

QuantiNova® LNA® Probe PCR Focus Panels (Rotor-Gene® Format)

Mouse TGFb Signaling Targets

Cat. no. 249955 UPMM-235ZR

For study focus gene expression analysis

Shipping and storage

QuantiNova LNA Probe PCR Focus Panels are shipped at room temperature. Immediately upon receipt, they should be stored protected from light at 2–8°C for short term storage or at –30°C to –15°C for long time storage. Under these conditions, all components are stable for at least 12 months.

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

For optimal performance, QuantiNova LNA Probe PCR Focus Panels should be used together with the QuantiNova Reverse Transcription Kit for cDNA synthesis and the QuantiNova Probe PCR Kit (Mastermix) for PCR.

Panel layout (Rotor-Gene): QuantiNova LNA Probe PCR Focus Panel

The 96 real-time assays in the Rotor-Gene format are located in wells 1–96 of the Rotor-Disc® (plate A1–A12=Rotor-Disc 1–12, plate B1–B12=Rotor-Disc 13–24, etc.). To maintain data analysis compatibility, wells 97–100 do not contain real-time assays but will contain master mix to account for weight balance. Refer to the QuantiNova LNA Probe PCR Handbook at www.qiagen.com for further details.

	1	2	3	4	5	6	7	8	9	10	11	12
A	Acta2	Acvr1	Acvr1	Agt	Aip1	Ar	Atf3	Atf4	Bach1	Bcl2l1	Bdnf	Bhlhe40
B	Brd2	Cdc6	Cdkn1b	Cebpb	Creb1	Crebbp	Cryab	Cttnb1	Dnaja1	E2f4	Emp1	Eng
C	Ep300	Ephb2	Fn1	Fos	Furin	Gadd45b	Gli2	Gli2i	Herpud1	Hes1	Hey1	Hmox1
D	Id1	Id2	Id3	Ifrd1	Il10	Klf10	Map3k7	Mapk14	Mapk8	Mbd1	Mmp2	Msx2
E	Myc	Myd1	Nf1b	Nfkb1a	Notch1	Pdgfra	Plg	Ppara	Ptgs2	Phih1	Plk2	Plk2b
F	Rad21	Rara	Rbl1	Rhoa	Rhob	Rux1	S100a8	Serpine1	Shh	Smad1	Smad3	Smad5
G	Smad6	Snai1	Sox4	Sp1	Srebf2	Tgfb2	Tgfb2	Thbs1	Tnfrsf10	Txnip	Vegfa	Wfs1
H	Actb	B2m	Gapdh	Gusb	Hsp90ab1	MGDC	QIC	QIC	QIC	PPC	PPC	PPC

Gene table: QuantiNova LNA Probe PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	UPFM065194 2	ENSMUST00000039631.9	Acta2	ENSMUSG0000035783	actin, alpha 2, smooth muscle, aorta Source MGI Symbol Acc MGI 87909
A02	UPFM071633 1	ENSMUST00000112599.7	Acvr1	ENSMUSG0000026836	activin A receptor, type 1 Source MGI Symbol Acc MGI 87911
A03	UPFM068818 0	ENSMUST00000121718.7	Acvr1l	ENSMUSG0000000530	activin A receptor, type II-like 1 Source MGI Symbol Acc MGI 1338946
A04	UPFM088419 7	ENSMUST00000063278.6	Agt	ENSMUSG0000031980	angiotensinogen (serpin peptidase inhibitor, clade A, member 8) Source MGI Symbol Acc MGI 87963
A05	UPFM070901 1	ENSMUST00000048207.9	Aipl1	ENSMUSG0000040554	aryl hydrocarbon receptor-interacting protein-like 1 Source MGI Symbol Acc MGI 2148800
A06	UPFM078422 2	ENSMUST00000052837.8	Ar	ENSMUSG0000046532	androgen receptor Source MGI Symbol Acc MGI 88064
A07	UPFM099470 5	ENSMUST00000027941.13	Atf3	ENSMUSG0000026628	activating transcription factor 3 Source MGI Symbol Acc MGI 109384
A08	UPFM075251 7	ENSMUST000000229828.1	Atf4	ENSMUSG0000042406	activating transcription factor 4 Source MGI Symbol Acc MGI 88096
A09	UPFM094245 4	ENSMUST00000156958.1	Bach1	ENSMUSG0000025612	BTB and CNC homology 1, basic leucine zipper transcription factor 1 Source MGI Symbol Acc MGI 894680
A10	UPFM066341 1	ENSMUST00000156688.1	Bcl2l1	ENSMUSG0000007659	BCL2-like 1 Source MGI Symbol Acc MGI 88139
A11	UPFM085815 5	ENSMUST00000111049.8	Bdnf	ENSMUSG0000048482	brain derived neurotrophic factor Source MGI Symbol Acc MGI 88145
A12	UPFM084168 9	ENSMUST00000163617.1	Bhlhe40	ENSMUSG0000030103	basic helix-loop-helix family, member e40 Source MGI Symbol Acc MGI 1097714
B01	UPFM072260 9	ENSMUST00000142570.1	Brd2	ENSMUSG0000024335	bromodomain containing 2 Source MGI Symbol Acc MGI 99495
B02	UPFM101037 5	ENSMUST00000135862.1	Cdc6	ENSMUSG0000017499	cell division cycle 6 Source MGI Symbol Acc MGI 1345150
B03	UPFM072528 3	ENSMUST00000204807.1	Cdkn1b	ENSMUSG0000003031	cyclin-dependent kinase inhibitor 1B Source MGI Symbol Acc MGI 104565
B04	UPFM117294 0	ENSMUST00000070642.3	Cebpb	ENSMUSG0000056501	CCAAT/enhancer binding protein (C/EBP), beta Source MGI Symbol Acc MGI 88373
B05	UPFM085293 8	ENSMUST00000087366.10	Creb1	ENSMUSG0000025958	cAMP responsive element binding protein 1 Source MGI Symbol Acc MGI 88494
B06	UPFM086770 7	ENSMUST00000206098.1	Crebbp	ENSMUSG0000022521	CREB binding protein Source MGI Symbol Acc MGI 1098280
B07	UPFM097354 9	ENSMUST00000214962.1	Cryab	ENSMUSG0000032060	crystallin, alpha B Source MGI Symbol Acc MGI 88516
B08	UPFM098586 3	ENSMUST00000154356.7	Ctnnb1	ENSMUSG0000006932	catenin (cadherin associated protein), beta 1 Source MGI Symbol Acc MGI 88276
B09	UPFM074054 7	ENSMUST00000148976.1	Dnaja1	ENSMUSG0000028410	DnaJ heat shock protein family (Hsp40) member A1 Source MGI Symbol Acc MGI 1270129
B10	UPFM064941 5	ENSMUST00000015003.9	E2f4	ENSMUSG0000014859	E2F transcription factor 4 Source MGI Symbol Acc MGI 103012
B11	UPFM092819 4	ENSMUST00000111907.1	Emp1	ENSMUSG0000030208	epithelial membrane protein 1 Source MGI Symbol Acc MGI 107941
B12	UPFM062460 8	ENSMUST00000009705.13	Eng	ENSMUSG0000026814	endoglin Source MGI Symbol Acc MGI 95392
C01	UPFM063958 2	ENSMUST00000185967.2	Ep300	ENSMUSG0000055024	E1A binding protein p300 Source MGI Symbol Acc MGI 1276116
C02	UPFM066979 1	ENSMUST00000105845.8	Ephb2	ENSMUSG0000028664	Eph receptor B2 Source MGI Symbol Acc MGI 99611
C03	UPFM086511 0	ENSMUST00000188894.6	Fn1	ENSMUSG0000026193	fibronectin 1 Source MGI Symbol Acc MGI 95566
C04	UPFM076456 3	ENSMUST00000136122.7	Fos	ENSMUSG0000021250	FBJ osteosarcoma oncogene Source MGI Symbol Acc MGI 95574
C05	UPFM075416 6	ENSMUST00000206352.1	Furin	ENSMUSG0000030530	furin (paired basic amino acid cleaving enzyme) Source MGI Symbol Acc MGI 97513
C06	UPFM085248 2	ENSMUST00000220246.1	Gadd45b	ENSMUSG0000015312	growth arrest and DNA-damage-inducible 45 beta Source MGI Symbol Acc MGI 107776
C07	UPFM068465 5	ENSMUST00000161056.7	Gli2	ENSMUSG0000048402	GLI-Kruppel family member GLI2 Source MGI Symbol Acc MGI 95728
C08	UPFM097396 6	ENSMUST00000059042.13	Gtf2i	ENSMUSG0000060261	general transcription factor II I Source MGI Symbol Acc MGI 1202722
C09	UPFM095065 1	ENSMUST00000161576.7	Herpud1	ENSMUSG0000031770	homocysteine-inducible, endoplasmic reticulum stress-inducible, ubiquitin-like domain member 1 Source MGI Symbol Acc MGI 1927406
C10	UPFM064713 7	ENSMUST00000160592.2	Hes1	ENSMUSG0000022528	hes family bHLH transcription factor 1 Source MGI Symbol Acc MGI 104853
	UPFM100319	ENSMUST000000		ENSMUSG00	hairly/enhancer-of-split related with YRPW motif 1 Source MGI Symbol Acc MGI

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	5	192102.1	Hey1	000040289	1341800
C12	UPFM070898 7	ENSMUST00000 005548.7	Hmox1	ENSMUSG00 000005413	heme oxygenase 1 Source MGI Symbol Acc MGI 96163
D01	UPFM085834 2	ENSMUST00000 109824.1	Id1	ENSMUSG00 000042745	inhibitor of DNA binding 1 Source MGI Symbol Acc MGI 96396
D02	UPFM062324 6	ENSMUST00000 020974.6	Id2	ENSMUSG00 000020644	inhibitor of DNA binding 2 Source MGI Symbol Acc MGI 96397
D03	UPFM082609 7	ENSMUST00000 008016.2	Id3	ENSMUSG00 000007872	inhibitor of DNA binding 3 Source MGI Symbol Acc MGI 96398
D04	UPFM069619 2	ENSMUST00000 001672.11	lfrd1	ENSMUSG00 000001627	interferon-related developmental regulator 1 Source MGI Symbol Acc MGI 1316717
D05	UPFM117295 1	ENSMUST00000 016673.5	Il10	ENSMUSG00 000016529	interleukin 10 Source MGI Symbol Acc MGI 96537
D06	UPFM094235 0	ENSMUST00000 074043.6	Klf10	ENSMUSG00 000037465	Kruppel-like factor 10 Source MGI Symbol Acc MGI 1101353
D07	UPFM069246 5	ENSMUST00000 126632.7	Map3k7	ENSMUSG00 000028284	mitogen-activated protein kinase kinase 7 Source MGI Symbol Acc MGI 1346877
D08	UPFM074684 8	ENSMUST00000 004990.13	Mapk14	ENSMUSG00 000053436	mitogen-activated protein kinase 14 Source MGI Symbol Acc MGI 1346865
D09	UPFM091565 7	ENSMUST00000 111944.9	Mapk8	ENSMUSG00 000021936	mitogen-activated protein kinase 8 Source MGI Symbol Acc MGI 1346861
D10	UPFM083711 4	ENSMUST00000 224047.1	Mbd1	ENSMUSG00 000024561	methyl-CpG binding domain protein 1 Source MGI Symbol Acc MGI 1333811
D11	UPFM073737 4	ENSMUST00000 211567.1	Mmp2	ENSMUSG00 000031740	matrix metalloproteinase 2 Source MGI Symbol Acc MGI 97009
D12	UPFM080790 0	ENSMUST00000 021922.9	Msx2	ENSMUSG00 000021469	msh homeobox 2 Source MGI Symbol Acc MGI 97169
E01	UPFM081421 4	ENSMUST00000 161976.7	Myc	ENSMUSG00 000022346	myelocytomatosis oncogene Source MGI Symbol Acc MGI 97250
E02	UPFM063561 8	ENSMUST00000 072514.2	Myod1	ENSMUSG00 000009471	myogenic differentiation 1 Source MGI Symbol Acc MGI 97275
E03	UPFM089959 4	ENSMUST00000 107246.1	Nfib	ENSMUSG00 000008575	nuclear factor I/B Source MGI Symbol Acc MGI 103188
E04	UPFM072174 5	ENSMUST00000 021413.8	Nfkb1a	ENSMUSG00 000021025	nuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor, alpha Source MGI Symbol Acc MGI 104741
E05	UPFM079598 7	ENSMUST00000 126872.7	Notch1	ENSMUSG00 000026923	notch 1 Source MGI Symbol Acc MGI 97363
E06	UPFM090047 0	ENSMUST00000 110896.1	Pdgfra	ENSMUSG00 000025856	platelet derived growth factor, alpha Source MGI Symbol Acc MGI 97527
E07	UPFM080537 4	ENSMUST00000 232767.1	Plg	ENSMUSG00 000059481	plasminogen Source MGI Symbol Acc MGI 97620
E08	UPFM096943 9	ENSMUST00000 138813.7	Ppara	ENSMUSG00 000022383	peroxisome proliferator activated receptor alpha Source MGI Symbol Acc MGI 104740
E09	UPFM100449 2	ENSMUST00000 190784.1	Ptgs2	ENSMUSG00 000032487	prostaglandin-endoperoxide synthase 2 Source MGI Symbol Acc MGI 97798
E10	UPFM089585 3	ENSMUST00000 052296.8	Pthlh	ENSMUSG00 000048776	parathyroid hormone-like peptide Source MGI Symbol Acc MGI 97800
E11	UPFM085603 9	ENSMUST00000 226466.1	Ptk2	ENSMUSG00 000022607	PTK2 protein tyrosine kinase 2 Source MGI Symbol Acc MGI 95481
E12	UPFM061820 0	ENSMUST00000 022622.13	Ptk2b	ENSMUSG00 000059456	PTK2 protein tyrosine kinase 2 beta Source MGI Symbol Acc MGI 104908
F01	UPFM089310 8	ENSMUST00000 022927.10	Rad21	ENSMUSG00 000022314	RAD21 cohesin complex component Source MGI Symbol Acc MGI 108016
F02	UPFM063064 6	ENSMUST00000 068133.9	Rara	ENSMUSG00 000037992	retinoic acid receptor, alpha Source MGI Symbol Acc MGI 97856
F03	UPFM089194 0	ENSMUST00000 154721.7	Rbl1	ENSMUSG00 000027641	RB transcriptional corepressor like 1 Source MGI Symbol Acc MGI 103300
F04	UPFM080926 1	ENSMUST00000 007959.13	Rhoa	ENSMUSG00 000007815	ras homolog family member A Source MGI Symbol Acc MGI 1096342
F05	UPFM092723 5	ENSMUST00000 067384.5	Rhob	ENSMUSG00 000054364	ras homolog family member B Source MGI Symbol Acc MGI 107949
F06	UPFM072805 9	ENSMUST00000 113956.9	Runx1	ENSMUSG00 000022952	runt related transcription factor 1 Source MGI Symbol Acc MGI 99852
F07	UPFM084819 8	ENSMUST00000 069927.9	S100a8	ENSMUSG00 000056054	S100 calcium binding protein A8 (calgranulin A) Source MGI Symbol Acc MGI 88244
F08	UPFM070788 6	ENSMUST00000 041388.10	Serpine1	ENSMUSG00 000037411	serine (or cysteine) peptidase inhibitor, clade E, member 1 Source MGI Symbol Acc MGI 97608
F09	UPFM073707 0	ENSMUST00000 002708.4	Shh	ENSMUSG00 000002633	sonic hedgehog Source MGI Symbol Acc MGI 98297
F10	UPFM099034 9	ENSMUST00000 210678.1	Smad1	ENSMUSG00 000031681	SMAD family member 1 Source MGI Symbol Acc MGI 109452

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM088392 2	ENSMUST00000034973.9	Smad3	ENSMUSG00000032402	SMAD family member 3 Source MGI Symbol Acc MGI 1201674
F12	UPFM067573 6	ENSMUST00000109876.7	Smad5	ENSMUSG00000021540	SMAD family member 5 Source MGI Symbol Acc MGI 1328787
G01	UPFM080128 8	ENSMUST00000144323.2	Smad6	ENSMUSG00000036867	SMAD family member 6 Source MGI Symbol Acc MGI 1336883
G02	UPFM082086 9	ENSMUST00000052631.7	Snai1	ENSMUSG00000042821	snail family zinc finger 1 Source MGI Symbol Acc MGI 98330
G03	UPFM073614 2	ENSMUST00000067230.5	Sox4	ENSMUSG00000076431	SRY (sex determining region Y)-box 4 Source MGI Symbol Acc MGI 98366
G04	UPFM083079 3	ENSMUST00000001326.6	Sp1	ENSMUSG00000001280	trans-acting transcription factor 1 Source MGI Symbol Acc MGI 98372
G05	UPFM072892 4	ENSMUST00000230955.1	Srebf2	ENSMUSG00000022463	sterol regulatory element binding factor 2 Source MGI Symbol Acc MGI 107585
G06	UPFM073116 6	ENSMUST00000045288.13	Tgfb2	ENSMUSG00000039239	transforming growth factor, beta 2 Source MGI Symbol Acc MGI 98726
G07	UPFM117296 4	ENSMUST00000061101.11	Tgfb2	ENSMUSG00000032440	transforming growth factor, beta receptor II Source MGI Symbol Acc MGI 98729
G08	UPFM072927 9	ENSMUST00000039559.8	Thbs1	ENSMUSG00000040152	thrombospondin 1 Source MGI Symbol Acc MGI 98737
G09	UPFM068209 9	ENSMUST00000174840.1	Tnfsf10	ENSMUSG00000039304	tumor necrosis factor (ligand) superfamily, member 10 Source MGI Symbol Acc MGI 107414
G10	UPFM067128 4	ENSMUST00000074519.12	Txnip	ENSMUSG00000038393	thioredoxin interacting protein Source MGI Symbol Acc MGI 1889549
G11	UPFM117296 6	ENSMUST00000214739.1	Vegfa	ENSMUSG00000023951	vascular endothelial growth factor A Source MGI Symbol Acc MGI 103178
G12	UPFM085144 6	ENSMUST00000167937.1	Wfs1	ENSMUSG00000039474	wolframin ER transmembrane glycoprotein Source MGI Symbol Acc MGI 1328355
H01	UPFM113294 6	ENSMUST00000163829.1	Actb	ENSMUSG00000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	UPFM113294 7	ENSMUST00000102476.4	B2m	ENSMUSG00000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	UPFM113294 8	ENSMUST00000117757.8	Gapdh	ENSMUSG00000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	UPFM113294 9	ENSMUST00000026613.13	Gusb	ENSMUSG00000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	UPFM113295 0	ENSMUST00000166469.7	Hsp90ab1	ENSMUSG00000023944	heat shock protein 90 alpha (cytosolic), class B member 1 Source MGI Symbol Acc MGI 96247
H06	UPFM112660 9	UPL_MGDC	MGDC	UPL_MGDC	Mouse Genomic DNA Contamination
H07	UPFH1126606	UPL_QIC	QIC	UPL_QIC	QuantiNova Internal Control
H08	UPFH1126606	UPL_QIC	QIC	UPL_QIC	QuantiNova Internal Control
H09	UPFH1126606	UPL_QIC	QIC	UPL_QIC	QuantiNova Internal Control
H10	UPFH1126605	UPL_PPC	PPC	UPL_PPC	Positive PCR Control
H11	UPFH1126605	UPL_PPC	PPC	UPL_PPC	Positive PCR Control
H12	UPFH1126605	UPL_PPC	PPC	UPL_PPC	Positive PCR Control

Related products

Product	Contents	Cat. no.
QuantiNova LNA Probe PCR QC Panel	These panels are designed to assess the quality of RNA samples before characterization using QuantiNova LNA Probe PCR Focus Panels; available in 96-well, 384-well, and Rotor-Disc 100 formats	249945
QuantiNova Reverse Transcription Kit (10)*	For 10 x 20 μ l reactions: 20 μ l 8x gDNA Removal Mix, 10 μ l Reverse Transcription Enzyme, 40 μ l Reverse Transcription Mix (containing RT primers), 20 μ l Internal Control RNA, 1.9 ml RNase-Free Water	205410
QuantiNova Probe RT-PCR Kit (100)*	For 100 x 20 μ l reactions: 1 ml QuantiNova Probe RT-PCR Master Mix, 20 μ l QuantiNova Probe RT Mix, 20 μ l Internal Control RNA, 500 μ l Yellow Template Dilution Buffer, 250 μ l ROX Reference Dye, 1.9 μ l RNase-Free Water	208352
QuantiNova Probe PCR Kit (100)*	For 100 x 20 μ l reactions: 1 ml 2x QuantiNova Probe PCR Master Mix, 500 μ l QuantiNova Yellow Template Dilution Buffer, 250 μ l QN ROX Reference Dye, 1.9 ml Water	208252

*Larger kit sizes available.

The QuantiNova LNA Probe PCR Focus 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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