	Lgals8	Lgals9	Lox
Loxl1	Loxl2	Lum	Lyve1
Madcam1	Maec	Mag	Map3k2
Mcam	Megf10	Mfap1b	Mfap2
Mfap3	Mfap4	Mfap5	Mmp10
Mmp11	Mmp12	Mmp13	Mmp14
Mmp15	Mmp16	Mmp17	Mmp19
Mmp1a	Mmp2	Mmp20	Mmp21
Mmp23	Mmp24	Mmp25	Mmp27
Mmp28	Mmp3	Mmp7	Mmp8
Mmp9	Mmrn1	Mmrn2	Muc1
Muc13	Muc15	Muc6	Ncam1
Ncam2	Ncan	Nfasc	Nid1



## Ordering Information

Product	Contents	Cat. no.
QIAseq Targeted RNA Panel (12)	Kit containing reagents for first strand synthesis, molecular barcoding, gene-specific amplification and QIAseq Beads for targeted RNA sequencing; fixed panel for 12 samples	333002
QIAseq Targeted RNA Panel (96)	Kit containing reagents for first strand synthesis, molecular barcoding, gene-specific amplification and QIAseq Beads for targeted RNA sequencing; fixed panel for 96 samples	333005
QIAseq Targeted RNA Extended Panel (12)	Kit containing reagents for first strand synthesis, molecular barcoding, gene-specific amplification and QIAseq Beads for targeted RNA sequencing; extended panel for 12 samples	333012
QIAseq Targeted RNA Extended Panel (96)	Kit containing reagents for first strand synthesis, molecular barcoding, gene-specific amplification and QIAseq Beads for targeted RNA sequencing; extended panel for 96 samples	333015
QIAseq Targeted RNA Custom Panel (12)	Kit containing reagents for first strand synthesis, molecular barcoding, gene-specific amplification and QIAseq Beads for targeted RNA sequencing; custom panel for 12 samples	333022
QIAseq Targeted RNA Custom Panel (96)	Kit containing reagents for first strand synthesis, molecular barcoding, gene-specific amplification and QIAseq Beads for targeted RNA sequencing; extended panel for 96 samples	333025
QIAseq Targeted RNA Custom Panel (384)	Kit containing reagents for first strand synthesis, molecular barcoding, gene-specific amplification and QIAseq Beads for targeted RNA sequencing; extended panel for 384 samples	333027
QIAseq Targeted RNA 12-index I (48)	Box containing oligos, enough for a total of 48 samples (for indexing up to 12 samples per run) and Custom Sequencing Primer for targeted RNA sequencing on Illumina platforms	333114
QIAseq Targeted RNA 96-index I (384)	Box containing oligos, enough for a total of 384 samples (for indexing up to 96 samples per run) and Custom Sequencing Primer for targeted RNA sequencing on Illumina platforms	333117
QIAseq Targeted RNA 96-index HT I (384)	Box containing oligos in arrays, enough for a total of 384 samples (for indexing up to 96 samples per	333127

Product	Contents	Cat. no.
	run) and Custom Sequencing Primer for targeted RNA sequencing on Illumina platforms	
QIAseq Targeted RNA 12-index L (48)	Box containing oligos, enough for a total of 48 samples (for indexing up to 12 samples per run) for targeted RNA sequencing on Ion Torrent platforms	333214
QIAseq Targeted RNA 96-index HT L (384)	Box containing oligos, enough for a total of 384 samples (for indexing up to 96 samples per run) for targeted RNA sequencing on Ion Torrent platforms	333217

QIAseq Targeted RNA Panels 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](http://www.qiagen.com) or can be requested from QIAGEN Technical Services or your local distributor.

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Sample to Insight