

QuantiNova® LNA® Probe PCR Focus Panels (96-Well Format and 384-Well [4 x 96] Format)

Mouse Synaptic Plasticity

Cat. no. 249955 UPMM-126ZA

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 (96-well): QuantiNova LNA Probe PCR Focus Panel

For the 384-well (4 × 96) PCR panels, genes are present in a staggered format. 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	Adam10	Adcy1	Adcy8	Akt1	Arc	Bdnf	Camk2a	Camk2g	Cdh2	Cebpb	Cebpd	Cnr1
B	Creb1	Crem	Dlg4	Egr1	Egr2	Egr3	Egr4	Ephb2	Fos	Gabra5	Gnai1	Gria1
C	Gria2	Gria3	Gria4	Grin1	Grin2a	Grin2b	Grin2c	Grin2d	Grip1	Grm1	Grm2	Grm3
D	Grm4	Grm5	Grm7	Grm8	Homer1	Igf1	Inhba	Jun	Junb	Kif17	Kif10	Mapk1
E	Mmp9	Ncam1	Nfkb1	Nfkbib	Ngf	Ngfr	Nos1	Nptx2	Nr4a1	Nrf3	Nrf5	Ntrk2
F	Pcdh8	Pick1	Pim1	Plat	Plcg1	Ppp1ca	Ppp1cc	Ppp1r14a	Ppp2ca	Ppp3ca	Prkca	Prkcg
G	Prkg1	Rab3a	Rela	Reln	Rgs2	Rheb	Sirt1	Srf	Synpo	Timp1	Tnf	Ywhaq
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	UPFM077862 6	ENSMUST000000 067880.12	Adam10	ENSMUSG00 000054693	a disintegrin and metallopeptidase domain 10 Source MGI Symbol Acc MGI 109548
A02	UPFM078135 3	ENSMUST000000 020706.4	Adcy1	ENSMUSG00 000020431	adenylate cyclase 1 Source MGI Symbol Acc MGI 99677
A03	UPFM083521 3	ENSMUST000000 228109.1	Adcy8	ENSMUSG00 000022376	adenylate cyclase 8 Source MGI Symbol Acc MGI 1341110
A04	UPFM082786 0	ENSMUST000000 139388.2	Akt1	ENSMUSG00 000001729	thymoma viral proto-oncogene 1 Source MGI Symbol Acc MGI 87986
A05	UPFM082252 8	ENSMUST000000 110009.3	Arc	ENSMUSG00 000022602	activity regulated cytoskeletal-associated protein Source MGI Symbol Acc MGI 88067
A06	UPFM085815 5	ENSMUST000000 111049.8	Bdnf	ENSMUSG00 000048482	brain derived neurotrophic factor Source MGI Symbol Acc MGI 88145
A07	UPFM099124 3	ENSMUST000000 115297.7	Camk2a	ENSMUSG00 000024617	calcium/calmodulin-dependent protein kinase II alpha Source MGI Symbol Acc MGI 88256
A08	UPFM094428 2	ENSMUST000000 224245.1	Camk2g	ENSMUSG00 000021820	calcium/calmodulin-dependent protein kinase II gamma Source MGI Symbol Acc MGI 88259
A09	UPFM069274 2	ENSMUST000000 025166.13	Cdh2	ENSMUSG00 000024304	cadherin 2 Source MGI Symbol Acc MGI 88355
A10	UPFM117294 0	ENSMUST000000 070642.3	Cebpb	ENSMUSG00 000056501	CCAAT/enhancer binding protein (C/EBP), beta Source MGI Symbol Acc MGI 88373
A11	UPFM093221 5	ENSMUST000000 210772.1	Cebpd	ENSMUSG00 000071637	CCAAT/enhancer binding protein (C/EBP), delta Source MGI Symbol Acc MGI 103573
A12	UPFM077796 2	ENSMUST000000 057188.6	Cnr1	ENSMUSG00 000044288	cannabinoid receptor 1 (brain) Source MGI Symbol Acc MGI 104615
B01	UPFM085293 8	ENSMUST000000 087366.10	Creb1	ENSMUSG00 000025958	cAMP responsive element binding protein 1 Source MGI Symbol Acc MGI 88494
B02	UPFM112635 2	ENSMUST000000 123672.7	Crem	ENSMUSG00 000063889	cAMP responsive element modulator Source MGI Symbol Acc MGI 88495
B03	UPFM079262 8	ENSMUST000000 123687.2	Dlg4	ENSMUSG00 000020886	discs large MAGUK scaffold protein 4 Source MGI Symbol Acc MGI 1277959
B04	UPFM085434 3	ENSMUST000000 165033.1	Egr1	ENSMUSG00 000038418	early growth response 1 Source MGI Symbol Acc MGI 95295
B05	UPFM068711 9	ENSMUST000000 145936.1	Egr2	ENSMUSG00 000037868	early growth response 2 Source MGI Symbol Acc MGI 95296
B06	UPFM081883 4	ENSMUST000000 225200.1	Egr3	ENSMUSG00 000033730	early growth response 3 Source MGI Symbol Acc MGI 1306780
B07	UPFM100719 3	ENSMUST000000 095759.4	Egr4	ENSMUSG00 000071341	early growth response 4 Source MGI Symbol Acc MGI 99252
B08	UPFM066979 1	ENSMUST000000 105845.8	Ephb2	ENSMUSG00 000028664	Eph receptor B2 Source MGI Symbol Acc MGI 99611
B09	UPFM076456 3	ENSMUST000000 136122.7	Fos	ENSMUSG00 000021250	FBJ osteosarcoma oncogene Source MGI Symbol Acc MGI 95574
B10	UPFM090091 8	ENSMUST000000 206382.1	Gabra5	ENSMUSG00 000055078	gamma-aminobutyric acid (GABA) A receptor, subunit alpha 5 Source MGI Symbol Acc MGI 95617
B11	UPFM083519 1	ENSMUST000000 074694.6	Gnai1	ENSMUSG00 000057614	guanine nucleotide binding protein (G protein), alpha inhibiting 1 Source MGI Symbol Acc MGI 95771
B12	UPFM066499 7	ENSMUST000000 094179.10	Gria1	ENSMUSG00 000020524	glutamate receptor, ionotropic, AMPA1 (alpha 1) Source MGI Symbol Acc MGI 95808
C01	UPFM073325 3	ENSMUST000000 193645.5	Gria2	ENSMUSG00 000033981	glutamate receptor, ionotropic, AMPA2 (alpha 2) Source MGI Symbol Acc MGI 95809
C02	UPFM076116 0	ENSMUST000000 148212.1	Gria3	ENSMUSG00 000001986	glutamate receptor, ionotropic, AMPA3 (alpha 3) Source MGI Symbol Acc MGI 95810
C03	UPFM085696 4	ENSMUST000000 063508.14	Gria4	ENSMUSG00 000025892	glutamate receptor, ionotropic, AMPA4 (alpha 4) Source MGI Symbol Acc MGI 95811
C04	UPFM066058 1	ENSMUST000000 114312.1	Grin1	ENSMUSG00 000026959	glutamate receptor, ionotropic, NMDA1 (zeta 1) Source MGI Symbol Acc MGI 95819
C05	UPFM091721 9	ENSMUST000000 199708.4	Grin2a	ENSMUSG00 000059003	glutamate receptor, ionotropic, NMDA2A (epsilon 1) Source MGI Symbol Acc MGI 95820
C06	UPFM077461 0	ENSMUST000000 143943.7	Grin2b	ENSMUSG00 000030209	glutamate receptor, ionotropic, NMDA2B (epsilon 2) Source MGI Symbol Acc MGI 95821
C07	UPFM089258 5	ENSMUST000000 003351.12	Grin2c	ENSMUSG00 000020734	glutamate receptor, ionotropic, NMDA2C (epsilon 3) Source MGI Symbol Acc MGI 95822
C08	UPFM074900 0	ENSMUST000000 002848.9	Grin2d	ENSMUSG00 000002771	glutamate receptor, ionotropic, NMDA2D (epsilon 4) Source MGI Symbol Acc MGI 95823
C09	UPFM081161 0	ENSMUST000000 138410.7	Grip1	ENSMUSG00 000034813	glutamate receptor interacting protein 1 Source MGI Symbol Acc MGI 1921303
C10	UPFM075534 6	ENSMUST000000 105561.8	Grm1	ENSMUSG00 000019828	glutamate receptor, metabotropic 1 Source MGI Symbol Acc MGI 1351338
	UPFM084574	ENSMUST000000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	1	200826.3	Grm2	000023192	glutamate receptor, metabotropic 2 Source MGI Symbol Acc MGI 1351339
C12	UPFM0954138	ENSMUST0000004076.4	Grm3	ENSMUSG0000003974	glutamate receptor, metabotropic 3 Source MGI Symbol Acc MGI 1351340
D01	UPFM0738559	ENSMUST00000147865.1	Grm4	ENSMUSG00000063239	glutamate receptor, metabotropic 4 Source MGI Symbol Acc MGI 1351341
D02	UPFM1003720	ENSMUST00000138732.2	Grm5	ENSMUSG00000049583	glutamate receptor, metabotropic 5 Source MGI Symbol Acc MGI 1351342
D03	UPFM0638166	ENSMUST00000071076.12	Grm7	ENSMUSG00000056755	glutamate receptor, metabotropic 7 Source MGI Symbol Acc MGI 1351344
D04	UPFM0766662	ENSMUST00000115324.8	Grm8	ENSMUSG00000024211	glutamate receptor, metabotropic 8 Source MGI Symbol Acc MGI 1351345
D05	UPFM0721308	ENSMUST00000080127.11	Homer1	ENSMUSG0000007617	homer scaffolding protein 1 Source MGI Symbol Acc MGI 1347345
D06	UPFM0929418	ENSMUST00000121161.7	Igf1	ENSMUSG00000020053	insulin-like growth factor 1 Source MGI Symbol Acc MGI 96432
D07	UPFM0811177	ENSMUST00000164993.1	Inhba	ENSMUSG00000041324	inhibin beta-A Source MGI Symbol Acc MGI 96570
D08	UPFM0975216	ENSMUST00000107094.1	Jun	ENSMUSG00000052684	jun proto-oncogene Source MGI Symbol Acc MGI 96646
D09	UPFM0904521	ENSMUST00000064922.6	Junb	ENSMUSG00000052837	jun B proto-oncogene Source MGI Symbol Acc MGI 96647
D10	UPFM0643336	ENSMUST00000105818.7	Kif17	ENSMUSG00000028758	kinesin family member 17 Source MGI Symbol Acc MGI 1098229
D11	UPFM0942350	ENSMUST00000074043.6	Klf10	ENSMUSG00000037465	Kruppel-like factor 10 Source MGI Symbol Acc MGI 1101353
D12	UPFM0666259	ENSMUST00000232611.1	Mapk1	ENSMUSG00000063358	mitogen-activated protein kinase 1 Source MGI Symbol Acc MGI 1346858
E01	UPFM0799308	ENSMUST00000017881.2	Mmp9	ENSMUSG00000017737	matrix metalloproteinase 9 Source MGI Symbol Acc MGI 97011
E02	UPFM0684127	ENSMUST00000166811.8	Ncam1	ENSMUSG00000039542	neural cell adhesion molecule 1 Source MGI Symbol Acc MGI 97281
E03	UPFM0987587	ENSMUST00000029812.13	Nfkb1	ENSMUSG00000028163	nuclear factor of kappa light polypeptide gene enhancer in B cells 1, p105 Source MGI Symbol Acc MGI 97312
E04	UPFM0913139	ENSMUST00000032815.10	Nfkbib	ENSMUSG00000030595	nuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor, beta Source MGI Symbol Acc MGI 104752
E05	UPFM0758290	ENSMUST00000106925.8	Ngf	ENSMUSG00000027859	nerve growth factor Source MGI Symbol Acc MGI 97321
E06	UPFM0926802	ENSMUST00000000122.6	Ngfr	ENSMUSG00000000120	nerve growth factor receptor (TNFR superfamily, member 16) Source MGI Symbol Acc MGI 97323
E07	UPFM0622341	ENSMUST00000142742.8	Nos1	ENSMUSG00000029361	nitric oxide synthase 1, neuronal Source MGI Symbol Acc MGI 97360
E08	UPFM0944245	ENSMUST00000071782.7	Nptx2	ENSMUSG00000059991	neuronal pentraxin 2 Source MGI Symbol Acc MGI 1858209
E09	UPFM0715024	ENSMUST00000023779.7	Nr4a1	ENSMUSG00000023034	nuclear receptor subfamily 4, group A, member 1 Source MGI Symbol Acc MGI 1352454
E10	UPFM0823886	ENSMUST00000112244.7	Ntf3	ENSMUSG00000049107	neurotrophin 3 Source MGI Symbol Acc MGI 97380
E11	UPFM0810390	ENSMUST00000058879.7	Ntf5	ENSMUSG00000074121	neurotrophin 5 Source MGI Symbol Acc MGI 97381
E12	UPFM0862157	ENSMUST00000225583.1	Ntrk2	ENSMUSG00000055254	neurotrophic tyrosine kinase, receptor, type 2 Source MGI Symbol Acc MGI 97384
F01	UPFM0791296	ENSMUST00000195034.1	Pcdh8	ENSMUSG00000036422	protocadherin 8 Source MGI Symbol Acc MGI 1306800
F02	UPFM0671879	ENSMUST00000168513.8	Pick1	ENSMUSG00000068206	protein interacting with C kinase 1 Source MGI Symbol Acc MGI 894645
F03	UPFM1126278	ENSMUST00000234294.1	Pim1	ENSMUSG00000024014	proviral integration site 1 Source MGI Symbol Acc MGI 97584
F04	UPFM0932047	ENSMUST00000033941.6	Plat	ENSMUSG00000031538	plasminogen activator, tissue Source MGI Symbol Acc MGI 97610
F05	UPFM0972762	ENSMUST00000109462.7	Plcg1	ENSMUSG0000016933	phospholipase C, gamma 1 Source MGI Symbol Acc MGI 97615
F06	UPFM0785709	ENSMUST00000236181.1	Ppp1ca	ENSMUSG00000040385	protein phosphatase 1 catalytic subunit alpha Source MGI Symbol Acc MGI 103016
F07	UPFM0787522	ENSMUST00000197730.1	Ppp1cc	ENSMUSG00000004455	protein phosphatase 1 catalytic subunit gamma Source MGI Symbol Acc MGI 104872
F08	UPFM0960582	ENSMUST00000207714.1	Ppp1r14a	ENSMUSG00000037166	protein phosphatase 1, regulatory inhibitor subunit 14A Source MGI Symbol Acc MGI 1931139
F09	UPFM0986726	ENSMUST00000020608.2	Ppp2ca	ENSMUSG00000020349	protein phosphatase 2 (formerly 2A), catalytic subunit, alpha isoform Source MGI Symbol Acc MGI 1321159
F10	UPFM1005946	ENSMUST00000070198.13	Ppp3ca	ENSMUSG00000028161	protein phosphatase 3, catalytic subunit, alpha isoform Source MGI Symbol Acc MGI 107164

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM091650 2	ENSMUST00000 100302.3	Prkca	ENSMUSG00 000050965	protein kinase C, alpha Source MGI Symbol Acc MGI 97595
F12	UPFM065985 0	ENSMUST00000 100301.10	Prkcg	ENSMUSG00 000078816	protein kinase C, gamma Source MGI Symbol Acc MGI 97597
G01	UPFM096976 6	ENSMUST00000 065067.13	Prkg1	ENSMUSG00 000052920	protein kinase, cGMP-dependent, type I Source MGI Symbol Acc MGI 108174
G02	UPFM099835 1	ENSMUST00000 034301.11	Rab3a	ENSMUSG00 000031840	RAB3A, member RAS oncogene family Source MGI Symbol Acc MGI 97843
G03	UPFM081915 5	ENSMUST00000 025867.5	Rela	ENSMUSG00 000024927	v-rel reticuloendotheliosis viral oncogene homolog A (avian) Source MGI Symbol Acc MGI 103290
G04	UPFM085888 7	ENSMUST00000 162876.1	Reln	ENSMUSG00 000042453	reelin Source MGI Symbol Acc MGI 103022
G05	UPFM080625 9	ENSMUST00000 127206.7	Rgs2	ENSMUSG00 000026360	regulator of G-protein signaling 2 Source MGI Symbol Acc MGI 1098271
G06	UPFM080993 1	ENSMUST00000 146310.1	Rheb	ENSMUSG00 000028945	Ras homolog enriched in brain Source MGI Symbol Acc MGI 97912
G07	UPFM091465 7	ENSMUST00000 177694.7	Sirt1	ENSMUSG00 000020063	sirtuin 1 Source MGI Symbol Acc MGI 2135607
G08	UPFM087348 3	ENSMUST00000 015749.6	Srf	ENSMUSG00 000015605	serum response factor Source MGI Symbol Acc MGI 106658
G09	UPFM071397 0	ENSMUST00000 097566.9	Synpo	ENSMUSG00 000043079	synaptopodin Source MGI Symbol Acc MGI 1099446
G10	UPFM079676 3	ENSMUST00000 009530.4	Timp1	ENSMUSG00 000001131	tissue inhibitor of metalloproteinase 1 Source MGI Symbol Acc MGI 98752
G11	UPFM063847 1	ENSMUST00000 025263.14	Tnf	ENSMUSG00 000024401	tumor necrosis factor Source MGI Symbol Acc MGI 104798
G12	UPFM068152 4	ENSMUST00000 135088.8	Ywhaq	ENSMUSG00 000076432	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein theta Source MGI Symbol Acc MGI 891963
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 µl reactions: 20 µl 8x gDNA Removal Mix, 10 µl Reverse Transcription Enzyme, 40 µl Reverse Transcription Mix (containing RT primers), 20 µl Internal Control RNA, 1.9 ml RNase-Free Water	205410
QuantiNova Probe RT-PCR Kit (100)*	For 100 x 20 µl reactions: 1 ml QuantiNova Probe RT-PCR Master Mix, 20 µl QuantiNova Probe RT Mix, 20 µl Internal Control RNA, 500 µl Yellow Template Dilution Buffer, 250 µl ROX Reference Dye, 1.9 µl RNase-Free Water	208352
QuantiNova Probe PCR Kit (100)*	For 100 x 20 µl reactions: 1 ml 2x QuantiNova Probe PCR Master Mix, 500 µl QuantiNova Yellow Template Dilution Buffer, 250 µl 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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