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

Human Neurotransmitter Receptors

Cat. no. 249950 SBHS-060ZR

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 (Rotor-Gene): QuantiNova LNA 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 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	GABRR1	GABRR2	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	HTR2C	HTR3A	HTR4	HTR7	NPY2R
G	NPY5R	NTSR2	OXTR	PROKR2	SCTR	SSTR1	SSTR2	SSTR4	TACR1	TACR2	TACR3	TSPO
H	ACTB	B2M	GAPDH	HPRT1	RPLP0	HGDC	QIC	QIC	QIC	PPC	PPC	PPC

Gene table: QuantiNova LNA PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	SBH0604482	ENST00000380573.3	ADRA1A	ENSG00000120907	adrenoceptor alpha 1A Source HGNC Symbol Acc HGNC 277
A02	SBH0314853	ENST00000379453.5	ADRA1D	ENSG00000171873	adrenoceptor alpha 1D Source HGNC Symbol Acc HGNC 280
A03	SBH0531587	ENST00000280155.3	ADRA2A	ENSG00000150594	adrenoceptor alpha 2A Source HGNC Symbol Acc HGNC 281
A04	SBH0519738	ENST00000305988.5	ADRB2	ENSG00000169252	adrenoceptor beta 2 Source HGNC Symbol Acc HGNC 286
A05	SBH0064559	ENST00000345060.5	ADRB3	ENSG00000188778	adrenoceptor beta 3 Source HGNC Symbol Acc HGNC 288
A06	SBH0085505	ENST00000550940.1	AVPR1A	ENSG00000166148	arginine vasopressin receptor 1A Source HGNC Symbol Acc HGNC 895
A07	SBH0242752	ENST00000367126.5	AVPR1B	ENSG00000198049	arginine vasopressin receptor 1B Source HGNC Symbol Acc HGNC 896
A08	SBH0439603	ENST00000370648.4	BRS3	ENSG00000102239	bombesin receptor subtype 3 Source HGNC Symbol Acc HGNC 1113
A09	SBH0114053	ENST00000525014.1	CCKBR	ENSG00000110148	cholecystokinin B receptor Source HGNC Symbol Acc HGNC 1571
A10	SBH0096334	ENST00000306960.4	CHRM1	ENSG00000168539	cholinergic receptor muscarinic 1 Source HGNC Symbol Acc HGNC 1950
A11	SBH0034731	ENST00000433765.3	CHRM4	ENSG00000180720	cholinergic receptor muscarinic 4 Source HGNC Symbol Acc HGNC 1953
A12	SBH0124319	ENST00000560035.1	CHRM5	ENSG00000184984	cholinergic receptor muscarinic 5 Source HGNC Symbol Acc HGNC 1954
B01	SBH0584315	ENST00000348639.7	CHRNA3	ENSG00000080644	cholinergic receptor nicotinic alpha 3 subunit Source HGNC Symbol Acc HGNC 1957
B02	SBH0600422	ENST00000627000.1	CHRNA4	ENSG00000101204	cholinergic receptor nicotinic alpha 4 subunit Source HGNC Symbol Acc HGNC 1958
B03	SBH0034680	ENST00000299565.9	CHRNA5	ENSG00000169684	cholinergic receptor nicotinic alpha 5 subunit Source HGNC Symbol Acc HGNC 1959
B04	SBH0262593	ENST00000276410.6	CHRNA6	ENSG00000147434	cholinergic receptor nicotinic alpha 6 subunit Source HGNC Symbol Acc HGNC 15963
B05	SBH0585154	ENST00000437966.3	CHRNA7	ENSG00000175344	cholinergic receptor nicotinic alpha 7 subunit Source HGNC Symbol Acc HGNC 1960
B06	SBH0435606	ENST00000649488.2	CHRNE	ENSG00000108556	cholinergic receptor nicotinic epsilon subunit Source HGNC Symbol Acc HGNC 1966
B07	SBH0064955	ENST00000428600.2	CNR1	ENSG00000118432	cannabinoid receptor 1 Source HGNC Symbol Acc HGNC 2159
B08	SBH0389175	ENST00000393752.3	DRD1	ENSG00000184845	dopamine receptor D1 Source HGNC Symbol Acc HGNC 3020
B09	SBH0344008	ENST00000535984.1	DRD2	ENSG00000149295	dopamine receptor D2 Source HGNC Symbol Acc HGNC 3023
B10	SBH0594176	ENST00000304374.3	DRD5	ENSG00000169676	dopamine receptor D5 Source HGNC Symbol Acc HGNC 3026
B11	SBH0467400	ENST00000486434.1	GABBR1	ENSG00000204681	gamma-aminobutyric acid type B receptor subunit 1 Source HGNC Symbol Acc HGNC 4070
B12	SBH0594090	ENST00000634314.1	GABBR2	ENSG00000136928	gamma-aminobutyric acid type B receptor subunit 2 Source HGNC Symbol Acc HGNC 4507
C01	SBH0635187	ENST00000393943.10	GABRA1	ENSG00000022355	gamma-aminobutyric acid type A receptor alpha1 subunit Source HGNC Symbol Acc HGNC 4075
C02	SBH0625160	ENST00000514090.5	GABRA2	ENSG00000151834	gamma-aminobutyric acid type A receptor alpha2 subunit Source HGNC Symbol Acc HGNC 4076
C03	SBH0042322	ENST00000502874.1	GABRA4	ENSG00000109158	gamma-aminobutyric acid type A receptor alpha4 subunit Source HGNC Symbol Acc HGNC 4078
C04	SBH0316016	ENST00000400081.7	GABRA5	ENSG00000186297	gamma-aminobutyric acid type A receptor alpha5 subunit Source HGNC Symbol Acc HGNC 4079
C05	SBH0561167	ENST00000523217.5	GABRA6	ENSG00000145863	gamma-aminobutyric acid type A receptor alpha6 subunit Source HGNC Symbol Acc HGNC 4080
C06	SBH0448214	ENST00000510909.1	GABRB1	ENSG00000163288	gamma-aminobutyric acid type A receptor beta1 subunit Source HGNC Symbol Acc HGNC 4081
C07	SBH0182587	ENST00000541819.6	GABRB3	ENSG00000166206	gamma-aminobutyric acid type A receptor beta3 subunit Source HGNC Symbol Acc HGNC 4083
C08	SBH0358366	ENST00000640949.1	GABRD	ENSG00000187730	gamma-aminobutyric acid type A receptor delta subunit Source HGNC Symbol Acc HGNC 4084
C09	SBH0565970	ENST00000370328.4	GABRE	ENSG00000102287	gamma-aminobutyric acid type A receptor epsilon subunit Source HGNC Symbol Acc HGNC 4085
C10	SBH0317313	ENST00000295452.5	GABRG1	ENSG00000163285	gamma-aminobutyric acid type A receptor gamma1 subunit Source HGNC Symbol Acc HGNC 4086
		ENST00000640		ENSG00000	gamma-aminobutyric acid type A receptor gamma2 subunit Source HGNC

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBH0291024	574.1	GABRG2	113327	Symbol Acc HGNC 4087
C12	SBH0607568	ENST00000555083.5	GABRG3	ENSG00000182256	gamma-aminobutyric acid type A receptor gamma3 subunit Source HGNC Symbol Acc HGNC 4088
D01	SBH0116154	ENST00000598523.3	GABRQ	ENSG00000268089	gamma-aminobutyric acid type A receptor theta subunit Source HGNC Symbol Acc HGNC 14454
D02	SBH0510247	ENST00000611484.4	GABRR1	ENSG00000146276	gamma-aminobutyric acid type A receptor rho1 subunit Source HGNC Symbol Acc HGNC 4090
D03	SBH0137095	ENST00000602432.1	GABRR2	ENSG00000111886	gamma-aminobutyric acid type A receptor rho2 subunit Source HGNC Symbol Acc HGNC 4091
D04	SBH0344353	ENST00000573428.1	GCGR	ENSG00000215644	glucagon receptor Source HGNC Symbol Acc HGNC 4192
D05	SBH0142065	ENST00000518783.1	GRIA1	ENSG00000155511	glutamate ionotropic receptor AMPA type subunit 1 Source HGNC Symbol Acc HGNC 4571
D06	SBH0300551	ENST00000296526.12	GRIA2	ENSG00000120251	glutamate ionotropic receptor AMPA type subunit 2 Source HGNC Symbol Acc HGNC 4572
D07	SBH0052841	ENST00000611689.4	GRIA3	ENSG00000125675	glutamate ionotropic receptor AMPA type subunit 3 Source HGNC Symbol Acc HGNC 4573
D08	SBH0604450	ENST00000399907.5	GRIK1	ENSG00000171189	glutamate ionotropic receptor kainate type subunit 1 Source HGNC Symbol Acc HGNC 4579
D09	SBH0051532	ENST00000413795.5	GRIK2	ENSG00000164418	glutamate ionotropic receptor kainate type subunit 2 Source HGNC Symbol Acc HGNC 4580
D10	SBH0567920	ENST00000638419.1	GRIK4	ENSG00000149403	glutamate ionotropic receptor kainate type subunit 4 Source HGNC Symbol Acc HGNC 4582
D11	SBH0069930	ENST00000301218.8	GRIK5	ENSG00000105737	glutamate ionotropic receptor kainate type subunit 5 Source HGNC Symbol Acc HGNC 4583
D12	SBH0229177	ENST00000371559.8	GRIN1	ENSG00000176884	glutamate ionotropic receptor NMDA type subunit 1 Source HGNC Symbol Acc HGNC 4584
E01	SBH0503624	ENST00000636273.1	GRIN2A	ENSG00000183454	glutamate ionotropic receptor NMDA type subunit 2A Source HGNC Symbol Acc HGNC 4585
E02	SBH0549412	ENST00000609686.3	GRIN2B	ENSG00000273079	glutamate ionotropic receptor NMDA type subunit 2B Source HGNC Symbol Acc HGNC 4586
E03	SBH0499611	ENST00000347612.4	GRIN2C	ENSG00000161509	glutamate ionotropic receptor NMDA type subunit 2C Source HGNC Symbol Acc HGNC 4587
E04	SBH0643522	ENST00000492807.6	GRM1	ENSG00000152822	glutamate metabotropic receptor 1 Source HGNC Symbol Acc HGNC 4593
E05	SBH0507437	ENST00000361669.6	GRM3	ENSG00000198822	glutamate metabotropic receptor 3 Source HGNC Symbol Acc HGNC 4595
E06	SBH0500018	ENST00000609278.1	GRM4	ENSG00000124493	glutamate metabotropic receptor 4 Source HGNC Symbol Acc HGNC 4596
E07	SBH0239510	ENST00000305432.9	GRM5	ENSG00000168959	glutamate metabotropic receptor 5 Source HGNC Symbol Acc HGNC 4597
E08	SBH0215272	ENST00000231188.9	GRM6	ENSG00000113262	glutamate metabotropic receptor 6 Source HGNC Symbol Acc HGNC 4598
E09	SBH0235729	ENST00000445087.1	GRM7	ENSG00000196277	glutamate metabotropic receptor 7 Source HGNC Symbol Acc HGNC 4599
E10	SBH0321111	ENST00000339582.6	GRM8	ENSG00000179603	glutamate metabotropic receptor 8 Source HGNC Symbol Acc HGNC 4600
E11	SBH0355522	ENST00000380289.2	GRPR	ENSG00000126010	gastrin releasing peptide receptor Source HGNC Symbol Acc HGNC 4609
E12	SBH0017971	ENST00000370862.3	HCRTR2	ENSG00000137252	hypocretin receptor 2 Source HGNC Symbol Acc HGNC 4849
F01	SBH0221143	ENST00000431010.2	HRH1	ENSG00000196639	histamine receptor H1 Source HGNC Symbol Acc HGNC 5182
F02	SBH0542686	ENST00000426880.2	HRH4	ENSG00000134489	histamine receptor H4 Source HGNC Symbol Acc HGNC 17383
F03	SBH0493351	ENST00000506598.1	HTR1A	ENSG00000178394	5-hydroxytryptamine receptor 1A Source HGNC Symbol Acc HGNC 5286
F04	SBH0198632	ENST00000369947.4	HTR1B	ENSG00000135312	5-hydroxytryptamine receptor 1B Source HGNC Symbol Acc HGNC 5287
F05	SBH0379050	ENST00000374619.1	HTR1D	ENSG00000179546	5-hydroxytryptamine receptor 1D Source HGNC Symbol Acc HGNC 5289
F06	SBH0566583	ENST00000319595.5	HTR1F	ENSG00000179097	5-hydroxytryptamine receptor 1F Source HGNC Symbol Acc HGNC 5292
F07	SBH0547087	ENST00000378688.8	HTR2A	ENSG00000102468	5-hydroxytryptamine receptor 2A Source HGNC Symbol Acc HGNC 5293
F08	SBH0560764	ENST00000371950.3	HTR2C	ENSG00000147246	5-hydroxytryptamine receptor 2C Source HGNC Symbol Acc HGNC 5295
F09	SBH0656917	ENST00000510849.5	HTR3A	ENSG00000166736	5-hydroxytryptamine receptor 3A Source HGNC Symbol Acc HGNC 5297
F10	SBH0671263	ENST00000521735.5	HTR4	ENSG00000164270	5-hydroxytryptamine receptor 4 Source HGNC Symbol Acc HGNC 5299

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBH0162397	ENST00000277874.10	HTR7	ENSG00000148680	5-hydroxytryptamine receptor 7 Source HGNC Symbol Acc HGNC 5302
F12	SBH0197177	ENST00000506608.1	NPY2R	ENSG00000185149	neuropeptide Y receptor Y2 Source HGNC Symbol Acc HGNC 7957
G01	SBH0632703	ENST00000338566.8	NPY5R	ENSG00000164129	neuropeptide Y receptor Y5 Source HGNC Symbol Acc HGNC 7958
G02	SBH0457728	ENST00000306928.6	NTSR2	ENSG00000169006	neurotensin receptor 2 Source HGNC Symbol Acc HGNC 8040
G03	SBH0343674	ENST00000316793.7	OXTR	ENSG00000180914	oxytocin receptor Source HGNC Symbol Acc HGNC 8529
G04	SBH0504020	ENST00000217270.3	PROKR2	ENSG00000101292	prokineticin receptor 2 Source HGNC Symbol Acc HGNC 15836
G05	SBH0541926	ENST00000630739.2	SCTR	ENSG00000080293	secretin receptor Source HGNC Symbol Acc HGNC 10608
G06	SBH0438397	ENST00000267377.3	SSTR1	ENSG00000139874	somatostatin receptor 1 Source HGNC Symbol Acc HGNC 11330
G07	SBH0022636	ENST00000579323.5	SSTR2	ENSG00000180616	somatostatin receptor 2 Source HGNC Symbol Acc HGNC 11331
G08	SBH0448104	ENST00000255008.4	SSTR4	ENSG00000132671	somatostatin receptor 4 Source HGNC Symbol Acc HGNC 11333
G09	SBH0301003	ENST00000409848.3	TACR1	ENSG00000115353	tachykinin receptor 1 Source HGNC Symbol Acc HGNC 11526
G10	SBH0326855	ENST00000373306.4	TACR2	ENSG00000075073	tachykinin receptor 2 Source HGNC Symbol Acc HGNC 11527
G11	SBH0044185	ENST00000304883.3	TACR3	ENSG00000169836	tachykinin receptor 3 Source HGNC Symbol Acc HGNC 11528
G12	SBH0289589	ENST00000329563.8	TSPO	ENSG00000100300	translocator protein Source HGNC Symbol Acc HGNC 1158
H01	SBH1220543	ENST00000646664.1	ACTB	ENSG00000075624	actin beta Source HGNC Symbol Acc HGNC 132
H02	SBH1220550	ENST00000558401.6	B2M	ENSG00000166710	beta-2-microglobulin Source HGNC Symbol Acc HGNC 914
H03	SBH1220545	ENST00000396861.5	GAPDH	ENSG00000111640	glyceraldehyde-3-phosphate dehydrogenase Source HGNC Symbol Acc HGNC 4141
H04	SBH1220546	ENST00000298556.8	HPRT1	ENSG00000165704	hypoxanthine phosphoribosyltransferase 1 Source HGNC Symbol Acc HGNC 5157
H05	SBH1220553	ENST00000546989.5	RPLP0	ENSG00000089157	ribosomal protein lateral stalk subunit P0 Source HGNC Symbol Acc HGNC 10371
H06	SBH1218553	Sybr_HGDC	HGDC	Sybr_HGDC	Human 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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