

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

Mouse GPCR Signaling PathwayFinder

Cat. no. 249955 UPMM-071ZR

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	Adcy5	Adora2a	Adrb1	Adrb2	Agt	Agtr1a	Agtr1b	Agtr2	Agtrap	Akt1	Arrb1	Arrb2
B	Adgrb1	Bcl2	Bcl2l1	Calcr	Calcr1	Casr	Cd2	Cd4	Ccnd1	Ccne1	Ccne2	Cdkn1a
C	Cakn1b	Cflar	Col1a1	Crhr1	Crhr2	Ccn2	Cyp19a1	Drd1	Drd2	Dusp14	Edn1	Egr1
D	Elk4	Fgf2	Fos	Galr2	Gcgr	Gnaq	Gnas	Grm1	Grm2	Grm4	Grm5	Grm7
E	Icam1	Il1b	Il1r1	Il1r2	Il2	Jun	Junb	Kcnh8	Lhgr	Lpar1	Lpar2	Max
F	Mmp9	Myc	Nos2	Oprd1	Oprk1	Pdpr1	Pik3cg	Prkca	Ptgs2	Ptgs2	Rgs2	Rho
G	S1pr1	S1pr2	S1pr3	Schr	Serpine1	Socs1	Tnf	Tshr	Ucp1	Vcam1	Vegfa	Ywhaz
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	UPFM0906503	ENSMUST00000114913.2	Adcy5	ENSMUSG0000022840	adenylate cyclase 5 Source MGI Symbol Acc MGI 99673
A02	UPFM0765243	ENSMUST00000219044.1	Adora2a	ENSMUSG0000020178	adenosine A2a receptor Source MGI Symbol Acc MGI 99402
A03	UPFM0720171	ENSMUST00000038949.5	Adrb1	ENSMUSG0000035283	adrenergic receptor, beta 1 Source MGI Symbol Acc MGI 87937
A04	UPFM0866443	ENSMUST00000053640.4	Adrb2	ENSMUSG0000045730	adrenergic receptor, beta 2 Source MGI Symbol Acc MGI 87938
A05	UPFM0884197	ENSMUST00000063278.6	Agt	ENSMUSG0000031980	angiotensinogen (serpin peptidase inhibitor, clade A, member B) Source MGI Symbol Acc MGI 87963
A06	UPFM0722108	ENSMUST0000022370.1	Agtr1a	ENSMUSG0000049115	angiotensin II receptor, type 1a Source MGI Symbol Acc MGI 87964
A07	UPFM0748288	ENSMUST00000068316.7	Agtr1b	ENSMUSG0000054988	angiotensin II receptor, type 1b Source MGI Symbol Acc MGI 87965
A08	UPFM1000516	ENSMUST00000131150.1	Agtr2	ENSMUSG0000068122	angiotensin II receptor, type 2 Source MGI Symbol Acc MGI 87966
A09	UPFM0653889	ENSMUST00000152323.1	Agtrap	ENSMUSG0000029007	angiotensin II, type I receptor-associated protein Source MGI Symbol Acc MGI 1339977
A10	UPFM0827860	ENSMUST00000139388.2	Akt1	ENSMUSG0000001729	thymoma viral proto-oncogene 1 Source MGI Symbol Acc MGI 87986
A11	UPFM0678923	ENSMUST00000159642.1	Arrb1	ENSMUSG0000018909	arrestin, beta 1 Source MGI Symbol Acc MGI 99473
A12	UPFM0672806	ENSMUST00000084954.12	Arrb2	ENSMUSG0000060216	arrestin, beta 2 Source MGI Symbol Acc MGI 99474
B01	UPFM0817044	ENSMUST00000189353.6	Adgrb1	ENSMUSG0000034730	adhesion G protein-coupled receptor B1 Source MGI Symbol Acc MGI 1933736
B02	UPFM0635853	ENSMUST00000112751.1	Bcl2	ENSMUSG0000057329	B cell leukemia/lymphoma 2 Source MGI Symbol Acc MGI 88138
B03	UPFM0663411	ENSMUST00000156688.1	Bcl2l1	ENSMUSG0000007659	BCL2-like 1 Source MGI Symbol Acc MGI 88139
B04	UPFM0683589	ENSMUST00000115622.7	Calcr	ENSMUSG0000023964	calcitonin receptor Source MGI Symbol Acc MGI 101950
B05	UPFM0942976	ENSMUST00000074262.8	Calclrl	ENSMUSG0000059588	calcitonin receptor-like Source MGI Symbol Acc MGI 1926944
B06	UPFM0996619	ENSMUST00000114847.8	Casr	ENSMUSG0000051980	calcium-sensing receptor Source MGI Symbol Acc MGI 1351351
B07	UPFM0945733	ENSMUST00000124479.1	Ccl2	ENSMUSG0000035385	chemokine (C-C motif) ligand 2 Source MGI Symbol Acc MGI 98259
B08	UPFM0851925	ENSMUST00000019074.3	Ccl4	ENSMUSG0000018930	chemokine (C-C motif) ligand 4 Source MGI Symbol Acc MGI 98261
B09	UPFM0933463	ENSMUST00000208193.1	Ccnd1	ENSMUSG0000070348	cyclin D1 Source MGI Symbol Acc MGI 88313
B10	UPFM0977827	ENSMUST00000130329.1	Ccne1	ENSMUSG0000002068	cyclin E1 Source MGI Symbol Acc MGI 88316
B11	UPFM0744923	ENSMUST00000145430.7	Ccne2	ENSMUSG0000028212	cyclin E2 Source MGI Symbol Acc MGI 1329034
B12	UPFM0867791	ENSMUST00000122348.2	Cdkn1a	ENSMUSG0000023067	cyclin-dependent kinase inhibitor 1A (P21) Source MGI Symbol Acc MGI 104556
C01	UPFM0725283	ENSMUST00000204807.1	Cdkn1b	ENSMUSG0000003031	cyclin-dependent kinase inhibitor 1B Source MGI Symbol Acc MGI 104565
C02	UPFM0824862	ENSMUST00000069333.7	Cflar	ENSMUSG0000026031	CASP8 and FADD-like apoptosis regulator Source MGI Symbol Acc MGI 1336166
C03	UPFM1172946	ENSMUST00000001547.7	Col1a1	ENSMUSG0000001506	collagen, type I, alpha 1 Source MGI Symbol Acc MGI 88467
C04	UPFM0874404	ENSMUST00000093925.4	Crhr1	ENSMUSG0000018634	corticotropin releasing hormone receptor 1 Source MGI Symbol Acc MGI 88498
C05	UPFM0931653	ENSMUST00000212633.1	Crhr2	ENSMUSG0000003476	corticotropin releasing hormone receptor 2 Source MGI Symbol Acc MGI 894312
C06	UPFM0874260	ENSMUST00000176228.1	Ccn2	ENSMUSG0000019997	cellular communication network factor 1 Source MGI Symbol Acc MGI 95537
C07	UPFM0746201	ENSMUST00000215736.1	Cyp19a1	ENSMUSG0000032274	cytochrome P450, family 19, subfamily a, polypeptide 1 Source MGI Symbol Acc MGI 88587
C08	UPFM0827602	ENSMUST00000021932.5	Drd1	ENSMUSG0000021478	dopamine receptor D1 Source MGI Symbol Acc MGI 99578
C09	UPFM0850725	ENSMUST00000075764.7	Drd2	ENSMUSG0000032259	dopamine receptor D2 Source MGI Symbol Acc MGI 94924
C10	UPFM1005708	ENSMUST00000018792.11	Dusp14	ENSMUSG0000018648	dual specificity phosphatase 14 Source MGI Symbol Acc MGI 1927168
	UPFM063234	ENSMUST000000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	4	021796.8	Edn1	000021367	endothelin 1 Source MGI Symbol Acc MGI 95283
C12	UPFM085434 3	ENSMUST00000 165033.1	Egr1	ENSMUSG00 000038418	early growth response 1 Source MGI Symbol Acc MGI 95295
D01	UPFM082243 2	ENSMUST00000 086556.11	Elk4	ENSMUSG00 000026436	ELK4, member of ETS oncogene family Source MGI Symbol Acc MGI 102853
D02	UPFM073062 9	ENSMUST00000 145228.1	Fgf2	ENSMUSG00 000037225	fibroblast growth factor 2 Source MGI Symbol Acc MGI 95516
D03	UPFM076456 3	ENSMUST00000 136122.7	Fos	ENSMUSG00 000021250	FBJ osteosarcoma oncogene Source MGI Symbol Acc MGI 95574
D04	UPFM099480 1	ENSMUST00000 055872.2	Galr2	ENSMUSG00 000020793	galanin receptor 2 Source MGI Symbol Acc MGI 1337018
D05	UPFM097461 2	ENSMUST00000 026119.7	Gcgr	ENSMUSG00 000025127	glucagon receptor Source MGI Symbol Acc MGI 99572
D06	UPFM063076 9	ENSMUST00000 170229.1	Gnaq	ENSMUSG00 000024639	guanine nucleotide binding protein, alpha q polypeptide Source MGI Symbol Acc MGI 95776
D07	UPFM073950 4	ENSMUST00000 148640.7	Gnas	ENSMUSG00 000027523	GNAS (guanine nucleotide binding protein, alpha stimulating) complex locus Source MGI Symbol Acc MGI 95777
D08	UPFM075534 6	ENSMUST00000 105561.8	Grm1	ENSMUSG00 000019828	glutamate receptor, metabotropic 1 Source MGI Symbol Acc MGI 1351338
D09	UPFM084574 1	ENSMUST00000 200826.3	Grm2	ENSMUSG00 000023192	glutamate receptor, metabotropic 2 Source MGI Symbol Acc MGI 1351339
D10	UPFM073855 9	ENSMUST00000 147865.1	Grm4	ENSMUSG00 000063239	glutamate receptor, metabotropic 4 Source MGI Symbol Acc MGI 1351341
D11	UPFM100372 0	ENSMUST00000 138732.2	Grm5	ENSMUSG00 000049583	glutamate receptor, metabotropic 5 Source MGI Symbol Acc MGI 1351342
D12	UPFM063816 6	ENSMUST00000 071076.12	Grm7	ENSMUSG00 000056755	glutamate receptor, metabotropic 7 Source MGI Symbol Acc MGI 1351344
E01	UPFM084326 4	ENSMUST00000 215003.1	Icam1	ENSMUSG00 000037405	intercellular adhesion molecule 1 Source MGI Symbol Acc MGI 96392
E02	UPFM067128 1	ENSMUST00000 155994.1	Il1b	ENSMUSG00 000027398	interleukin 1 beta Source MGI Symbol Acc MGI 96543
E03	UPFM070319 9	ENSMUST00000 114795.2	Il1r1	ENSMUSG00 000026072	interleukin 1 receptor, type I Source MGI Symbol Acc MGI 96545
E04	UPFM070789 8	ENSMUST00000 195770.1	Il1r2	ENSMUSG00 000026073	interleukin 1 receptor, type II Source MGI Symbol Acc MGI 96546
E05	UPFM082222 9	ENSMUST00000 029275.5	Il2	ENSMUSG00 000027720	interleukin 2 Source MGI Symbol Acc MGI 96548
E06	UPFM097521 6	ENSMUST00000 107094.1	Jun	ENSMUSG00 000052684	jun proto-oncogene Source MGI Symbol Acc MGI 96646
E07	UPFM090452 1	ENSMUST00000 064922.6	Junb	ENSMUSG00 000052837	jun B proto-oncogene Source MGI Symbol Acc MGI 96647
E08	UPFM068955 6	ENSMUST00000 184279.1	Kcnh8	ENSMUSG00 000035580	potassium voltage-gated channel, subfamily H (eag-related), member 8 Source MGI Symbol Acc MGI 2445160
E09	UPFM084751 1	ENSMUST00000 024916.6	Lhcgr	ENSMUSG00 000024107	luteinizing hormone/choriogonadotropin receptor Source MGI Symbol Acc MGI 96783
E10	UPFM081492 1	ENSMUST00000 055018.10	Lpar1	ENSMUSG00 000038668	lysophosphatidic acid receptor 1 Source MGI Symbol Acc MGI 108429
E11	UPFM070048 1	ENSMUST00000 034325.4	Lpar2	ENSMUSG00 000031861	lysophosphatidic acid receptor 2 Source MGI Symbol Acc MGI 1858422
E12	UPFM092134 0	ENSMUST00000 110395.10	Max	ENSMUSG00 000059436	Max protein Source MGI Symbol Acc MGI 96921
F01	UPFM079930 8	ENSMUST00000 017881.2	Mmp9	ENSMUSG00 000017737	matrix metalloproteinase 9 Source MGI Symbol Acc MGI 97011
F02	UPFM081421 4	ENSMUST00000 161976.7	Myc	ENSMUSG00 000022346	myelocytomatosis oncogene Source MGI Symbol Acc MGI 97250
F03	UPFM076964 2	ENSMUST00000 208783.1	Nos2	ENSMUSG00 000020826	nitric oxide synthase 2, inducible Source MGI Symbol Acc MGI 97361
F04	UPFM066339 2	ENSMUST00000 056336.1	Oprd1	ENSMUSG00 000050511	opioid receptor, delta 1 Source MGI Symbol Acc MGI 97438
F05	UPFM090180 8	ENSMUST00000 160339.1	Oprk1	ENSMUSG00 000025905	opioid receptor, kappa 1 Source MGI Symbol Acc MGI 97439
F06	UPFM086863 3	ENSMUST00000 052462.12	Pdpk1	ENSMUSG00 000024122	3-phosphoinositide dependent protein kinase 1 Source MGI Symbol Acc MGI 1338068
F07	UPFM080212 7	ENSMUST00000 053215.13	Pik3cg	ENSMUSG00 000020573	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma Source MGI Symbol Acc MGI 1353576
F08	UPFM091650 2	ENSMUST00000 100302.3	Prkca	ENSMUSG00 000050965	protein kinase C, alpha Source MGI Symbol Acc MGI 97595
F09	UPFM088606 0	ENSMUST00000 095959.1	Ptgdr	ENSMUSG00 000071489	prostaglandin D receptor Source MGI Symbol Acc MGI 102966
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	UPFM0806259	ENSMUST00000127206.7	Rgs2	ENSMUSG0000026360	regulator of G-protein signaling 2 Source MGI Symbol Acc MGI 1098271
F12	UPFM0775215	ENSMUST00000203323.1	Rho	ENSMUSG0000030324	rhodopsin Source MGI Symbol Acc MGI 97914
G01	UPFM0857718	ENSMUST00000055676.3	S1pr1	ENSMUSG0000045092	sphingosine-1-phosphate receptor 1 Source MGI Symbol Acc MGI 1096355
G02	UPFM0951528	ENSMUST00000216499.1	S1pr2	ENSMUSG0000043895	sphingosine-1-phosphate receptor 2 Source MGI Symbol Acc MGI 99569
G03	UPFM0651574	ENSMUST00000087978.4	S1pr3	ENSMUSG0000067586	sphingosine-1-phosphate receptor 3 Source MGI Symbol Acc MGI 1339365
G04	UPFM0858770	ENSMUST00000072886.10	Scr	ENSMUSG0000026387	secretin receptor Source MGI Symbol Acc MGI 2441720
G05	UPFM0707886	ENSMUST00000041388.10	Serpine1	ENSMUSG0000037411	serine (or cysteine) peptidase inhibitor, clade E, member 1 Source MGI Symbol Acc MGI 97608
G06	UPFM0651771	ENSMUST00000229866.1	Socs1	ENSMUSG0000038037	suppressor of cytokine signaling 1 Source MGI Symbol Acc MGI 1354910
G07	UPFM0638471	ENSMUST00000025263.14	Tnf	ENSMUSG0000024401	tumor necrosis factor Source MGI Symbol Acc MGI 104798
G08	UPFM0816172	ENSMUST00000021343.7	Tshr	ENSMUSG0000020963	thyroid stimulating hormone receptor Source MGI Symbol Acc MGI 98849
G09	UPFM0951209	ENSMUST00000034146.4	Ucp1	ENSMUSG0000031710	uncoupling protein 1 (mitochondrial, proton carrier) Source MGI Symbol Acc MGI 98894
G10	UPFM0838735	ENSMUST00000029574.12	Vcam1	ENSMUSG0000027962	vascular cell adhesion molecule 1 Source MGI Symbol Acc MGI 98926
G11	UPFM1172966	ENSMUST00000214739.1	Vegfa	ENSMUSG0000023951	vascular endothelial growth factor A Source MGI Symbol Acc MGI 103178
G12	UPFM0648280	ENSMUST00000110361.7	Ywhaz	ENSMUSG0000022285	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide Source MGI Symbol Acc MGI 109484
H01	UPFM1132946	ENSMUST00000163829.1	Actb	ENSMUSG0000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	UPFM1132947	ENSMUST00000102476.4	B2m	ENSMUSG0000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	UPFM1132948	ENSMUST00000117757.8	Gapdh	ENSMUSG0000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	UPFM1132949	ENSMUST00000026613.13	Gusb	ENSMUSG0000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	UPFM1132950	ENSMUST00000166469.7	Hsp90ab1	ENSMUSG0000023944	heat shock protein 90 alpha (cytosolic), class B member 1 Source MGI Symbol Acc MGI 96247
H06	UPFM1126609	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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