

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

## Mouse Female Infertility

Cat. no. 249955 UPMM-164ZR

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](http://www.qiagen.com) for further details.

	1	2	3	4	5	6	7	8	9	10	11	12
A	Akt1	Anxa2	Apod	Ar	Areg	Bax	Bcl2	C2	C3	Calca	Casp3	Ccl5
B	Ccnb1	Cd55	Cdh1	Cfd	Cldn4	Comp	Crabp2	Csf1	Ctnnb1	Cxcl12	Dkk1	Egf
C	Egfr	Esr1	Esr2	F3	Fbn1	Fn1	Gadd45a	Gast	Gdf15	Gpx3	Hbegf	Hoxa10
D	Hoxa11	Icam1	Igf1	Igfbp1	Il11	Il15	Il1a	Il1b	Il1r1	Il6	Ilgf4	Ilgf7
E	Ilgb3	Kdr	Lama1	Lamc2	Lep	Lif	Lifr	Maoa	Mid1	Mki67	Mmp2	Mmp7
F	Mmp9	Mx1	Muc1	Olfm1	Pcna	Pgf	Pgr	Prl	Ptgs1	Ptgs2	Sell	Sfrp4
G	Sod1	Spp1	Stat3	Stmn1	Tgfb1	Timp1	Tnf	Tnfrsf10b	Trp53	Vcam1	Vegfa	Wnt2
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	UPFM082786 0	ENSMUST00000 139388.2	Akt1	ENSMUSG00 000001729	thymoma viral proto-oncogene 1 Source MGI Symbol Acc MGI 87986
A02	UPFM085520 3	ENSMUST00000 123470.7	Anxa2	ENSMUSG00 000032231	annexin A2 Source MGI Symbol Acc MGI 88246
A03	UPFM100916 7	ENSMUST00000 115230.1	Apod	ENSMUSG00 000022548	apolipoprotein D Source MGI Symbol Acc MGI 88056
A04	UPFM078422 2	ENSMUST00000 052837.8	Ar	ENSMUSG00 000046532	androgen receptor Source MGI Symbol Acc MGI 88064
A05	UPFM097558 1	ENSMUST00000 031325.5	Areg	ENSMUSG00 000029378	amphiregulin Source MGI Symbol Acc MGI 88068
A06	UPFM090386 1	ENSMUST00000 211195.1	Bax	ENSMUSG00 000003873	BCL2-associated X protein Source MGI Symbol Acc MGI 99702
A07	UPFM063585 3	ENSMUST00000 112751.1	Bcl2	ENSMUSG00 000057329	B cell leukemia/lymphoma 2 Source MGI Symbol Acc MGI 88138
A08	UPFM067257 1	ENSMUST00000 152417.7	C2	ENSMUSG00 000024371	complement component 2 (within H-2S) Source MGI Symbol Acc MGI 88226
A09	UPFM087588 6	ENSMUST00000 177046.1	C3	ENSMUSG00 000024164	complement component 3 Source MGI Symbol Acc MGI 88227
A10	UPFM069603 9	ENSMUST00000 032906.10	Calca	ENSMUSG00 000030669	calcitonin/calcitonin-related polypeptide, alpha Source MGI Symbol Acc MGI 2151253
A11	UPFM072895 1	ENSMUST00000 210534.1	Casp3	ENSMUSG00 000031628	caspase 3 Source MGI Symbol Acc MGI 107739
A12	UPFM078318 2	ENSMUST00000 035938.2	Ccl5	ENSMUSG00 000035042	chemokine (C-C motif) ligand 5 Source MGI Symbol Acc MGI 98262
B01	UPFM091925 2	ENSMUST00000 147790.1	Ccnb1	ENSMUSG00 000041431	cyclin B1 Source MGI Symbol Acc MGI 88302
B02	UPFM098904 0	ENSMUST00000 122830.1	Cd55	ENSMUSG00 000026399	CD55 molecule, decay accelerating factor for complement Source MGI Symbol Acc MGI 104850
B03	UPFM088317 7	ENSMUST00000 136580.1	Cdh1	ENSMUSG00 000000303	cadherin 1 Source MGI Symbol Acc MGI 88354
B04	UPFM081054 5	ENSMUST00000 217837.1	Cfd	ENSMUSG00 000061780	complement factor D (adipsin) Source MGI Symbol Acc MGI 87931
B05	UPFM083061 6	ENSMUST00000 051401.3	Cldn4	ENSMUSG00 000047501	claudin 4 Source MGI Symbol Acc MGI 1313314
B06	UPFM087967 5	ENSMUST00000 003659.8	Comp	ENSMUSG00 000031849	cartilage oligomeric matrix protein Source MGI Symbol Acc MGI 88469
B07	UPFM073307 0	ENSMUST00000 005019.5	Crabp2	ENSMUSG00 000004885	cellular retinoic acid binding protein II Source MGI Symbol Acc MGI 88491
B08	UPFM064393 3	ENSMUST00000 155557.1	Csf1	ENSMUSG00 000014599	colony stimulating factor 1 (macrophage) Source MGI Symbol Acc MGI 1339753
B09	UPFM098586 3	ENSMUST00000 154356.7	Ctlnb1	ENSMUSG00 000006932	catenin (cadherin associated protein), beta 1 Source MGI Symbol Acc MGI 88276
B10	UPFM084136 8	ENSMUST00000 112871.7	Cxcl12	ENSMUSG00 000061353	chemokine (C-X-C motif) ligand 12 Source MGI Symbol Acc MGI 103556
B11	UPFM100823 0	ENSMUST00000 025803.8	Dkk1	ENSMUSG00 000024868	dickkopf WNT signaling pathway inhibitor 1 Source MGI Symbol Acc MGI 1329040
B12	UPFM092572 5	ENSMUST00000 199615.4	Egf	ENSMUSG00 000028017	epidermal growth factor Source MGI Symbol Acc MGI 95290
C01	UPFM080878 1	ENSMUST00000 125984.1	Egfr	ENSMUSG00 000020122	epidermal growth factor receptor Source MGI Symbol Acc MGI 95294
C02	UPFM083226 3	ENSMUST00000 105590.7	Esr1	ENSMUSG00 000019768	estrogen receptor 1 (alpha) Source MGI Symbol Acc MGI 1352467
C03	UPFM065671 5	ENSMUST00000 133564.8	Esr2	ENSMUSG00 000021055	estrogen receptor 2 (beta) Source MGI Symbol Acc MGI 109392
C04	UPFM098656 9	ENSMUST00000 029771.12	F3	ENSMUSG00 000028128	coagulation factor III Source MGI Symbol Acc MGI 88381
C05	UPFM097959 8	ENSMUST00000 028633.12	Fbn1	ENSMUSG00 000027204	fibrillin 1 Source MGI Symbol Acc MGI 95489
C06	UPFM086511 0	ENSMUST00000 188894.6	Fn1	ENSMUSG00 000026193	fibronectin 1 Source MGI Symbol Acc MGI 95566
C07	UPFM091095 4	ENSMUST00000 204282.1	Gadd45a	ENSMUSG00 000036390	growth arrest and DNA-damage-inducible 45 alpha Source MGI Symbol Acc MGI 107799
C08	UPFM094084 6	ENSMUST00000 017309.1	Gast	ENSMUSG00 000017165	gastrin Source MGI Symbol Acc MGI 104768
C09	UPFM067584 1	ENSMUST00000 003808.7	Gdf15	ENSMUSG00 000038508	growth differentiation factor 15 Source MGI Symbol Acc MGI 1346047
C10	UPFM087429 4	ENSMUST00000 149324.1	Gpx3	ENSMUSG00 000018339	glutathione peroxidase 3 Source MGI Symbol Acc MGI 105102
	UPFM081237	ENSMUST00000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	8	025363.6	Hbegf	000024486	heparin-binding EGF-like growth factor Source MGI Symbol Acc MGI 96070
C12	UPFM074422 7	ENSMUST00000 125581.1	Hoxa10	ENSMUSG00 00000938	homeobox A10 Source MGI Symbol Acc MGI 96171
D01	UPFM088470 4	ENSMUST00000 048026.9	Hoxa11	ENSMUSG00 000038210	homeobox A11 Source MGI Symbol Acc MGI 96172
D02	UPFM084326 4	ENSMUST00000 215003.1	Icam1	ENSMUSG00 000037405	intercellular adhesion molecule 1 Source MGI Symbol Acc MGI 96392
D03	UPFM092941 8	ENSMUST00000 121161.7	Igf1	ENSMUSG00 000020053	insulin-like growth factor 1 Source MGI Symbol Acc MGI 96432
D04	UPFM064388 5	ENSMUST00000 020704.7	Igfbp1	ENSMUSG00 000020429	insulin-like growth factor binding protein 1 Source MGI Symbol Acc MGI 96436
D05	UPFM083567 7	ENSMUST00000 163481.2	Il11	ENSMUSG00 000004371	interleukin 11 Source MGI Symbol Acc MGI 107613
D06	UPFM090675 6	ENSMUST00000 209687.1	Il15	ENSMUSG00 000031712	interleukin 15 Source MGI Symbol Acc MGI 103014
D07	UPFM090388 7	ENSMUST00000 028882.1	Il1a	ENSMUSG00 000027399	interleukin 1 alpha Source MGI Symbol Acc MGI 96542
D08	UPFM067128 1	ENSMUST00000 155994.1	Il1b	ENSMUSG00 000027398	interleukin 1 beta Source MGI Symbol Acc MGI 96543
D09	UPFM070319 9	ENSMUST00000 114795.2	Il1r1	ENSMUSG00 000026072	interleukin 1 receptor, type I Source MGI Symbol Acc MGI 96545
D10	UPFM072909 9	ENSMUST00000 195978.4	Il6	ENSMUSG00 000025746	interleukin 6 Source MGI Symbol Acc MGI 96559
D11	UPFM078320 0	ENSMUST00000 099972.4	Itga4	ENSMUSG00 000027009	integrin alpha 4 Source MGI Symbol Acc MGI 96603
D12	UPFM085524 7	ENSMUST00000 028499.10	Itgav	ENSMUSG00 000027087	integrin alpha V Source MGI Symbol Acc MGI 96608
E01	UPFM079961 6	ENSMUST00000 127140.2	Itgb3	ENSMUSG00 000020689	integrin beta 3 Source MGI Symbol Acc MGI 96612
E02	UPFM078164 3	ENSMUST00000 113516.1	Kdr	ENSMUSG00 000062960	kinase insert domain protein receptor Source MGI Symbol Acc MGI 96683
E03	UPFM088741 8	ENSMUST00000 035471.8	Lama1	ENSMUSG00 000032796	laminin, alpha 1 Source MGI Symbol Acc MGI 99892
E04	UPFM066525 0	ENSMUST00000 185356.6	Lamc2	ENSMUSG00 000026479	laminin, gamma 2 Source MGI Symbol Acc MGI 99913
E05	UPFM068614 7	ENSMUST00000 169505.1	Lep	ENSMUSG00 000059201	leptin Source MGI Symbol Acc MGI 104663
E06	UPFM093122 5	ENSMUST00000 066283.11	Lif	ENSMUSG00 000034394	leukemia inhibitory factor Source MGI Symbol Acc MGI 96787
E07	UPFM095922 0	ENSMUST00000 171588.1	Lifr	ENSMUSG00 000054263	LIF receptor alpha Source MGI Symbol Acc MGI 96788
E08	UPFM072891 5	ENSMUST00000 026013.5	Maoa	ENSMUSG00 000025037	monoamine oxidase A Source MGI Symbol Acc MGI 96915
E09	UPFM062504 2	ENSMUST00000 112105.7	Mid1	ENSMUSG00 000035299	midline 1 Source MGI Symbol Acc MGI 1100537
E10	UPFM068163 0	ENSMUST00000 211238.1	Mki67	ENSMUSG00 000031004	antigen identified by monoclonal antibody Ki 67 Source MGI Symbol Acc MGI 106035
E11	UPFM073737 4	ENSMUST00000 211567.1	Mmp2	ENSMUSG00 000031740	matrix metalloproteinase 2 Source MGI Symbol Acc MGI 97009
E12	UPFM090007 1	ENSMUST00000 018767.7	Mmp7	ENSMUSG00 000018623	matrix metalloproteinase 7 Source MGI Symbol Acc MGI 103189
F01	UPFM079930 8	ENSMUST00000 017881.2	Mmp9	ENSMUSG00 000017737	matrix metalloproteinase 9 Source MGI Symbol Acc MGI 97011
F02	UPFM086565 8	ENSMUST00000 063116.9	Msx1	ENSMUSG00 000048450	msh homeobox 1 Source MGI Symbol Acc MGI 97168
F03	UPFM073058 5	ENSMUST00000 041142.3	Muc1	ENSMUSG00 000042784	mucin 1, transmembrane Source MGI Symbol Acc MGI 97231
F04	UPFM081465 5	ENSMUST00000 113920.7	Olfm1	ENSMUSG00 000026833	olfactomedin 1 Source MGI Symbol Acc MGI 1860437
F05	UPFM069101 9	ENSMUST00000 140338.1	Pcna	ENSMUSG00 000027342	proliferating cell nuclear antigen Source MGI Symbol Acc MGI 97503
F06	UPFM080457 8	ENSMUST00000 222850.1	Pgf	ENSMUSG00 000004791	placental growth factor Source MGI Symbol Acc MGI 105095
F07	UPFM070208 6	ENSMUST00000 070463.9	Pgr	ENSMUSG00 000031870	progesterone receptor Source MGI Symbol Acc MGI 97567
F08	UPFM097611 3	ENSMUST00000 110369.9	Prl	ENSMUSG00 000021342	prolactin Source MGI Symbol Acc MGI 97762
F09	UPFM062184 9	ENSMUST00000 149930.2	Ptgs1	ENSMUSG00 000047250	prostaglandin-endoperoxide synthase 1 Source MGI Symbol Acc MGI 97797
F10	UPFM100449 2	ENSMUST00000 190784.1	Ptgs2	ENSMUSG00 000032487	prostaglandin-endoperoxide synthase 2 Source MGI Symbol Acc MGI 97798

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM077751 1	ENSMUST00000 097491.9	Sell	ENSMUSG00 000026581	selectin, lymphocyte Source MGI Symbol Acc MGI 98279
F12	UPFM091382 5	ENSMUST00000 222992.1	Sfrp4	ENSMUSG00 000021319	secreted frizzled-related protein 4 Source MGI Symbol Acc MGI 892010
G01	UPFM092762 0	ENSMUST00000 023707.10	Sod1	ENSMUSG00 000022982	superoxide dismutase 1, soluble Source MGI Symbol Acc MGI 98351
G02	UPFM075924 9	ENSMUST00000 112746.7	Spp1	ENSMUSG00 000029304	secreted phosphoprotein 1 Source MGI Symbol Acc MGI 98389
G03	UPFM098484 5	ENSMUST00000 092671.11	Stat3	ENSMUSG00 000004040	signal transducer and activator of transcription 3 Source MGI Symbol Acc MGI 103038
G04	UPFM093450 6	ENSMUST00000 105867.7	Stmn1	ENSMUSG00 000028832	stathmin 1 Source MGI Symbol Acc MGI 96739
G05	UPFM066688 0	ENSMUST00000 171757.1	Tgfb1	ENSMUSG00 000002603	transforming growth factor, beta 1 Source MGI Symbol Acc MGI 98725
G06	UPFM079676 3	ENSMUST00000 009530.4	Timp1	ENSMUSG00 000001131	tissue inhibitor of metalloproteinase 1 Source MGI Symbol Acc MGI 98752
G07	UPFM063847 1	ENSMUST00000 025263.14	Tnf	ENSMUSG00 000024401	tumor necrosis factor Source MGI Symbol Acc MGI 104798
G08	UPFM064695 8	ENSMUST00000 022663.6	Tnfrsf10b	ENSMUSG00 000022074	tumor necrosis factor receptor superfamily, member 10b Source MGI Symbol Acc MGI 1341090
G09	UPFM066913 3	ENSMUST00000 171247.7	Trp53	ENSMUSG00 000059552	transformation related protein 53 Source MGI Symbol Acc MGI 98834
G10	UPFM083873 5	ENSMUST00000 029574.12	Vcam1	ENSMUSG00 000027962	vascular cell adhesion molecule 1 Source MGI Symbol Acc MGI 98926
G11	UPFM117296 6	ENSMUST00000 214739.1	Vegfa	ENSMUSG00 000023951	vascular endothelial growth factor A Source MGI Symbol Acc MGI 103178
G12	UPFM079455 2	ENSMUST00000 010941.5	Wnt2	ENSMUSG00 000010797	wingless-type MMTV integration site family, member 2 Source MGI Symbol Acc MGI 98954
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 $\mu$ l reactions: 20 $\mu$ l 8x gDNA Removal Mix, 10 $\mu$ l Reverse Transcription Enzyme, 40 $\mu$ l Reverse Transcription Mix (containing RT primers), 20 $\mu$ l Internal Control RNA, 1.9 ml RNase-Free Water	205410
QuantiNova Probe RT-PCR Kit (100)*	For 100 x 20 $\mu$ l reactions: 1 ml QuantiNova Probe RT-PCR Master Mix, 20 $\mu$ l QuantiNova Probe RT Mix, 20 $\mu$ l Internal Control RNA, 500 $\mu$ l Yellow Template Dilution Buffer, 250 $\mu$ l ROX Reference Dye, 1.9 $\mu$ l RNase-Free Water	208352
QuantiNova Probe PCR Kit (100)*	For 100 x 20 $\mu$ l reactions: 1 ml 2x QuantiNova Probe PCR Master Mix, 500 $\mu$ l QuantiNova Yellow Template Dilution Buffer, 250 $\mu$ 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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