

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

Mouse Th1 & Th2 Responses

Cat. no. 249955 UPMM-034ZR

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	Bcl6	Ccl11	Ccl5	Ccl7	Ccr10	Ccr2	Ccr3	Ccr4	Ccr5	Cd27	Cd28	Cd4
B	Cd40	Cd40lg	Cd80	Cd86	Cebpb	Crebbp	Csf2	Ctla4	Cxcr3	Fasf	Gata3	Gfi1
C	Icos	Ifng	Il10	Il12b	Il12rb2	Il13	Il13ra1	Il15	Il18	Il18bp	Il18r1	Il1r1
D	Il1r1	Il2	Il25	Il27	Il27ra	Il2ra	Il3	Il4	Il4ra	Il5	Il6	Il7
E	Il7r	Il9	Irf1	Irf4	Jak1	Jak2	Jak3	Junb	Lta	Maf	Mapk8	Mapk9
F	Nfatc1	Nfatc2	Nfkb1	Pcgf2	Ptprc	Sftpd	Socs1	Socs3	Socs5	Spp1	Stat1	Stat4
G	Stat6	Tbx21	Tgfb3	Tlr4	Tlr6	Tnf	Tnfrsf4	Tnfrsf8	Tnfrsf4	Tyk2	Vegfa	Yy1
H	Actb	B2m	Gapdh	Gusb	Hsp90ab1	MGDC	QIC	QIC	QIC	QIC	PPC	PPC

Gene table: QuantiNova LNA Probe PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	UPFM079760 6	ENSMUST00000 023151.5	Bcl6	ENSMUSG00 000022508	B cell leukemia/lymphoma 6 Source MGI Symbol Acc MGI 107187
A02	UPFM093466 9	ENSMUST00000 000342.2	Ccl11	ENSMUSG00 000020676	chemokine (C-C motif) ligand 11 Source MGI Symbol Acc MGI 103576
A03	UPFM078318 2	ENSMUST00000 035938.2	Ccl5	ENSMUSG00 000035042	chemokine (C-C motif) ligand 5 Source MGI Symbol Acc MGI 98262
A04	UPFM093687 7	ENSMUST00000 021011.2	Ccl7	ENSMUSG00 000035373	chemokine (C-C motif) ligand 7 Source MGI Symbol Acc MGI 99512
A05	UPFM079410 6	ENSMUST00000 062759.3	Ccr10	ENSMUSG00 000044052	chemokine (C-C motif) receptor 10 Source MGI Symbol Acc MGI 1096320
A06	UPFM064396 1	ENSMUST00000 168841.2	Ccr2	ENSMUSG00 000049103	chemokine (C-C motif) receptor 2 Source MGI Symbol Acc MGI 106185
A07	UPFM098372 1	ENSMUST00000 039171.8	Ccr3	ENSMUSG00 000035448	chemokine (C-C motif) receptor 3 Source MGI Symbol Acc MGI 104616
A08	UPFM092149 8	ENSMUST00000 054414.4	Ccr4	ENSMUSG00 000047898	chemokine (C-C motif) receptor 4 Source MGI Symbol Acc MGI 107824
A09	UPFM078922 4	ENSMUST00000 111442.2	Ccr5	ENSMUSG00 000079227	chemokine (C-C motif) receptor 5 Source MGI Symbol Acc MGI 107182
A10	UPFM074378 3	ENSMUST00000 112282.2	Cd27	ENSMUSG00 000030336	CD27 antigen Source MGI Symbol Acc MGI 88326
A11	UPFM073617 9	ENSMUST00000 153207.1	Cd28	ENSMUSG00 000026012	CD28 antigen Source MGI Symbol Acc MGI 88327
A12	UPFM075548 7	ENSMUST00000 145818.1	Cd4	ENSMUSG00 000023274	CD4 antigen Source MGI Symbol Acc MGI 88335
B01	UPFM072215 7	ENSMUST00000 153105.1	Cd40	ENSMUSG00 000017652	CD40 antigen Source MGI Symbol Acc MGI 88336
B02	UPFM091836 0	ENSMUST00000 033466.1	Cd40lg	ENSMUSG00 000031132	CD40 ligand Source MGI Symbol Acc MGI 88337
B03	UPFM091778 2	ENSMUST00000 099816.2	Cd80	ENSMUSG00 000075122	CD80 antigen Source MGI Symbol Acc MGI 101775
B04	UPFM099543 4	ENSMUST00000 089620.10	Cd86	ENSMUSG00 000022901	CD86 antigen Source MGI Symbol Acc MGI 101773
B05	UPFM117294 0	ENSMUST00000 070642.3	Cebpb	ENSMUSG00 000056501	CCAAT/enhancer binding protein (C/EBP), beta Source MGI Symbol Acc MGI 88373
B06	UPFM086770 7	ENSMUST00000 206098.1	Crebbp	ENSMUSG00 000022521	CREB binding protein Source MGI Symbol Acc MGI 1098280
B07	UPFM064031 3	ENSMUST00000 019060.5	Csf2	ENSMUSG00 000018916	colony stimulating factor 2 (granulocyte-macrophage) Source MGI Symbol Acc MGI 1339752
B08	UPFM090439 4	ENSMUST00000 027164.8	Ctla4	ENSMUSG00 000026011	cytotoxic T-lymphocyte-associated protein 4 Source MGI Symbol Acc MGI 88556
B09	UPFM074415 9	ENSMUST00000 056614.6	Cxcr3	ENSMUSG00 000050232	chemokine (C-X-C motif) receptor 3 Source MGI Symbol Acc MGI 1277207
B10	UPFM074944 2	ENSMUST00000 193648.1	Fasl	ENSMUSG00 000000817	Fas ligand (TNF superfamily, member 6) Source MGI Symbol Acc MGI 99255
B11	UPFM070391 0	ENSMUST00000 151456.1	Gata3	ENSMUSG00 000015619	GATA binding protein 3 Source MGI Symbol Acc MGI 95663
B12	UPFM094631 4	ENSMUST00000 031205.15	Gfi1	ENSMUSG00 000029275	growth factor independent 1 transcription repressor Source MGI Symbol Acc MGI 103170
C01	UPFM096311 9	ENSMUST00000 102827.3	Icos	ENSMUSG00 000026009	inducible T cell co-stimulator Source MGI Symbol Acc MGI 1858745
C02	UPFM117295 0	ENSMUST00000 068592.4	Ifgn	ENSMUSG00 000055170	interferon gamma Source MGI Symbol Acc MGI 107656
C03	UPFM117295 1	ENSMUST00000 016673.5	Il10	ENSMUSG00 000016529	interleukin 10 Source MGI Symbol Acc MGI 96537
C04	UPFM078502 0	ENSMUST00000 170513.2	Il12b	ENSMUSG00 000004296	interleukin 12b Source MGI Symbol Acc MGI 96540
C05	UPFM071325 1	ENSMUST00000 117441.7	Il12rb2	ENSMUSG00 000018341	interleukin 12 receptor, beta 2 Source MGI Symbol Acc MGI 1270861
C06	UPFM117295 2	ENSMUST00000 020650.1	Il13	ENSMUSG00 000020383	interleukin 13 Source MGI Symbol Acc MGI 96541
C07	UPFM094366 5	ENSMUST00000 033418.7	Il13ra1	ENSMUSG00 000017057	interleukin 13 receptor, alpha 1 Source MGI Symbol Acc MGI 105052
C08	UPFM090675 6	ENSMUST00000 209687.1	Il15	ENSMUSG00 000031712	interleukin 15 Source MGI Symbol Acc MGI 103014
C09	UPFM093943 0	ENSMUST00000 180021.1	Il18	ENSMUSG00 000039217	interleukin 18 Source MGI Symbol Acc MGI 107936
C10	UPFM095426 7	ENSMUST00000 209844.1	Il18bp	ENSMUSG00 000070427	interleukin 18 binding protein Source MGI Symbol Acc MGI 1333800
	UPFM089350	ENSMUST00000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	1	193793.5	Il18r1	000026070	interleukin 18 receptor 1 Source MGI Symbol Acc MGI 105383
C12	UPFM070319 9	ENSMUST00000 114795.2	Il1r1	ENSMUSG00 000026072	interleukin 1 receptor, type I Source MGI Symbol Acc MGI 96545
D01	UPFM088958 3	ENSMUST00000 174335.7	Il1rl1	ENSMUSG00 000026069	interleukin 1 receptor-like 1 Source MGI Symbol Acc MGI 98427
D02	UPFM082222 9	ENSMUST00000 029275.5	Il2	ENSMUSG00 000027720	interleukin 2 Source MGI Symbol Acc MGI 96548
D03	UPFM084927 4	ENSMUST00000 037863.5	Il25	ENSMUSG00 000040770	interleukin 25 Source MGI Symbol Acc MGI 2155888
D04	UPFM117295 5	ENSMUST00000 058429.5	Il27	ENSMUSG00 000044701	interleukin 27 Source MGI Symbol Acc MGI 2384409
D05	UPFM092666 2	ENSMUST00000 210245.1	Il27ra	ENSMUSG00 000005465	interleukin 27 receptor, alpha Source MGI Symbol Acc MGI 1355318
D06	UPFM092234 6	ENSMUST00000 028111.5	Il2ra	ENSMUSG00 000026770	interleukin 2 receptor, alpha chain Source MGI Symbol Acc MGI 96549
D07	UPFM084591 6	ENSMUST00000 019058.5	Il3	ENSMUSG00 000018914	interleukin 3 Source MGI Symbol Acc MGI 96552
D08	UPFM095925 1	ENSMUST00000 150568.7	Il4	ENSMUSG00 000000869	interleukin 4 Source MGI Symbol Acc MGI 96556
D09	UPFM095561 1	ENSMUST00000 206217.1	Il4ra	ENSMUSG00 000030748	interleukin 4 receptor, alpha Source MGI Symbol Acc MGI 105367
D10	UPFM066497 9	ENSMUST00000 048605.2	Il5	ENSMUSG00 000036117	interleukin 5 Source MGI Symbol Acc MGI 96557
D11	UPFM072909 9	ENSMUST00000 195978.4	Il6	ENSMUSG00 000025746	interleukin 6 Source MGI Symbol Acc MGI 96559
D12	UPFM091608 1	ENSMUST00000 194279.5	Il7	ENSMUSG00 000040329	interleukin 7 Source MGI Symbol Acc MGI 96561
E01	UPFM083887 3	ENSMUST00000 228782.1	Il7r	ENSMUSG00 000003882	interleukin 7 receptor Source MGI Symbol Acc MGI 96562
E02	UPFM099714 9	ENSMUST00000 022019.3	Il9	ENSMUSG00 000021538	interleukin 9 Source MGI Symbol Acc MGI 96563
E03	UPFM062425 2	ENSMUST00000 142221.7	Irf1	ENSMUSG00 000018899	interferon regulatory factor 1 Source MGI Symbol Acc MGI 96590
E04	UPFM073649 8	ENSMUST00000 110307.2	Irf4	ENSMUSG00 000021356	interferon regulatory factor 4 Source MGI Symbol Acc MGI 1096873
E05	UPFM073443 4	ENSMUST00000 155328.7	Jak1	ENSMUSG00 000028530	Janus kinase 1 Source MGI Symbol Acc MGI 96628
E06	UPFM074831 3	ENSMUST00000 065796.9	Jak2	ENSMUSG00 000024789	Janus kinase 2 Source MGI Symbol Acc MGI 96629
E07	UPFM097804 2	ENSMUST00000 110012.1	Jak3	ENSMUSG00 000031805	Janus kinase 3 Source MGI Symbol Acc MGI 99928
E08	UPFM090452 1	ENSMUST00000 064922.6	Junb	ENSMUSG00 000052837	jun B proto-oncogene Source MGI Symbol Acc MGI 96647
E09	UPFM065707 9	ENSMUST00000 025266.5	Lta	ENSMUSG00 000024402	lymphotoxin A Source MGI Symbol Acc MGI 104797
E10	UPFM080165 6	ENSMUST00000 109104.1	Maf	ENSMUSG00 000055435	avian musculoaponeurotic fibrosarcoma oncogene homolog Source MGI Symbol Acc MGI 96909
E11	UPFM091565 7	ENSMUST00000 111944.9	Mapk8	ENSMUSG00 000021936	mitogen-activated protein kinase 8 Source MGI Symbol Acc MGI 1346861
E12	UPFM094782 8	ENSMUST00000 144857.7	Mapk9	ENSMUSG00 000020366	mitogen-activated protein kinase 9 Source MGI Symbol Acc MGI 1346862
F01	UPFM095588 1	ENSMUST00000 170905.8	Nfatc1	ENSMUSG00 000033016	nuclear factor of activated T cells, cytoplasmic, calcineurin dependent 1 Source MGI Symbol Acc MGI 102469
F02	UPFM080568 2	ENSMUST00000 099067.9	Nfatc2	ENSMUSG00 000027544	nuclear factor of activated T cells, cytoplasmic, calcineurin dependent 2 Source MGI Symbol Acc MGI 102463
F03	UPFM098758 7	ENSMUST00000 029812.13	Nfkb1	ENSMUSG00 000028163	nuclear factor of kappa light polypeptide gene enhancer in B cells 1, p105 Source MGI Symbol Acc MGI 97312
F04	UPFM080178 2	ENSMUST00000 179765.7	Pcgf2	ENSMUSG00 000018537	polycomb group ring finger 2 Source MGI Symbol Acc MGI 99161
F05	UPFM080782 6	ENSMUST00000 112036.4	Ptprc	ENSMUSG00 000026395	protein tyrosine phosphatase, receptor type, C Source MGI Symbol Acc MGI 97810
F06	UPFM070463 1	ENSMUST00000 077136.4	Sftpd	ENSMUSG00 000021795	surfactant associated protein D Source MGI Symbol Acc MGI 109515
F07	UPFM065177 1	ENSMUST00000 229866.1	Socs1	ENSMUSG00 000038037	suppressor of cytokine signaling 1 Source MGI Symbol Acc MGI 1354910
F08	UPFM069413 9	ENSMUST00000 054002.3	Socs3	ENSMUSG00 000053113	suppressor of cytokine signaling 3 Source MGI Symbol Acc MGI 1201791
F09	UPFM097938 5	ENSMUST00000 234803.1	Socs5	ENSMUSG00 000037104	suppressor of cytokine signaling 5 Source MGI Symbol Acc MGI 2385459
F10	UPFM075924 9	ENSMUST00000 112746.7	Spp1	ENSMUSG00 000029304	secreted phosphoprotein 1 Source MGI Symbol Acc MGI 98389

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM071531 5	ENSMUST00000 186574.6	Stat1	ENSMUSG00 000026104	signal transducer and activator of transcription 1 Source MGI Symbol Acc MGI 103063
F12	UPFM062533 9	ENSMUST00000 168302.7	Stat4	ENSMUSG00 000062939	signal transducer and activator of transcription 4 Source MGI Symbol Acc MGI 103062
G01	UPFM075580 6	ENSMUST00000 092074.11	Stat6	ENSMUSG00 000002147	signal transducer and activator of transcription 6 Source MGI Symbol Acc MGI 103034
G02	UPFM101162 2	ENSMUST00000 001484.2	Tbx21	ENSMUSG00 000001444	T-box 21 Source MGI Symbol Acc MGI 1888984
G03	UPFM086737 6	ENSMUST00000 003687.7	Tgfb3	ENSMUSG00 000021253	transforming growth factor, beta 3 Source MGI Symbol Acc MGI 98727
G04	UPFM075034 5	ENSMUST00000 107365.2	Tlr4	ENSMUSG00 000039005	toll-like receptor 4 Source MGI Symbol Acc MGI 96824
G05	UPFM082131 4	ENSMUST00000 201307.1	Tlr6	ENSMUSG00 000051498	toll-like receptor 6 Source MGI Symbol Acc MGI 1341296
G06	UPFM063847 1	ENSMUST00000 025263.14	Tnf	ENSMUSG00 000024401	tumor necrosis factor Source MGI Symbol Acc MGI 104798
G07	UPFM097732 6	ENSMUST00000 127377.1	Tnfrsf4	ENSMUSG00 000029075	tumor necrosis factor receptor superfamily, member 4 Source MGI Symbol Acc MGI 104512
G08	UPFM096867 3	ENSMUST00000 123027.1	Tnfrsf8	ENSMUSG00 000028602	tumor necrosis factor receptor superfamily, member 8 Source MGI Symbol Acc MGI 99908
G09	UPFM099411 2	ENSMUST00000 028024.4	Tnfsf4	ENSMUSG00 000026700	tumor necrosis factor (ligand) superfamily, member 4 Source MGI Symbol Acc MGI 104511
G10	UPFM093815 1	ENSMUST00000 216874.1	Tyk2	ENSMUSG00 000032175	tyrosine kinase 2 Source MGI Symbol Acc MGI 1929470
G11	UPFM117296 6	ENSMUST00000 214739.1	Vegfa	ENSMUSG00 000023951	vascular endothelial growth factor A Source MGI Symbol Acc MGI 103178
G12	UPFM086946 3	ENSMUST00000 126912.1	Yy1	ENSMUSG00 000021264	YY1 transcription factor Source MGI Symbol Acc MGI 99150
H01	UPFM113294 6	ENSMUST00000 163829.1	Actb	ENSMUSG00 000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	UPFM113294 7	ENSMUST00000 102476.4	B2m	ENSMUSG00 000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	UPFM113294 8	ENSMUST00000 117757.8	Gapdh	ENSMUSG00 000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	UPFM113294 9	ENSMUST00000 026613.13	Gusb	ENSMUSG00 000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	UPFM113295 0	ENSMUST00000 166469.7	Hsp90ab1	ENSMUSG00 000023944	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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