

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

Mouse cAMP / Calcium Signaling PathwayFinder

Cat. no. 249955 UPMM-066ZR

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	Adrb1	Ahr	Amd1	Areg	Aif3	Bcl2	Bdnf	Brca1	Calb1	Calb2	Calcr1	Calm1
B	Calr	Ccna1	Ccnd1	Cdk5	Cdkn2b	Cga	Chga	Cnn1	Creb1	Crem	Crh	Ccn1
C	Ddit3	Dusp1	Egr1	Egr2	Eno2	Fgf6	Fos	Fosb	Gcg	Gem	Hk2	Hspa4
D	Hspa5	Il2	Il6	Inhba	Junb	Jund	Kcna5	Krtap14	Ldha	Maf	Mif	Ncam1
E	Nf1	Nos2	Npy	Pck2	Pcna	Penk	Per1	Plat	Pln	Pmaip1	Pou1f1	Pou2af1
F	Ppp1r15a	Ppp2ca	Prkar1a	Prl	Plgs2	Rb1	S100a8	S100a9	S100g	Scg2	Sgk1	Slc18a1
G	Sod2	Srf	Sat	Satr2	Stat3	Tacr1	Tgfb3	Th	Thbs1	Tnf	Vcl	Vip
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	UPFM072017 1	ENSMUST00000038949.5	Adrb1	ENSMUSG0000035283	adrenergic receptor, beta 1 Source MGI Symbol Acc MGI 87937
A02	UPFM087474 3	ENSMUST00000116436.8	Ahr	ENSMUSG0000019256	aryl-hydrocarbon receptor Source MGI Symbol Acc MGI 105043
A03	UPFM099176 6	ENSMUST00000214698.1	Amd1	ENSMUSG0000075232	S-adenosylmethionine decarboxylase 1 Source MGI Symbol Acc MGI 88004
A04	UPFM097558 1	ENSMUST00000031325.5	Areg	ENSMUSG0000029378	amphiregulin Source MGI Symbol Acc MGI 88068
A05	UPFM099470 5	ENSMUST00000027941.13	Atf3	ENSMUSG0000026628	activating transcription factor 3 Source MGI Symbol Acc MGI 109384
A06	UPFM063585 3	ENSMUST00000112751.1	Bcl2	ENSMUSG0000057329	B cell leukemia/lymphoma 2 Source MGI Symbol Acc MGI 88138
A07	UPFM085815 5	ENSMUST00000111049.8	Bdnf	ENSMUSG0000048482	brain derived neurotrophic factor Source MGI Symbol Acc MGI 88145
A08	UPFM098990 7	ENSMUST00000156843.1	Brc1	ENSMUSG0000017146	breast cancer 1, early onset Source MGI Symbol Acc MGI 104537
A09	UPFM086752 3	ENSMUST00000136266.1	Calb1	ENSMUSG0000028222	calbindin 1 Source MGI Symbol Acc MGI 88248
A10	UPFM098867 3	ENSMUST00000212297.1	Calb2	ENSMUSG0000003657	calbindin 2 Source MGI Symbol Acc MGI 101914
A11	UPFM094297 6	ENSMUST00000074262.8	Calcr1	ENSMUSG0000059588	calcitonin receptor-like Source MGI Symbol Acc MGI 1926944
A12	UPFM068642 1	ENSMUST00000110082.10	Calm1	ENSMUSG0000001175	calmodulin 1 Source MGI Symbol Acc MGI 88251
B01	UPFM080836 1	ENSMUST00000003912.6	Calr	ENSMUSG0000003814	calreticulin Source MGI Symbol Acc MGI 88252
B02	UPFM079498 3	ENSMUST00000029368.6	Ccna1	ENSMUSG0000027793	cyclin A1 Source MGI Symbol Acc MGI 108042
B03	UPFM093346 3	ENSMUST00000208193.1	Ccnd1	ENSMUSG0000070348	cyclin D1 Source MGI Symbol Acc MGI 88313
B04	UPFM089556 8	ENSMUST00000030814.10	Cdk5	ENSMUSG0000028969	cyclin-dependent kinase 5 Source MGI Symbol Acc MGI 101765
B05	UPFM092812 3	ENSMUST00000097981.5	Cdkn2b	ENSMUSG0000073802	cyclin dependent kinase inhibitor 2B Source MGI Symbol Acc MGI 104737
B06	UPFM088755 0	ENSMUST00000029975.9	Cga	ENSMUSG0000028298	glycoprotein hormones, alpha subunit Source MGI Symbol Acc MGI 88390
B07	UPFM068399 9	ENSMUST00000223100.1	Chga	ENSMUSG0000021194	chromogranin A Source MGI Symbol Acc MGI 88394
B08	UPFM081622 5	ENSMUST00000216872.1	Cnn1	ENSMUSG0000001349	calponin 1 Source MGI Symbol Acc MGI 104979
B09	UPFM085293 8	ENSMUST00000087366.10	Creb1	ENSMUSG0000025958	cAMP responsive element binding protein 1 Source MGI Symbol Acc MGI 88494
B10	UPFM112635 2	ENSMUST00000123672.7	Crem	ENSMUSG0000063889	cAMP responsive element modulator Source MGI Symbol Acc MGI 88495
B11	UPFM094272 2	ENSMUST00000061294.4	Crh	ENSMUSG0000049796	corticotropin releasing hormone Source MGI Symbol Acc MGI 88496
B12	UPFM077564 6	ENSMUST00000029846.4	Ccn1	ENSMUSG0000028195	cellular communication network factor 1 Source MGI Symbol Acc MGI 88613
C01	UPFM076656 9	ENSMUST00000026475.14	Ddit3	ENSMUSG0000025408	DNA-damage inducible transcript 3 Source MGI Symbol Acc MGI 109247
C02	UPFM086453 7	ENSMUST00000236661.1	Dusp1	ENSMUSG0000024190	dual specificity phosphatase 1 Source MGI Symbol Acc MGI 105120
C03	UPFM085434 3	ENSMUST00000165033.1	Egr1	ENSMUSG0000038418	early growth response 1 Source MGI Symbol Acc MGI 95295
C04	UPFM068711 9	ENSMUST00000145936.1	Egr2	ENSMUSG0000037868	early growth response 2 Source MGI Symbol Acc MGI 95296
C05	UPFM064944 8	ENSMUST00000112476.7	Eno2	ENSMUSG0000004267	enolase 2, gamma neuronal Source MGI Symbol Acc MGI 95394
C06	UPFM097519 7	ENSMUST00000000187.6	Fgf6	ENSMUSG0000000183	fibroblast growth factor 6 Source MGI Symbol Acc MGI 95520
C07	UPFM076456 3	ENSMUST00000136122.7	Fos	ENSMUSG0000021250	FBJ osteosarcoma oncogene Source MGI Symbol Acc MGI 95574
C08	UPFM071111 8	ENSMUST00000207716.1	Fosb	ENSMUSG0000003545	FBJ osteosarcoma oncogene B Source MGI Symbol Acc MGI 95575
C09	UPFM079261 6	ENSMUST00000136686.1	Gcg	ENSMUSG0000000394	glucagon Source MGI Symbol Acc MGI 95674
C10	UPFM093430 6	ENSMUST00000108304.8	Gem	ENSMUSG0000028214	GTP binding protein (gene overexpressed in skeletal muscle) Source MGI Symbol Acc MGI 99844
	UPFM074256	ENSMUST000000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	7	000642.10	Hk2	000000628	hexokinase 2 Source MGI Symbol Acc MGI 1315197
C12	UPFM0628194	ENSMUST00000020630.7	Hspa4	ENSMUSG0000020361	heat shock protein 4 Source MGI Symbol Acc MGI 1342292
D01	UPFM1004603	ENSMUST00000100171.2	Hspa5	ENSMUSG0000026864	heat shock protein 5 Source MGI Symbol Acc MGI 95835
D02	UPFM0822229	ENSMUST00000029275.5	Il2	ENSMUSG0000027720	interleukin 2 Source MGI Symbol Acc MGI 96548
D03	UPFM0729099	ENSMUST00000195978.4	Il6	ENSMUSG0000025746	interleukin 6 Source MGI Symbol Acc MGI 96559
D04	UPFM0811177	ENSMUST00000164993.1	Inhba	ENSMUSG0000041324	inhibin beta-A Source MGI Symbol Acc MGI 96570
D05	UPFM0904521	ENSMUST00000064922.6	Junb	ENSMUSG0000052837	jun B proto-oncogene Source MGI Symbol Acc MGI 96647
D06	UPFM1005898	ENSMUST00000095267.5	Jund	ENSMUSG0000071076	jun D proto-oncogene Source MGI Symbol Acc MGI 96648
D07	UPFM0840052	ENSMUST00000060972.4	Kcna5	ENSMUSG0000045534	potassium voltage-gated channel, shaker-related subfamily, member 5 Source MGI Symbol Acc MGI 96662
D08	UPFM0879575	ENSMUST00000099562.3	Krtap14	ENSMUSG0000074928	keratin associated protein 14 Source MGI Symbol Acc MGI 1346079
D09	UPFM0855357	ENSMUST00000125862.7	Ldha	ENSMUSG0000063229	lactate dehydrogenase A Source MGI Symbol Acc MGI 96759
D10	UPFM0801656	ENSMUST00000109104.1	Maf	ENSMUSG0000055435	avian musculoaponeurotic fibrosarcoma oncogene homolog Source MGI Symbol Acc MGI 96909
D11	UPFM1172941	ENSMUST00000038169.7	Mif	ENSMUSG0000033307	macrophage migration inhibitory factor (glycosylation-inhibiting factor) Source MGI Symbol Acc MGI 96982
D12	UPFM0684127	ENSMUST00000166811.8	Ncam1	ENSMUSG0000039542	neural cell adhesion molecule 1 Source MGI Symbol Acc MGI 97281
E01	UPFM0996551	ENSMUST00000122917.7	Nf1	ENSMUSG0000020716	neurofibromin 1 Source MGI Symbol Acc MGI 97306
E02	UPFM0769642	ENSMUST00000208783.1	Nos2	ENSMUSG0000020826	nitric oxide synthase 2, inducible Source MGI Symbol Acc MGI 97361
E03	UPFM0826084	ENSMUST00000031843.6	Npy	ENSMUSG0000029819	neuropeptide Y Source MGI Symbol Acc MGI 97374
E04	UPFM1006874	ENSMUST00000226231.1	Pck2	ENSMUSG0000040618	phosphoenolpyruvate carboxykinase 2 (mitochondrial) Source MGI Symbol Acc MGI 1860456
E05	UPFM0691019	ENSMUST00000140338.1	Pcna	ENSMUSG0000027342	proliferating cell nuclear antigen Source MGI Symbol Acc MGI 97503
E06	UPFM0846765	ENSMUST00000133567.1	Penk	ENSMUSG0000045573	preproenkephalin Source MGI Symbol Acc MGI 104629
E07	UPFM0993852	ENSMUST00000142392.7	Per1	ENSMUSG0000020893	period circadian clock 1 Source MGI Symbol Acc MGI 1098283
E08	UPFM0932047	ENSMUST00000033941.6	Plat	ENSMUSG0000031538	plasminogen activator, tissue Source MGI Symbol Acc MGI 97610
E09	UPFM0701757	ENSMUST00000220197.1	Pln	ENSMUSG0000038583	phospholamban Source MGI Symbol Acc MGI 97622
E10	UPFM0707692	ENSMUST00000025399.8	Pmaip1	ENSMUSG0000024521	phorbol-12-myristate-13-acetate-induced protein 1 Source MGI Symbol Acc MGI 1930146
E11	UPFM0888243	ENSMUST00000176330.7	Pou1f1	ENSMUSG0000004842	POU domain, class 1, transcription factor 1 Source MGI Symbol Acc MGI 97588
E12	UPFM0969145	ENSMUST00000214322.1	Pou2af1	ENSMUSG0000032053	POU domain, class 2, associating factor 1 Source MGI Symbol Acc MGI 105086
F01	UPFM0780211	ENSMUST00000042105.10	Ppp1r15a	ENSMUSG0000040435	protein phosphatase 1, regulatory subunit 15A Source MGI Symbol Acc MGI 1927072
F02	UPFM0986726	ENSMUST00000020608.2	Ppp2ca	ENSMUSG0000020349	protein phosphatase 2 (formerly 2A), catalytic subunit, alpha isoform Source MGI Symbol Acc MGI 1321159
F03	UPFM0618474	ENSMUST00000106676.7	Prkar1a	ENSMUSG0000020612	protein kinase, cAMP dependent regulatory, type I, alpha Source MGI Symbol Acc MGI 104878
F04	UPFM0976113	ENSMUST00000110369.9	Prl	ENSMUSG0000021342	prolactin Source MGI Symbol Acc MGI 97762
F05	UPFM1004492	ENSMUST00000190784.1	Ptgs2	ENSMUSG0000032487	prostaglandin-endoperoxide synthase 2 Source MGI Symbol Acc MGI 97798
F06	UPFM0772788	ENSMUST00000022701.6	Rb1	ENSMUSG0000022105	RB transcriptional corepressor 1 Source MGI Symbol Acc MGI 97874
F07	UPFM0848198	ENSMUST00000069927.9	S100a8	ENSMUSG0000056054	S100 calcium binding protein A8 (calgranulin A) Source MGI Symbol Acc MGI 88244
F08	UPFM0798374	ENSMUST00000069960.11	S100a9	ENSMUSG0000056071	S100 calcium binding protein A9 (calgranulin B) Source MGI Symbol Acc MGI 1338947
F09	UPFM1001785	ENSMUST00000038769.2	S100g	ENSMUSG0000040808	S100 calcium binding protein G Source MGI Symbol Acc MGI 104528
F10	UPFM0947398	ENSMUST00000049972.5	Scg2	ENSMUSG0000050711	secretogranin II Source MGI Symbol Acc MGI 103033

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM086165 8	ENSMUST00000020145.11	Sgk1	ENSMUSG0000019970	serum/glucocorticoid regulated kinase 1 Source MGI Symbol Acc MGI 1340062
F12	UPFM089152 9	ENSMUST00000148856.1	Slc18a1	ENSMUSG0000036330	solute carrier family 18 (vesicular monoamine), member 1 Source MGI Symbol Acc MGI 106684
G01	UPFM095033 7	ENSMUST00000233897.1	Sod2	ENSMUSG0000006818	superoxide dismutase 2, mitochondrial Source MGI Symbol Acc MGI 98352
G02	UPFM087348 3	ENSMUST00000015749.6	Srf	ENSMUSG0000015605	serum response factor Source MGI Symbol Acc MGI 106658
G03	UPFM081085 2	ENSMUST00000004480.4	Sst	ENSMUSG0000004366	somatostatin Source MGI Symbol Acc MGI 98326
G04	UPFM093389 3	ENSMUST00000106630.1	Sstr2	ENSMUSG0000047904	somatostatin receptor 2 Source MGI Symbol Acc MGI 98328
G05	UPFM098484 5	ENSMUST00000092671.11	Stat3	ENSMUSG0000004040	signal transducer and activator of transcription 3 Source MGI Symbol Acc MGI 103038
G06	UPFM062175 6	ENSMUST00000032122.10	Tacr1	ENSMUSG0000030043	tachykinin receptor 1 Source MGI Symbol Acc MGI 98475
G07	UPFM086737 6	ENSMUST00000003687.7	Tgfb3	ENSMUSG0000021253	transforming growth factor, beta 3 Source MGI Symbol Acc MGI 98727
G08	UPFM076005 4	ENSMUST00000000219.9	Th	ENSMUSG0000000214	tyrosine hydroxylase Source MGI Symbol Acc MGI 98735
G09	UPFM072927 9	ENSMUST00000039559.8	Thbs1	ENSMUSG0000040152	thrombospondin 1 Source MGI Symbol Acc MGI 98737
G10	UPFM063847 1	ENSMUST00000025263.14	Tnf	ENSMUSG0000024401	tumor necrosis factor Source MGI Symbol Acc MGI 104798
G11	UPFM069252 2	ENSMUST00000022369.8	Vcl	ENSMUSG0000021823	vinculin Source MGI Symbol Acc MGI 98927
G12	UPFM083312 5	ENSMUST000000217331.1	Vip	ENSMUSG0000019772	vasoactive intestinal polypeptide Source MGI Symbol Acc MGI 98933
H01	UPFM113294 6	ENSMUST000000163829.1	Actb	ENSMUSG0000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	UPFM113294 7	ENSMUST000000102476.4	B2m	ENSMUSG0000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	UPFM113294 8	ENSMUST000000117757.8	Gapdh	ENSMUSG0000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	UPFM113294 9	ENSMUST000000026613.13	Gusb	ENSMUSG0000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	UPFM113295 0	ENSMUST000000166469.7	Hsp90ab1	ENSMUSG0000023944	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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