

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

Rat Neurotrophins & Receptors

Cat. no. 249950 SBRN-031ZA

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	Adcyap1r1	Artn	Bax	Bcl2	Bdnf	Cbln1	Cckar	Cd40	Cnif	Cnfr	Crh	Crhbp
B	Crhr1	Crhr2	Cx3cr1	Cxcr4	Fas	Fgl2	Fgf9	Fgfr1	Fos	Frs2	Frs3	Fus
C	Galr1	Galr2	Gdnf	AABR0700706 8.1	Gfra2	Gfra3	Gmfb	Gmfg	Grpr	Hcrt	Hcrt1	Hcrt2
D	Hspb1	Il10	Il10ra	Il1b	Il1r1	Il6	Il6r	Il6st	Lif	Lifr	Maged1	Mc2r
E	Itih3	Myc	Nell1	Nf1	Ngf	Ngfr	Bex3	Nptfr2	LOC1009122 28	Npy1r	Npy2r	Nr1h2
F	Nrg1	Nrg2	Ntf3	Ntf4	Ntrk1	Ntrk2	Ntsr1	Npy4r	Ptpn	Ptger2	Ntrk3	Stat2
G	Stat3	Stat1	Tacr1	Tfgr	Tgfa	Tgfb1	Tgfb1i1	Tp53	Ucn	Vgf	Zfp110	Zfp91
H	Actb	B2m	Hprt1	Ldha	Rplp1	RGDC	QIC	QIC	QIC	PPC	PPC	PPC

Gene table: QuantiNova LNA PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	SBR1112429	ENSRNOT00000016175.5	Adcyap1r1	ENSRNOG0000012098	ADCYAP receptor type 1 Source RGD Symbol Acc 2038
A02	SBR1133613	ENSRNOT00000026852.3	Artn	ENSRNOG0000019842	artemin Source RGD Symbol Acc 621427
A03	SBR1154566	ENSRNOT00000028328.5	Bax	ENSRNOG0000020876	BCL2 associated X, apoptosis regulator Source RGD Symbol Acc 2192
A04	SBR1170984	ENSRNOT00000003768.2	Bcl2	ENSRNOG0000002791	BCL2, apoptosis regulator Source RGD Symbol Acc 2199
A05	SBR1172593	ENSRNOT00000083542.1	Bdnf	ENSRNOG0000047466	brain-derived neurotrophic factor Source RGD Symbol Acc 2202
A06	SBR1143563	ENSRNOT00000000011.5	Cbln1	ENSRNOG0000000010	cerebellin 1 precursor Source RGD Symbol Acc 1562813
A07	SBR1145253	ENSRNOT00000065366.2	Cckar	ENSRNOG0000043124	cholecystokinin A receptor Source RGD Symbol Acc 2289
A08	SBR1146998	ENSRNOT00000055148.4	Cd40	ENSRNOG0000018488	CD40 molecule Source RGD Symbol Acc 619830
A09	SBR1188692	ENSRNOT00000016690.2	Cntf	ENSRNOG0000012460	ciliary neurotrophic factor Source RGD Symbol Acc 2370
A10	SBR1137541	ENSRNOT00000075777.2	Cnfr	ENSRNOG0000047307	ciliary neurotrophic factor receptor Source RGD Symbol Acc 1303100
A11	SBR1106994	ENSRNOT00000016953.2	Crh	ENSRNOG0000012703	corticotropin releasing hormone Source RGD Symbol Acc 620505
A12	SBR1218525	ENSRNOT00000024191.4	Crhbp	ENSRNOG0000017890	corticotropin releasing hormone binding protein Source RGD Symbol Acc 2403
B01	SBR1200775	ENSRNOT00000006764.7	Crhr1	ENSRNOG0000004900	corticotropin releasing hormone receptor 1 Source RGD Symbol Acc 61276
B02	SBR1199401	ENSRNOT00000014925.5	Crhr2	ENSRNOG0000011145	corticotropin releasing hormone receptor 2 Source RGD Symbol Acc 70547
B03	SBR1106590	ENSRNOT00000025019.2	Cx3cr1	ENSRNOG0000018509	C-X3-C motif chemokine receptor 1 Source RGD Symbol Acc 620137
B04	SBR1129817	ENSRNOT00000005143.6	Cxcr4	ENSRNOG0000003866	C-X-C motif chemokine receptor 4 Source RGD Symbol Acc 620465
B05	SBR1159525	ENSRNOT00000025928.5	Fas	ENSRNOG0000019142	Fas cell surface death receptor Source RGD Symbol Acc 619831
B06	SBR1185708	ENSRNOT00000023388.5	Fgf2	ENSRNOG0000017392	fibroblast growth factor 2 Source RGD Symbol Acc 2609
B07	SBR1156754	ENSRNOT00000015367.5	Fgf9	ENSRNOG0000011471	fibroblast growth factor 9 Source RGD Symbol Acc 2610
B08	SBR1139072	ENSRNOT00000029284.4	Fgfr1	ENSRNOG0000016050	Fibroblast growth factor receptor 1 Source RGD Symbol Acc 620713
B09	SBR1110295	ENSRNOT00000010712.3	Fos	ENSRNOG0000008015	Fos proto-oncogene, AP-1 transcription factor subunit Source RGD Symbol Acc 2626
B10	SBR1197544	ENSRNOT00000080983.1	Frs2	ENSRNOG0000005642	fibroblast growth factor receptor substrate 2 Source RGD Symbol Acc 1308201
B11	SBR1123626	ENSRNOT00000019404.4	Frs3	ENSRNOG0000014328	fibroblast growth factor receptor substrate 3 Source RGD Symbol Acc 1310226
B12	SBR1188948	ENSRNOT00000031891.4	Fus	ENSRNOG0000023360	FUS RNA binding protein Source RGD Symbol Acc 1308864
C01	SBR1174404	ENSRNOT00000022401.2	Galr1	ENSRNOG0000016654	galanin receptor 1 Source RGD Symbol Acc 2656
C02	SBR1137517	ENSRNOT00000075548.2	Galr2	ENSRNOG0000061733	galanin receptor type 2 Source RGD Symbol Acc 9251670
C03	SBR1188150	ENSRNOT00000041288.2	Gdnf	ENSRNOG0000012819	glial cell derived neurotrophic factor Source RGD Symbol Acc 2677
C04	SBR1203022	ENSRNOT00000023667.7	AABR07007068.1	ENSRNOG0000017438	
C05	SBR1211438	ENSRNOT00000019222.3	Gfra2	ENSRNOG0000014010	GDNF family receptor alpha 2 Source RGD Symbol Acc 61809
C06	SBR1157783	ENSRNOT00000027544.5	Gfra3	ENSRNOG0000020309	GDNF family receptor alpha 3 Source RGD Symbol Acc 620502
C07	SBR1213863	ENSRNOT00000075602.2	Gmfb	ENSRNOG0000047250	glia maturation factor, beta Source RGD Symbol Acc 70910
C08	SBR1170813	ENSRNOT00000026891.6	Gmfg	ENSRNOG0000019838	glia maturation factor, gamma Source RGD Symbol Acc 620506
C09	SBR1122754	ENSRNOT00000005559.6	Grpr	ENSRNOG0000004124	gastrin releasing peptide receptor Source RGD Symbol Acc 2750
C10	SBR1200379	ENSRNOT00000025547.3	Hcrt	ENSRNOG0000018892	hypocretin neuropeptide precursor Source RGD Symbol Acc 2786
		ENSRNOT000000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBR1146951	018674.6	Hctr1	000013838	hypocretin receptor 1 Source RGD Symbol Acc 2787
C12	SBR1093647	ENSRNOT00000 015824.4	Hctr2	ENSRNOG00 000011251	hypocretin receptor 2 Source RGD Symbol Acc 2788
D01	SBR1195680	ENSRNOT00000 031555.5	Hspb1	ENSRNOG00 000023546	heat shock protein family B (small) member 1 Source RGD Symbol Acc 61306
D02	SBR1123238	ENSRNOT00000 006246.5	Il10	ENSRNOG00 000004647	interleukin 10 Source RGD Symbol Acc 2886
D03	SBR1193747	ENSRNOT00000 021926.4	Il10ra	ENSRNOG00 000016308	interleukin 10 receptor subunit alpha Source RGD Symbol Acc 620138
D04	SBR1196387	ENSRNOT00000 006308.4	Il1b	ENSRNOG00 000004649	interleukin 1 beta Source RGD Symbol Acc 2891
D05	SBR1113457	ENSRNOT00000 019673.4	Il1r1	ENSRNOG00 000014504	interleukin 1 receptor type 1 Source RGD Symbol Acc 2892
D06	SBR1156877	ENSRNOT00000 013732.6	Il6	ENSRNOG00 000010278	interleukin 6 Source RGD Symbol Acc 2901
D07	SBR1135762	ENSRNOT00000 028234.7	Il6r	ENSRNOG00 000020811	interleukin 6 receptor Source RGD Symbol Acc 2902
D08	SBR1177389	ENSRNOT00000 018877.7	Il6st	ENSRNOG00 000013963	interleukin 6 signal transducer Source RGD Symbol Acc 2903
D09	SBR1155933	ENSRNOT00000 009313.4	Lif	ENSRNOG00 000007002	LIF, interleukin 6 family cytokine Source RGD Symbol Acc 620865
D10	SBR1216304	ENSRNOT00000 016036.4	Lifr	ENSRNOG00 000011696	LIF receptor alpha Source RGD Symbol Acc 621431
D11	SBR1129291	ENSRNOT00000 009870.6	Maged1	ENSRNOG00 000006756	MAGE family member D1 Source RGD Symbol Acc 70898
D12	SBR1152820	ENSRNOT00000 022347.5	Mc2r	ENSRNOG00 000016681	melanocortin 2 receptor Source RGD Symbol Acc 628649
E01	SBR1182586	ENSRNOT00000 025669.5	Mt3	ENSRNOG00 000018958	metallothionein 3 Source RGD Symbol Acc 621252
E02	SBR1106364	ENSRNOT00000 006188.5	Myc	ENSRNOG00 000004500	MYC proto-oncogene, bHLH transcription factor Source RGD Symbol Acc 3130
E03	SBR1113117	ENSRNOT00000 056030.4	Nell1	ENSRNOG00 000015675	neural EGFL like 1 Source RGD Symbol Acc 620998
E04	SBR1120157	ENSRNOT00000 089538.1	Nf1	ENSRNOG00 000013780	neurofibromin 1 Source RGD Symbol Acc 3168
E05	SBR1142365	ENSRNOT00000 078376.1	Ngf	ENSRNOG00 000016571	nerve growth factor Source RGD Symbol Acc 1598328
E06	SBR1176511	ENSRNOT00000 007268.3	Ngfr	ENSRNOG00 000005392	nerve growth factor receptor Source RGD Symbol Acc 3177
E07	SBR1176597	ENSRNOT00000 045997.4	Bex3	ENSRNOG00 000028822	brain expressed X-linked 3 Source RGD Symbol Acc 3148
E08	SBR1192514	ENSRNOT00000 004153.3	Npffr2	ENSRNOG00 000003067	neuropeptide FF receptor 2 Source RGD Symbol Acc 620168
E09	SBR1096384	ENSRNOT00000 013145.6	LOC10091 2228	ENSRNOG00 000009768	neuropeptide Y Source RGD Symbol Acc 3197
E10	SBR1137148	ENSRNOT00000 018952.6	Npy1r	ENSRNOG00 000014149	neuropeptide Y receptor Y1 Source RGD Symbol Acc 3198
E11	SBR1206097	ENSRNOT00000 072029.2	Npy2r	ENSRNOG00 000049213	neuropeptide Y receptor Y2 Source RGD Symbol Acc 620475
E12	SBR1097024	ENSRNOT00000 003934.4	Nr1i2	ENSRNOG00 000002906	nuclear receptor subfamily 1, group I, member 2 Source RGD Symbol Acc 69057
F01	SBR1158142	ENSRNOT00000 014147.6	Nrg1	ENSRNOG00 000010392	neuregulin 1 Source RGD Symbol Acc 621341
F02	SBR1141445	ENSRNOT00000 028713.7	Nrg2	ENSRNOG00 000019093	neuregulin 2 Source RGD Symbol Acc 1303302
F03	SBR1142304	ENSRNOT00000 082009.1	Nrf3	ENSRNOG00 000019716	neurotrophin 3 Source RGD Symbol Acc 619728
F04	SBR1208936	ENSRNOT00000 028194.2	Nrf4	ENSRNOG00 000020783	neurotrophin 4 Source RGD Symbol Acc 3212
F05	SBR1094048	ENSRNOT00000 018961.3	Ntrk1	ENSRNOG00 000013953	neurotrophic receptor tyrosine kinase 1 Source RGD Symbol Acc 620144
F06	SBR1097948	ENSRNOT00000 090914.1	Ntrk2	ENSRNOG00 000018839	neurotrophic receptor tyrosine kinase 2 Source RGD Symbol Acc 3213
F07	SBR1134393	ENSRNOT00000 082073.1	Ntsr1	ENSRNOG00 000028708	neurotensin receptor 1 Source RGD Symbol Acc 1306076
F08	SBR1210393	ENSRNOT00000 083105.1	Npy4r	ENSRNOG00 000061026	neuropeptide Y receptor Y4 Source RGD Symbol Acc 61864
F09	SBR1110636	ENSRNOT00000 071188.1	Pspn	ENSRNOG00 000049171	persephin Source RGD Symbol Acc 3432
F10	SBR1172436	ENSRNOT00000 075209.2	Ptger2	ENSRNOG00 000050968	prostaglandin E receptor 2 Source RGD Symbol Acc 620020

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBR1130209	ENSRNOT00000025536.5	Ntrk3	ENSRNOG0000018674	neurotrophic receptor tyrosine kinase 3 Source RGD Symbol Acc 3214
F12	SBR1094837	ENSRNOT00000088201.1	Stat2	ENSRNOG0000031081	signal transducer and activator of transcription 2 Source RGD Symbol Acc 1311649
G01	SBR1138417	ENSRNOT00000026760.4	Stat3	ENSRNOG0000019742	signal transducer and activator of transcription 3 Source RGD Symbol Acc 3772
G02	SBR1199428	ENSRNOT00000080522.1	Stat1	ENSRNOG0000014079	signal transducer and activator of transcription 4 Source RGD Symbol Acc 1305747
G03	SBR1116879	ENSRNOT00000007984.5	Tacr1	ENSRNOG0000005853	tachykinin receptor 1 Source RGD Symbol Acc 3811
G04	SBR1203612	ENSRNOT00000088152.1	Tfg	ENSRNOG0000001633	Trk-fused gene Source RGD Symbol Acc 1309751
G05	SBR1118717	ENSRNOT00000057441.4	Tgfa	ENSRNOG0000016182	transforming growth factor alpha Source RGD Symbol Acc 3849
G06	SBR1143485	ENSRNOT00000028051.4	Tgfb1	ENSRNOG0000020652	transforming growth factor, beta 1 Source RGD Symbol Acc 69051
G07	SBR1194847	ENSRNOT00000054980.3	Tgfb1i1	ENSRNOG0000019965	transforming growth factor beta 1 induced transcript 1 Source RGD Symbol Acc 620173
G08	SBR1172374	ENSRNOT00000046490.3	Tp53	ENSRNOG0000010756	tumor protein p53 Source RGD Symbol Acc 3889
G09	SBR1102719	ENSRNOT00000008037.2	Ucn	ENSRNOG0000006090	urocortin Source RGD Symbol Acc 3929
G10	SBR1138216	ENSRNOT00000041808.2	Vgf	ENSRNOG0000001416	VGF nerve growth factor inducible Source RGD Symbol Acc 69399
G11	SBR1122698	ENSRNOT00000026298.5	Zfp110	ENSRNOG0000031328	zinc finger protein 110 Source RGD Symbol Acc 1306339
G12	SBR1210309	ENSRNOT00000016804.6	Zfp91	ENSRNOG0000012524	zinc finger protein 91 Source RGD Symbol Acc 628736
H01	SBR1220567	ENSRNOT00000042459.4	Actb	ENSRNOG0000034254	actin, beta Source RGD Symbol Acc 628837
H02	SBR1220568	ENSRNOT00000023017.5	B2m	ENSRNOG0000017123	beta-2 microglobulin Source RGD Symbol Acc 2189
H03	SBR1225377	ENSRNOT00000065935.3	Hprt1	ENSRNOG0000048561	hypoxanthine phosphoribosyltransferase 1 Source RGD Symbol Acc 2826
H04	SBR1122313	ENSRNOT00000017468.2	Ldha	ENSRNOG0000013009	lactate dehydrogenase A Source RGD Symbol Acc 2996
H05	SBR1220572	ENSRNOT00000018820.5	Rplp1	ENSRNOG0000013874	ribosomal protein lateral stalk subunit P1 Source RGD Symbol Acc 621774
H06	SBR1218555	Sybr_RGDC	RGDC	Sybr_RGDC	Rat 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 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 SYBR Green RT-PCR Kit (100)*	For 100 x 20 µl reactions: 1 ml QuantiNova SYBR Green RT-PCR Master Mix, 20 µl QuantiNova SYBR Green RT Mix, 20 µl Internal Control RNA, 500 µl Yellow Template Dilution Buffer, 250 µl ROX Reference Dye, 1.9 µl RNase-Free Water	208152
QuantiNova SYBR Green PCR Kit (100)*	For 100 x 20 µl reactions: 1 ml 2x QuantiNova SYBR Green PCR Master Mix, 500 µl QuantiNova Yellow Template Dilution Buffer, 250 µl 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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