

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

Mouse Neurotransmitter Receptors

Cat. no. 249950 SBMM-060ZA

For study focus gene expression analysis

Shipping and storage

QuantiNova LNA PCR Focus Panels are shipped at ambient temperature. Immediately upon receipt, they should be stored 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 PCR Focus Panels should be used together with the QuantiNova Reverse Transcription Kit for cDNA synthesis and the QuantiNova SYBR® Green PCR Kit (Mastermix) for PCR.

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

For the 384-well (4 × 96) PCR panels, genes are present in a staggered format. Refer to the QuantiNova LNA PCR System 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	Chrna3	Chrna4	Chrna5	Chrna6	Chrna7	Chrne	Cnr1	Drd1	Drd2	Drd5	Gabbr1	Gabbr2
C	Gabra1	Gabra2	Gabra4	Gabra5	Gabra6	Gabrb1	Gabrb3	Gabrd	Gabre	Gabrg1	Gabrg2	Gabrg3
D	Gabrq	Gabbr1	Gabbr2	Gcgr	Gria1	Gria2	Gria3	Grik1	Grik2	Grik4	Grik5	Grin1
E	Grin2a	Grin2b	Grin2c	Grm1	Grm3	Grm4	Grm5	Grm6	Grm7	Grm8	Grpr	Hcrt2
F	Htr1	Htr4	Htr1a	Htr1b	Htr1d	Htr1f	Htr2a	Htr2b	Htr2c	Htr3a	Htr4	Htr7
G	Npy2r	Npy5r	Ntsr2	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 PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	SBM0789211	ENSMUST00000160647.1	Adra1a	ENSMUSG0000045875	adrenergic receptor, alpha 1a Source MGI Symbol Acc MGI 104773
A02	SBM0697937	ENSMUST00000103184.3	Adra1d	ENSMUSG00000027335	adrenergic receptor, alpha 1d Source MGI Symbol Acc MGI 106673
A03	SBM0927196	ENSMUST00000036700.6	Adra2a	ENSMUSG00000033717	adrenergic receptor, alpha 2a Source MGI Symbol Acc MGI 87934
A04	SBM1025763	ENSMUST00000053640.4	Adrb2	ENSMUSG00000045730	adrenergic receptor, beta 2 Source MGI Symbol Acc MGI 87938
A05	SBM0825801	ENSMUST00000121838.1	Adrb3	ENSMUSG00000031489	adrenergic receptor, beta 3 Source MGI Symbol Acc MGI 87939
A06	SBM0804326	ENSMUST00000020323.6	Avpr1a	ENSMUSG00000020123	arginine vasopressin receptor 1A Source MGI Symbol Acc MGI 1859216
A07	SBM0729298	ENSMUST00000190410.1	Avpr1b	ENSMUSG00000026432	arginine vasopressin receptor 1B Source MGI Symbol Acc MGI 1347010
A08	SBM0753153	ENSMUST00000033464.3	Brs3	ENSMUSG00000031130	bombesin-like receptor 3 Source MGI Symbol Acc MGI 1100501
A09	SBM1074071	ENSMUST00000181339.7	Cckbr	ENSMUSG00000030898	cholecystokinin B receptor Source MGI Symbol Acc MGI 99479
A10	SBM0680219	ENSMUST00000177197.7	Chrm1	ENSMUSG00000032773	cholinergic receptor, muscarinic 1, CNS Source MGI Symbol Acc MGI 88396
A11	SBM1058907	ENSMUST00000045537.3	Chrm4	ENSMUSG00000040495	cholinergic receptor, muscarinic 4 Source MGI Symbol Acc MGI 88399
A12	SBM1060759	ENSMUST00000099589.3	Chrm5	ENSMUSG00000074939	cholinergic receptor, muscarinic 5 Source MGI Symbol Acc MGI 109248
B01	SBM1062115	ENSMUST00000034851.5	Chrna3	ENSMUSG00000032303	cholinergic receptor, nicotinic, alpha polypeptide 3 Source MGI Symbol Acc MGI 87887
B02	SBM0826587	ENSMUST00000108851.7	Chrna4	ENSMUSG00000027577	cholinergic receptor, nicotinic, alpha polypeptide 4 Source MGI Symbol Acc MGI 87888
B03	SBM0948013	ENSMUST00000217408.1	Chrna5	ENSMUSG00000035594	cholinergic receptor, nicotinic, alpha polypeptide 5 Source MGI Symbol Acc MGI 87889
B04	SBM0990637	ENSMUST00000033882.9	Chrna6	ENSMUSG00000031491	cholinergic receptor, nicotinic, alpha polypeptide 6 Source MGI Symbol Acc MGI 106213
B05	SBM0961501	ENSMUST00000208304.1	Chrna7	ENSMUSG00000030525	cholinergic receptor, nicotinic, alpha polypeptide 7 Source MGI Symbol Acc MGI 99779
B06	SBM0755789	ENSMUST00000102556.9	Chrne	ENSMUSG0000014609	cholinergic receptor, nicotinic, epsilon polypeptide Source MGI Symbol Acc MGI 87894
B07	SBM1037540	ENSMUST00000084736.2	Cnr1	ENSMUSG00000044288	cannabinoid receptor 1 (brain) Source MGI Symbol Acc MGI 104615
B08	SBM1085787	ENSMUST00000221470.1	Drd1	ENSMUSG00000021478	dopamine receptor D1 Source MGI Symbol Acc MGI 99578
B09	SBM0811566	ENSMUST00000075764.7	Drd2	ENSMUSG00000032259	dopamine receptor D2 Source MGI Symbol Acc MGI 94924
B10	SBM0801237	ENSMUST00000041646.3	Drd5	ENSMUSG00000039358	dopamine receptor D5 Source MGI Symbol Acc MGI 94927
B11	SBM1024680	ENSMUST00000173823.7	Gabbr1	ENSMUSG0000024462	gamma-aminobutyric acid (GABA) B receptor, 1 Source MGI Symbol Acc MGI 1860139
B12	SBM1093293	ENSMUST00000205643.1	Gabbr2	ENSMUSG00000039809	gamma-aminobutyric acid (GABA) B receptor, 2 Source MGI Symbol Acc MGI 2386030
C01	SBM0951405	ENSMUST00000207274.1	Gabra1	ENSMUSG0000010803	gamma-aminobutyric acid (GABA) A receptor, subunit alpha 1 Source MGI Symbol Acc MGI 95613
C02	SBM0953209	ENSMUST00000199012.1	Gabra2	ENSMUSG00000000560	gamma-aminobutyric acid (GABA) A receptor, subunit alpha 2 Source MGI Symbol Acc MGI 95614
C03	SBM1051147	ENSMUST00000199357.1	Gabra4	ENSMUSG0000029211	gamma-aminobutyric acid (GABA) A receptor, subunit alpha 4 Source MGI Symbol Acc MGI 95616
C04	SBM0911233	ENSMUST00000068456.7	Gabra5	ENSMUSG00000055078	gamma-aminobutyric acid (GABA) A receptor, subunit alpha 5 Source MGI Symbol Acc MGI 95617
C05	SBM0968345	ENSMUST00000155218.8	Gabra6	ENSMUSG0000020428	gamma-aminobutyric acid (GABA) A receptor, subunit alpha 6 Source MGI Symbol Acc MGI 95618
C06	SBM1071736	ENSMUST00000199967.4	Gabbr1	ENSMUSG0000029212	gamma-aminobutyric acid (GABA) A receptor, subunit beta 1 Source MGI Symbol Acc MGI 95619
C07	SBM0923097	ENSMUST00000156375.2	Gabbr3	ENSMUSG00000033676	gamma-aminobutyric acid (GABA) A receptor, subunit beta 3 Source MGI Symbol Acc MGI 95621
C08	SBM1077947	ENSMUST00000030925.2	Gabrd	ENSMUSG0000029054	gamma-aminobutyric acid (GABA) A receptor, subunit delta Source MGI Symbol Acc MGI 95622
C09	SBM0787633	ENSMUST00000153740.1	Gabre	ENSMUSG00000031340	gamma-aminobutyric acid (GABA) A receptor, subunit epsilon Source MGI Symbol Acc MGI 1330235
C10	SBM0736728	ENSMUST00000199705.1	Gabrg1	ENSMUSG0000001260	gamma-aminobutyric acid (GABA) A receptor, subunit gamma 1 Source MGI Symbol Acc MGI 103156
		ENSMUST00000		ENSMUSG00	gamma-aminobutyric acid (GABA) A receptor, subunit gamma 2 Source MGI

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM0974275	109290.1	Gabrg2	000020436	Symbol Acc MGI 95623
C12	SBM0966172	ENSMUST00000171965.1	Gabrg3	ENSMUSG0000055026	gamma-aminobutyric acid (GABA) A receptor, subunit gamma 3 Source MGI Symbol Acc MGI 95624
D01	SBM0799982	ENSMUST00000033711.5	Gabrq	ENSMUSG00000031344	gamma-aminobutyric acid (GABA) A receptor, subunit theta Source MGI Symbol Acc MGI 1888498
D02	SBM0693729	ENSMUST00000029947.5	Gabrr1	ENSMUSG00000028280	gamma-aminobutyric acid (GABA) C receptor, subunit rho 1 Source MGI Symbol Acc MGI 95625
D03	SBM0910494	ENSMUST00000024035.8	Gabrr2	ENSMUSG00000023267	gamma-aminobutyric acid (GABA) C receptor, subunit rho 2 Source MGI Symbol Acc MGI 95626
D04	SBM0812666	ENSMUST00000026119.7	Gcgr	ENSMUSG00000025127	glucagon receptor Source MGI Symbol Acc MGI 99572
D05	SBM0678185	ENSMUST000000151045.2	Gria1	ENSMUSG00000020524	glutamate receptor, ionotropic, AMPA1 (alpha 1) Source MGI Symbol Acc MGI 95808
D06	SBM0731930	ENSMUST000000193645.5	Gria2	ENSMUSG00000033981	glutamate receptor, ionotropic, AMPA2 (alpha 2) Source MGI Symbol Acc MGI 95809
D07	SBM0768049	ENSMUST00000076349.11	Gria3	ENSMUSG0000001986	glutamate receptor, ionotropic, AMPA3 (alpha 3) Source MGI Symbol Acc MGI 95810
D08	SBM0857766	ENSMUST00000023652.15	Grik1	ENSMUSG00000022935	glutamate receptor, ionotropic, kainate 1 Source MGI Symbol Acc MGI 95814
D09	SBM0739378	ENSMUST000000105484.9	Grik2	ENSMUSG00000056073	glutamate receptor, ionotropic, kainate 2 (beta 2) Source MGI Symbol Acc MGI 95815
D10	SBM1003185	ENSMUST000000114865.7	Grik4	ENSMUSG00000032017	glutamate receptor, ionotropic, kainate 4 Source MGI Symbol Acc MGI 95817
D11	SBM0937604	ENSMUST000000206134.1	Grik5	ENSMUSG00000003378	glutamate receptor, ionotropic, kainate 5 (gamma 2) Source MGI Symbol Acc MGI 95818
D12	SBM1029073	ENSMUST00000028335.12	Grin1	ENSMUSG00000026959	glutamate receptor, ionotropic, NMDA1 (zeta 1) Source MGI Symbol Acc MGI 95819
E01	SBM0858237	ENSMUST00000032331.7	Grin2a	ENSMUSG00000059003	glutamate receptor, ionotropic, NMDA2A (epsilon 1) Source MGI Symbol Acc MGI 95820
E02	SBM0896174	ENSMUST000000143943.7	Grin2b	ENSMUSG00000030209	glutamate receptor, ionotropic, NMDA2B (epsilon 2) Source MGI Symbol Acc MGI 95821
E03	SBM0824768	ENSMUST000000003351.12	Grin2c	ENSMUSG00000020734	glutamate receptor, ionotropic, NMDA2C (epsilon 3) Source MGI Symbol Acc MGI 95822
E04	SBM1018691	ENSMUST000000044306.12	Grm1	ENSMUSG00000019828	glutamate receptor, metabotropic 1 Source MGI Symbol Acc MGI 1351338
E05	SBM0768909	ENSMUST000000004076.4	Grm3	ENSMUSG00000003974	glutamate receptor, metabotropic 3 Source MGI Symbol Acc MGI 1351340
E06	SBM1039363	ENSMUST000000146277.7	Grm4	ENSMUSG00000063239	glutamate receptor, metabotropic 4 Source MGI Symbol Acc MGI 1351341
E07	SBM0928000	ENSMUST000000138732.2	Grm5	ENSMUSG00000049583	glutamate receptor, metabotropic 5 Source MGI Symbol Acc MGI 1351342
E08	SBM0824144	ENSMUST000000126890.1	Grm6	ENSMUSG00000000617	glutamate receptor, metabotropic 6 Source MGI Symbol Acc MGI 1351343
E09	SBM0686734	ENSMUST000000174018.7	Grm7	ENSMUSG00000056755	glutamate receptor, metabotropic 7 Source MGI Symbol Acc MGI 1351344
E10	SBM0928896	ENSMUST000000115324.8	Grm8	ENSMUSG00000004211	glutamate receptor, metabotropic 8 Source MGI Symbol Acc MGI 1351345
E11	SBM0893313	ENSMUST000000033730.2	Grpr	ENSMUSG00000031364	gastrin releasing peptide receptor Source MGI Symbol Acc MGI 95836
E12	SBM0885920	ENSMUST000000184757.1	Hcrtr2	ENSMUSG00000032360	hypocretin (orexin) receptor 2 Source MGI Symbol Acc MGI 2680765
F01	SBM0938648	ENSMUST000000161650.2	Hrh1	ENSMUSG00000053004	histamine receptor H1 Source MGI Symbol Acc MGI 107619
F02	SBM0841522	ENSMUST000000041676.2	Hrh4	ENSMUSG00000037346	histamine receptor H4 Source MGI Symbol Acc MGI 2429635
F03	SBM0817571	ENSMUST000000022235.5	Htr1a	ENSMUSG00000021721	5-hydroxytryptamine (serotonin) receptor 1A Source MGI Symbol Acc MGI 96273
F04	SBM0886564	ENSMUST000000051005.4	Htr1b	ENSMUSG00000049511	5-hydroxytryptamine (serotonin) receptor 1B Source MGI Symbol Acc MGI 96274
F05	SBM0853862	ENSMUST000000133818.1	Htr1d	ENSMUSG00000070687	5-hydroxytryptamine (serotonin) receptor 1D Source MGI Symbol Acc MGI 96276
F06	SBM0962447	ENSMUST000000063076.5	Htr1f	ENSMUSG00000050783	5-hydroxytryptamine (serotonin) receptor 1F Source MGI Symbol Acc MGI 99842
F07	SBM1031976	ENSMUST000000036653.4	Htr2a	ENSMUSG00000034997	5-hydroxytryptamine (serotonin) receptor 2A Source MGI Symbol Acc MGI 109521
F08	SBM0713511	ENSMUST000000155077.1	Htr2b	ENSMUSG00000026228	5-hydroxytryptamine (serotonin) receptor 2B Source MGI Symbol Acc MGI 109323
F09	SBM0688579	ENSMUST000000156697.7	Htr2c	ENSMUSG00000041380	5-hydroxytryptamine (serotonin) receptor 2C Source MGI Symbol Acc MGI 96281
F10	SBM0963266	ENSMUST00000003826.7	Htr3a	ENSMUSG00000032269	5-hydroxytryptamine (serotonin) receptor 3A Source MGI Symbol Acc MGI 96282

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM0694548	ENSMUST00000236691.1	Htr4	ENSMUSG00000026322	5 hydroxytryptamine (serotonin) receptor 4 Source MGI Symbol Acc MGI 109246
F12	SBM1063519	ENSMUST00000165215.7	Htr7	ENSMUSG00000024798	5-hydroxytryptamine (serotonin) receptor 7 Source MGI Symbol Acc MGI 99841
G01	SBM0685806	ENSMUST00000182181.7	Npy2r	ENSMUSG00000028004	neuropeptide Y receptor Y2 Source MGI Symbol Acc MGI 108418
G02	SBM1028207	ENSMUST00000070810.7	Npy5r	ENSMUSG00000044014	neuropeptide Y receptor Y5 Source MGI Symbol Acc MGI 108082
G03	SBM0936596	ENSMUST00000221049.1	Ntsr2	ENSMUSG00000020591	neurotensin receptor 2 Source MGI Symbol Acc MGI 108018
G04	SBM0862904	ENSMUST00000053306.7	Oxtr	ENSMUSG00000049112	oxytocin receptor Source MGI Symbol Acc MGI 109147
G05	SBM0934034	ENSMUST00000145995.1	Prokr2	ENSMUSG00000050558	prokineticin receptor 2 Source MGI Symbol Acc MGI 2181363
G06	SBM1045454	ENSMUST00000044299.2	Sstr1	ENSMUSG00000035431	somatostatin receptor 1 Source MGI Symbol Acc MGI 98327
G07	SBM0791847	ENSMUST00000146390.2	Sstr2	ENSMUSG00000047904	somatostatin receptor 2 Source MGI Symbol Acc MGI 98328
G08	SBM0859160	ENSMUST00000109962.3	Sstr4	ENSMUSG00000037014	somatostatin receptor 4 Source MGI Symbol Acc MGI 105372
G09	SBM0836174	ENSMUST00000203775.1	Tacr1	ENSMUSG00000030043	tachykinin receptor 1 Source MGI Symbol Acc MGI 98475
G10	SBM0716668	ENSMUST00000020278.5	Tacr2	ENSMUSG00000020081	tachykinin receptor 2 Source MGI Symbol Acc MGI 98477
G11	SBM0754371	ENSMUST00000029822.5	Tacr3	ENSMUSG00000028172	tachykinin receptor 3 Source MGI Symbol Acc MGI 892968
G12	SBM0701920	ENSMUST00000047419.7	Tspo	ENSMUSG00000041736	translocator protein Source MGI Symbol Acc MGI 88222
H01	SBM1220560	ENSMUST00000100497.10	Actb	ENSMUSG00000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	SBM0675336	ENSMUST00000102476.4	B2m	ENSMUSG00000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	SBM1220562	ENSMUST00000117757.8	Gapdh	ENSMUSG00000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	SBM1220563	ENSMUST00000026613.13	Gusb	ENSMUSG00000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	SBM1220564	ENSMUST00000166469.7	Hsp90ab1	ENSMUSG00000023944	heat shock protein 90 alpha (cytosolic), class B member 1 Source MGI Symbol Acc MGI 96247
H06	SBM1218554	Sybr_MGDC	MGDC	Sybr_MGDC	Mouse Genomic DNA Contamination
H07	SBH1218551	Sybr_QIC	QIC	Sybr_QIC	QuantiNova Internal Control
H08	SBH1218551	Sybr_QIC	QIC	Sybr_QIC	QuantiNova Internal Control
H09	SBH1218551	Sybr_QIC	QIC	Sybr_QIC	QuantiNova Internal Control
H10	SBH1218550	Sybr_PPC	PPC	Sybr_PPC	Positive PCR Control
H11	SBH1218550	Sybr_PPC	PPC	Sybr_PPC	Positive PCR Control
H12	SBH1218550	Sybr_PPC	PPC	Sybr_PPC	Positive PCR Control

Related products

Product	Contents	Cat. no.
QuantiNova LNA PCR QC Panel	These panels are designed to assess the quality of RNA samples before characterization using QuantiNova LNA PCR Focus Panels; available in 96-well, 384-well, and Rotor-Disc 100 formats	249940
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 SYBR Green RT-PCR Kit (100)*	For 100 x 20 μ l reactions: 1 ml QuantiNova SYBR Green RT-PCR Master Mix, 20 μ l QuantiNova SYBR Green 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	208152
QuantiNova SYBR Green PCR Kit (100)*	For 100 x 20 μ l reactions: 1 ml 2x QuantiNova SYBR Green PCR Master Mix, 500 μ l QuantiNova Yellow Template Dilution Buffer, 250 μ l QN ROX Reference Dye, 1.9 ml Water	208052

*Larger kit sizes available.

The QuantiNova LNA 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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