

QIAseq Targeted RNA Panels

Human Extracellular Matrix & Cell Adhesion Molecules

Cat. no. 333002 RHS-004Z-12

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

The Human Extracellular Matrix & Cell Adhesion Molecules QIAseq targeted RNA panel profiles the expression of 421 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°C and the contents of box 2 at 4°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.



Sample to Insight

Panel Contents

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

Gene table: QIAseq Targeted RNA Panels

Gene symbol	Gene symbol	Gene symbol	Gene symbol
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
C16orf13	CADM1	CADM3	CD151
CD164	CD226	CD34	CD36
CD44	CD58	CD84	CD9
CD93	CD99	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
CEACAM4	CEACAM5	CEACAM6	CELSR2
CELSR3	CERCAM	CHL1	CLEC16A
CLEC1A	CLEC2B	CLEC2D	CLEC3B

Gene symbol	Gene symbol	Gene symbol	Gene symbol
CLEC4E	CLEC4M	CLEC7A	CMA1
CNTN1	CNTN4	COL10A1	COL11A1
COL11A2	COL12A1	COL13A1	COL14A1
COL15A1	COL16A1	COL17A1	COL18A1
COL19A1	COL1A1	COL1A2	COL20A1
COL21A1	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
CTNNA1	CTNNB1	DCHS1	DCN
DPT	ECM1	ECM2	EDIL3
EFEMP1	EFEMP2	FBLN1	FBLN2
FBLN5	FBN1	FBN2	FBRSL1
FLRT1	FLRT2	FLRT3	FMOD
FN1	FREM2	GPC1	GPC3
GPC4	GPC5	HABP2	HABP4
HAPLN3	HAS1	HSPG2	ICAM1
ICAM2	ICAM3	ICAM4	ICAM5
ITGA1	ITGA10	ITGA11	ITGA2
ITGA2B	ITGA3	ITGA4	ITGA5
ITGA6	ITGA7	ITGA8	ITGA9
ITGAD	ITGAE	ITGAL	ITGAM
ITGAV	ITGAX	ITGB1	ITGB2
ITGB3	ITGB4	ITGB5	ITGB6
ITGB7	ITGB8	ITGBL1	KIAA0586
L1CAM	LAMA1	LAMA2	LAMA3
LAMA4	LAMA5	LAMB1	LAMB2
LAMB3	LAMC1	LGALS1	LGALS14
LGALS3	LGALS4	LGALS8	LGALS9
LOX	LOXL1	LOXL2	LUM
LYVE1	MADCAM1	MAEA	MAG
MAP3K2	MCAM	MEGF10	MFAP1
MFAP2	MFAP3	MFAP4	MFAP5
MMP1	MMP10	MMP11	MMP12
MMP13	MMP14	MMP15	MMP16
MMP17	MMP19	MMP2	MMP20
MMP21	MMP23B	MMP24	MMP25
MMP26	MMP27	MMP28	MMP3
MMP7	MMP8	MMP9	MMRN1
MMRN2	MUC1	MUC13	MUC15

Gene symbol	Gene symbol	Gene symbol	Gene symbol
MUC3A	MUC6	NCAM1	NCAM2
NCAN	NFASC	NID1	NID2
NLGN1	NLGN3	NLGN4X	NPTN
NRCAM	NRXN1	NRXN2	P3H1
P4HA1	PCDH1	PCDH11X	PCDH11Y
PCDH17	PCDH18	PCDH19	PCDH7
PCDH8	PCDH9	PCDHA1	PCDHA10
PCDHA11	PCDHA12	PCDHA13	PCDHA2
PCDHA3	PCDHA4	PCDHA5	PCDHA6
PCDHA7	PCDHA8	PCDHA9	PCDHAC1
PCDHAC2	PCDHGA1	PCDHGA10	PCDHGA11
PCDHGA12	PCDHGA2	PCDHGA3	PCDHGA4
PCDHGA5	PCDHGA6	PCDHGA7	PCDHGA8
PCDHGA9	PCDHGB1	PCDHGB2	PCDHGB3
PCDHGB4	PCDHGB5	PCDHGB6	PCDHGB7
PCDHGC3	PCDHGC4	PCDHGC5	PCOLCE
PECAM1	PLAU	PLOD1	PLOD2
PLOD3	POSTN	PPIE	PPIL2
PRELP	PVR	PXDN	RELN
RFX1	SELE	SELL	SELP
SELPLG	SERPINA1	SERPINA10	SERPINA11
SERPINA12	SERPINA3	SERPINA4	SERPINA5
SERPINA6	SERPINA7	SERPINA9	SERPINB1
SERPINB10	SERPINB12	SERPINB13	SERPINB2
SERPINB3	SERPINB4	SERPINB5	SERPINB6
SERPINB7	SERPINB8	SERPINB9	SERPINC1
SERPIND1	SERPINE1	SERPINE2	SERPINE3
SERPINF1	SERPINF2	SERPING1	SERPINH1
SERPINI1	SERPINI2	SGCA	SGCB
SGCD	SGCE	SGCG	SGCZ
SIGLEC1	SIGLEC11	SIGLEC6	SIGLEC7
SMOC2	SPARC	SPOCK1	SPOCK2
SPOCK3	SSPN	STAB1	TGFBI
THAP3	THBS1	THBS2	THBS3
THBS4	THSD1	THSD4	THSD7A
THSD7B	TIMP1	TIMP2	TIMP3
TIMP4	TNC	TNXB	VCAM1
VCAN	VTN	ZBTB22	ZNF446
_GDC_CONTROL_06_	_GDC_CONTROL_07_	_GDC_CONTROL_14_	_GDC_CONTROL_21_
_GDC_CONTROL_24_	_GDC_CONTROL_32_		

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 or can be requested from QIAGEN Technical Services or your local distributor.

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Sample to Insight