

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

Mouse Neurotransmitter Receptors

Cat. no. 249955 UPMM-060ZR

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	Adra1a	Adra1d	Adra2a	Adrb2	Adrb3	Avpr1a	Avpr1b	Brs3	Cckbr	Chrm1	Chrm4	Chrm5
B	Chma3	Chma4	Chma5	Chma6	Chma7	Chme	Cnr1	Drd1	Drd2	Drd5	Gabbr1	Gabbr2
C	Gabra1	Gabra2	Gabra4	Gabra5	Gabra6	Gabrb1	Gabrb3	Gabrd	Gabre	Gabrg1	Gabrg2	Gabrg3
D	Gabraq	Gabbr1	Gabbr2	Gcgr	Gria1	Gria2	Gria3	Grik1	Grik2	Grik4	Grik5	Grin1
E	Grin2a	Grin2b	Grin2c	Grm1	Grm3	Grm4	Grm5	Grm6	Grm7	Grm8	Grpr	Hcrtr2
F	Hrh1	Hrh4	Htr1a	Htr1b	Htr1d	Htr1f	Htr2a	Htr2b	Htr2c	Htr3a	Htr4	Htr7
G	Npy2r	Npy5r	Ntr2	Oxtr	Prokr2	Sstr1	Sstr2	Sstr4	Tacr1	Tacr2	Tacr3	Tspo
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	UPFM094894 6	ENSMUST00000 159068.1	Adra1a	ENSMUSG00 000045875	adrenergic receptor, alpha 1a Source MGI Symbol Acc MGI 104773
A02	UPFM067017 8	ENSMUST00000 103184.3	Adra1d	ENSMUSG00 000027335	adrenergic receptor, alpha 1d Source MGI Symbol Acc MGI 106673
A03	UPFM084795 8	ENSMUST00000 036700.6	Adra2a	ENSMUSG00 000033717	adrenergic receptor, alpha 2a Source MGI Symbol Acc MGI 87934
A04	UPFM086644 3	ENSMUST00000 053640.4	Adrb2	ENSMUSG00 000045730	adrenergic receptor, beta 2 Source MGI Symbol Acc MGI 87938
A05	UPFM069450 3	ENSMUST00000 211346.1	Adrb3	ENSMUSG00 000031489	adrenergic receptor, beta 3 Source MGI Symbol Acc MGI 87939
A06	UPFM094966 6	ENSMUST00000 020323.6	Avpr1a	ENSMUSG00 000020123	arginine vasopressin receptor 1A Source MGI Symbol Acc MGI 1859216
A07	UPFM064121 6	ENSMUST00000 190410.1	Avpr1b	ENSMUSG00 000026432	arginine vasopressin receptor 1B Source MGI Symbol Acc MGI 1347010
A08	UPFM099756 8	ENSMUST00000 033464.3	Brs3	ENSMUSG00 000031130	bombesin-like receptor 3 Source MGI Symbol Acc MGI 1100501
A09	UPFM085886 2	ENSMUST00000 181339.7	Cckbr	ENSMUSG00 000030898	cholecystokinin B receptor Source MGI Symbol Acc MGI 99479
A10	UPFM085835 5	ENSMUST00000 035444.9	Chrm1	ENSMUSG00 000032773	cholinergic receptor, muscarinic 1, CNS Source MGI Symbol Acc MGI 88396
A11	UPFM063798 5	ENSMUST00000 045537.3	Chrm4	ENSMUSG00 000040495	cholinergic receptor, muscarinic 4 Source MGI Symbol Acc MGI 88399
A12	UPFM086897 1	ENSMUST00000 099589.3	Chrm5	ENSMUSG00 000074939	cholinergic receptor, muscarinic 5 Source MGI Symbol Acc MGI 109248
B01	UPFM067635 3	ENSMUST00000 034851.5	Chrna3	ENSMUSG00 000032303	cholinergic receptor, nicotinic, alpha polypeptide 3 Source MGI Symbol Acc MGI 87887
B02	UPFM095100 4	ENSMUST00000 135766.4	Chrna4	ENSMUSG00 000027577	cholinergic receptor, nicotinic, alpha polypeptide 4 Source MGI Symbol Acc MGI 87888
B03	UPFM080126 4	ENSMUST00000 217408.1	Chrna5	ENSMUSG00 000035594	cholinergic receptor, nicotinic, alpha polypeptide 5 Source MGI Symbol Acc MGI 87889
B04	UPFM062757 9	ENSMUST00000 033882.9	Chrna6	ENSMUSG00 000031491	cholinergic receptor, nicotinic, alpha polypeptide 6 Source MGI Symbol Acc MGI 106213
B05	UPFM086240 7	ENSMUST00000 208304.1	Chrna7	ENSMUSG00 000030525	cholinergic receptor, nicotinic, alpha polypeptide 7 Source MGI Symbol Acc MGI 99779
B06	UPFM082682 0	ENSMUST00000 014753.8	Chrne	ENSMUSG00 000014609	cholinergic receptor, nicotinic, epsilon polypeptide Source MGI Symbol Acc MGI 87894
B07	UPFM077796 2	ENSMUST00000 057188.6	Cnr1	ENSMUSG00 000044288	cannabinoid receptor 1 (brain) Source MGI Symbol Acc MGI 104615
B08	UPFM082760 2	ENSMUST00000 021932.5	Drd1	ENSMUSG00 000021478	dopamine receptor D1 Source MGI Symbol Acc MGI 99578
B09	UPFM085072 5	ENSMUST00000 075764.7	Drd2	ENSMUSG00 000032259	dopamine receptor D2 Source MGI Symbol Acc MGI 94924
B10	UPFM092993 2	ENSMUST00000 041646.3	Drd5	ENSMUSG00 000039358	dopamine receptor D5 Source MGI Symbol Acc MGI 94927
B11	UPFM085648 0	ENSMUST00000 174347.1	Gabbr1	ENSMUSG00 000024462	gamma-aminobutyric acid (GABA) B receptor, 1 Source MGI Symbol Acc MGI 1860139
B12	UPFM062782 5	ENSMUST00000 205643.1	Gabbr2	ENSMUSG00 000039809	gamma-aminobutyric acid (GABA) B receptor, 2 Source MGI Symbol Acc MGI 2386030
C01	UPFM066673 8	ENSMUST00000 153147.2	Gabra1	ENSMUSG00 000010803	gamma-aminobutyric acid (GABA) A receptor, subunit alpha 1 Source MGI Symbol Acc MGI 95613
C02	UPFM080444 4	ENSMUST00000 198625.4	Gabra2	ENSMUSG00 000000560	gamma-aminobutyric acid (GABA) A receptor, subunit alpha 2 Source MGI Symbol Acc MGI 95614
C03	UPFM082730 4	ENSMUST00000 199357.1	Gabra4	ENSMUSG00 000029211	gamma-aminobutyric acid (GABA) A receptor, subunit alpha 4 Source MGI Symbol Acc MGI 95616
C04	UPFM090091 8	ENSMUST00000 206382.1	Gabra5	ENSMUSG00 000055078	gamma-aminobutyric acid (GABA) A receptor, subunit alpha 5 Source MGI Symbol Acc MGI 95617
C05	UPFM086059 5	ENSMUST00000 155218.8	Gabra6	ENSMUSG00 000020428	gamma-aminobutyric acid (GABA) A receptor, subunit alpha 6 Source MGI Symbol Acc MGI 95618
C06	UPFM099903 1	ENSMUST00000 199967.4	Gabbr1	ENSMUSG00 000029212	gamma-aminobutyric acid (GABA) A receptor, subunit beta 1 Source MGI Symbol Acc MGI 95619
C07	UPFM097114 2	ENSMUST00000 138350.1	Gabbr3	ENSMUSG00 000033676	gamma-aminobutyric acid (GABA) A receptor, subunit beta 3 Source MGI Symbol Acc MGI 95621
C08	UPFM073242 3	ENSMUST00000 150423.7	Gabrd	ENSMUSG00 000029054	gamma-aminobutyric acid (GABA) A receptor, subunit delta Source MGI Symbol Acc MGI 95622
C09	UPFM089532 5	ENSMUST00000 153740.1	Gabre	ENSMUSG00 000031340	gamma-aminobutyric acid (GABA) A receptor, subunit epsilon Source MGI Symbol Acc MGI 1330235
C10	UPFM089044 8	ENSMUST00000 199705.1	Gabrg1	ENSMUSG00 000001260	gamma-aminobutyric acid (GABA) A receptor, subunit gamma 1 Source MGI Symbol Acc MGI 103156
	UPFM069705	ENSMUST00000		ENSMUSG00	gamma-aminobutyric acid (GABA) A receptor, subunit gamma 2 Source MGI

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	4	070735.9	Gabrg2	000020436	Symbol Acc MGI 95623
C12	UPFM088181 8	ENSMUST00000 068394.6	Gabrg3	ENSMUSG00 000055026	gamma-aminobutyric acid (GABA) A receptor, subunit gamma 3 Source MGI Symbol Acc MGI 95624
D01	UPFM092388 0	ENSMUST00000 033711.5	Gabrq	ENSMUSG00 000031344	gamma-aminobutyric acid (GABA) A receptor, subunit theta Source MGI Symbol Acc MGI 1888498
D02	UPFM087912 7	ENSMUST00000 029947.5	Gabrr1	ENSMUSG00 000028280	gamma-aminobutyric acid (GABA) C receptor, subunit rho 1 Source MGI Symbol Acc MGI 95625
D03	UPFM095604 9	ENSMUST00000 108162.7	Gabrr2	ENSMUSG00 000023267	gamma-aminobutyric acid (GABA) C receptor, subunit rho 2 Source MGI Symbol Acc MGI 95626
D04	UPFM097461 2	ENSMUST00000 026119.7	Gcgr	ENSMUSG00 000025127	glucagon receptor Source MGI Symbol Acc MGI 99572
D05	UPFM066499 7	ENSMUST00000 094179.10	Gria1	ENSMUSG00 000020524	glutamate receptor, ionotropic, AMPA1 (alpha 1) Source MGI Symbol Acc MGI 95808
D06	UPFM073325 3	ENSMUST00000 193645.5	Gria2	ENSMUSG00 000033981	glutamate receptor, ionotropic, AMPA2 (alpha 2) Source MGI Symbol Acc MGI 95809
D07	UPFM076116 0	ENSMUST00000 148212.1	Gria3	ENSMUSG00 000001986	glutamate receptor, ionotropic, AMPA3 (alpha 3) Source MGI Symbol Acc MGI 95810
D08	UPFM100878 6	ENSMUST00000 072256.12	Grik1	ENSMUSG00 000022935	glutamate receptor, ionotropic, kainate 1 Source MGI Symbol Acc MGI 95814
D09	UPFM064751 5	ENSMUST00000 079751.8	Grik2	ENSMUSG00 000056073	glutamate receptor, ionotropic, kainate 2 (beta 2) Source MGI Symbol Acc MGI 95815
D10	UPFM069176 3	ENSMUST00000 034515.6	Grik4	ENSMUSG00 000032017	glutamate receptor, ionotropic, kainate 4 Source MGI Symbol Acc MGI 95817
D11	UPFM097428 9	ENSMUST00000 205661.1	Grik5	ENSMUSG00 000003378	glutamate receptor, ionotropic, kainate 5 (gamma 2) Source MGI Symbol Acc MGI 95818
D12	UPFM066058 1	ENSMUST00000 114312.1	Grin1	ENSMUSG00 000026959	glutamate receptor, ionotropic, NMDA1 (zeta 1) Source MGI Symbol Acc MGI 95819
E01	UPFM091721 9	ENSMUST00000 199708.4	Grin2a	ENSMUSG00 000059003	glutamate receptor, ionotropic, NMDA2A (epsilon 1) Source MGI Symbol Acc MGI 95820
E02	UPFM077461 0	ENSMUST00000 143943.7	Grin2b	ENSMUSG00 000030209	glutamate receptor, ionotropic, NMDA2B (epsilon 2) Source MGI Symbol Acc MGI 95821
E03	UPFM089258 5	ENSMUST00000 003351.12	Grin2c	ENSMUSG00 000020734	glutamate receptor, ionotropic, NMDA2C (epsilon 3) Source MGI Symbol Acc MGI 95822
E04	UPFM075534 6	ENSMUST00000 105561.8	Grm1	ENSMUSG00 000019828	glutamate receptor, metabotropic 1 Source MGI Symbol Acc MGI 1351338
E05	UPFM095413 8	ENSMUST00000 004076.4	Grm3	ENSMUSG00 000003974	glutamate receptor, metabotropic 3 Source MGI Symbol Acc MGI 1351340
E06	UPFM073855 9	ENSMUST00000 147865.1	Grm4	ENSMUSG00 000063239	glutamate receptor, metabotropic 4 Source MGI Symbol Acc MGI 1351341
E07	UPFM100372 0	ENSMUST00000 138732.2	Grm5	ENSMUSG00 000049583	glutamate receptor, metabotropic 5 Source MGI Symbol Acc MGI 1351342
E08	UPFM100753 4	ENSMUST00000 126890.1	Grm6	ENSMUSG00 000000617	glutamate receptor, metabotropic 6 Source MGI Symbol Acc MGI 1351343
E09	UPFM063816 6	ENSMUST00000 071076.12	Grm7	ENSMUSG00 000056755	glutamate receptor, metabotropic 7 Source MGI Symbol Acc MGI 1351344
E10	UPFM076666 2	ENSMUST00000 115324.8	Grm8	ENSMUSG00 000024211	glutamate receptor, metabotropic 8 Source MGI Symbol Acc MGI 1351345
E11	UPFM088853 2	ENSMUST00000 033730.2	Grpr	ENSMUSG00 000031364	gastrin releasing peptide receptor Source MGI Symbol Acc MGI 95836
E12	UPFM089540 1	ENSMUST00000 184757.1	Hcrtr2	ENSMUSG00 000032360	hypocretin (orexin) receptor 2 Source MGI Symbol Acc MGI 2680765
F01	UPFM076041 0	ENSMUST00000 160780.1	Hrh1	ENSMUSG00 000053004	histamine receptor H1 Source MGI Symbol Acc MGI 107619
F02	UPFM091930 8	ENSMUST00000 234565.1	Hrh4	ENSMUSG00 000037346	histamine receptor H4 Source MGI Symbol Acc MGI 2429635
F03	UPFM071045 4	ENSMUST00000 022235.5	Htr1a	ENSMUSG00 000021721	5-hydroxytryptamine (serotonin) receptor 1A Source MGI Symbol Acc MGI 96273
F04	UPFM064771 5	ENSMUST00000 051005.4	Htr1b	ENSMUSG00 000049511	5-hydroxytryptamine (serotonin) receptor 1B Source MGI Symbol Acc MGI 96274
F05	UPFM090151 0	ENSMUST00000 117699.1	Htr1d	ENSMUSG00 000070687	5-hydroxytryptamine (serotonin) receptor 1D Source MGI Symbol Acc MGI 96276
F06	UPFM081550 3	ENSMUST00000 063076.5	Htr1f	ENSMUSG00 000050783	5-hydroxytryptamine (serotonin) receptor 1F Source MGI Symbol Acc MGI 99842
F07	UPFM097357 9	ENSMUST00000 036653.4	Htr2a	ENSMUSG00 000034997	5-hydroxytryptamine (serotonin) receptor 2A Source MGI Symbol Acc MGI 109521
F08	UPFM112630 9	ENSMUST00000 155077.1	Htr2b	ENSMUSG00 000026228	5-hydroxytryptamine (serotonin) receptor 2B Source MGI Symbol Acc MGI 109323
F09	UPFM090742 9	ENSMUST00000 112831.2	Htr2c	ENSMUSG00 000041380	5-hydroxytryptamine (serotonin) receptor 2C Source MGI Symbol Acc MGI 96281
F10	UPFM073937 6	ENSMUST00000 217289.1	Htr3a	ENSMUSG00 000032269	5-hydroxytryptamine (serotonin) receptor 3A Source MGI Symbol Acc MGI 96282

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM093767 6	ENSMUST00000 237114.1	Htr4	ENSMUSG00 000026322	5 hydroxytryptamine (serotonin) receptor 4 Source MGI Symbol Acc MGI 109246
F12	UPFM093812 7	ENSMUST00000 164781.1	Htr7	ENSMUSG00 000024798	5-hydroxytryptamine (serotonin) receptor 7 Source MGI Symbol Acc MGI 99841
G01	UPFM069283 3	ENSMUST00000 029633.4	Npy2r	ENSMUSG00 000028004	neuropeptide Y receptor Y2 Source MGI Symbol Acc MGI 108418
G02	UPFM090254 4	ENSMUST00000 070810.7	Npy5r	ENSMUSG00 000044014	neuropeptide Y receptor Y5 Source MGI Symbol Acc MGI 108082
G03	UPFM074937 9	ENSMUST00000 221049.1	Ntsr2	ENSMUSG00 000020591	neurotensin receptor 2 Source MGI Symbol Acc MGI 108018
G04	UPFM061967 6	ENSMUST00000 053306.7	Oxtr	ENSMUSG00 000049112	oxytocin receptor Source MGI Symbol Acc MGI 109147
G05	UPFM080583 0	ENSMUST00000 142766.1	Prokr2	ENSMUSG00 000050558	prokineticin receptor 2 Source MGI Symbol Acc MGI 2181363
G06	UPFM072733 6	ENSMUST00000 110671.2	Sstr1	ENSMUSG00 000035431	somatostatin receptor 1 Source MGI Symbol Acc MGI 98327
G07	UPFM093389 3	ENSMUST00000 106630.1	Sstr2	ENSMUSG00 000047904	somatostatin receptor 2 Source MGI Symbol Acc MGI 98328
G08	UPFM088724 9	ENSMUST00000 109962.3	Sstr4	ENSMUSG00 000037014	somatostatin receptor 4 Source MGI Symbol Acc MGI 105372
G09	UPFM062175 6	ENSMUST00000 032122.10	Tacr1	ENSMUSG00 000030043	tachykinin receptor 1 Source MGI Symbol Acc MGI 98475
G10	UPFM078744 1	ENSMUST00000 020278.5	Tacr2	ENSMUSG00 000020081	tachykinin receptor 2 Source MGI Symbol Acc MGI 98477
G11	UPFM075126 6	ENSMUST00000 029822.5	Tacr3	ENSMUSG00 000028172	tachykinin receptor 3 Source MGI Symbol Acc MGI 892968
G12	UPFM075354 2	ENSMUST00000 047419.7	Tspo	ENSMUSG00 000041736	translocator protein Source MGI Symbol Acc MGI 88222
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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