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

Human Neurotransmitter Receptors

Cat. no. 249955 UPHS-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	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 Probe PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	UPFH0101462	ENST00000380586.5	ADRA1A	ENSG00000120907	adrenoceptor alpha 1A Source HGNC Symbol Acc HGNC 277
A02	UPFH0065785	ENST00000379453.5	ADRA1D	ENSG00000171873	adrenoceptor alpha 1D Source HGNC Symbol Acc HGNC 280
A03	UPFH0530454	ENST00000280155.3	ADRA2A	ENSG00000150594	adrenoceptor alpha 2A Source HGNC Symbol Acc HGNC 281
A04	UPFH0552004	ENST00000305988.5	ADRB2	ENSG00000169252	adrenoceptor beta 2 Source HGNC Symbol Acc HGNC 286
A05	UPFH0554763	ENST00000520341.2	ADRB3	ENSG00000188778	adrenoceptor beta 3 Source HGNC Symbol Acc HGNC 288
A06	UPFH0337699	ENST00000550940.1	AVPR1A	ENSG00000166148	arginine vasopressin receptor 1A Source HGNC Symbol Acc HGNC 895
A07	UPFH0290173	ENST00000367126.5	AVPR1B	ENSG00000198049	arginine vasopressin receptor 1B Source HGNC Symbol Acc HGNC 896
A08	UPFH0135028	ENST00000370648.4	BRS3	ENSG00000102239	bombesin receptor subtype 3 Source HGNC Symbol Acc HGNC 1113
A09	UPFH0205822	ENST00000525462.1	CCKBR	ENSG00000110148	cholecystokinin B receptor Source HGNC Symbol Acc HGNC 1571
A10	UPFH0343877	ENST00000306960.4	CHRM1	ENSG00000168539	cholinergic receptor muscarinic 1 Source HGNC Symbol Acc HGNC 1950
A11	UPFH0473047	ENST00000433765.3	CHRM4	ENSG00000180720	cholinergic receptor muscarinic 4 Source HGNC Symbol Acc HGNC 1953
A12	UPFH0297437	ENST00000560035.1	CHRM5	ENSG00000184984	cholinergic receptor muscarinic 5 Source HGNC Symbol Acc HGNC 1954
B01	UPFH0472146	ENST00000348639.7	CHRNA3	ENSG00000080644	cholinergic receptor nicotinic alpha 3 subunit Source HGNC Symbol Acc HGNC 1957
B02	UPFH0038991	ENST00000463705.5	CHRNA4	ENSG00000101204	cholinergic receptor nicotinic alpha 4 subunit Source HGNC Symbol Acc HGNC 1958
B03	UPFH0603401	ENST00000559554.5	CHRNA5	ENSG00000169684	cholinergic receptor nicotinic alpha 5 subunit Source HGNC Symbol Acc HGNC 1959
B04	UPFH0057307	ENST00000530869.1	CHRNA6	ENSG00000147434	cholinergic receptor nicotinic alpha 6 subunit Source HGNC Symbol Acc HGNC 15963
B05	UPFH0451818	ENST00000636603.1	CHRNA7	ENSG00000175344	cholinergic receptor nicotinic alpha 7 subunit Source HGNC Symbol Acc HGNC 1960
B06	UPFH0153490	ENST00000649488.2	CHRNE	ENSG00000108556	cholinergic receptor nicotinic epsilon subunit Source HGNC Symbol Acc HGNC 1966
B07	UPFH0389304	ENST00000428600.2	CNR1	ENSG00000118432	cannabinoid receptor 1 Source HGNC Symbol Acc HGNC 2159
B08	UPFH0033353	ENST00000393752.3	DRD1	ENSG00000184845	dopamine receptor D1 Source HGNC Symbol Acc HGNC 3020
B09	UPFH0281781	ENST00000540600.5	DRD2	ENSG00000149295	dopamine receptor D2 Source HGNC Symbol Acc HGNC 3023
B10	UPFH0394985	ENST00000304374.3	DRD5	ENSG00000169676	dopamine receptor D5 Source HGNC Symbol Acc HGNC 3026
B11	UPFH0164714	ENST00000355973.7	GABBR1	ENSG00000204681	gamma-aminobutyric acid type B receptor subunit 1 Source HGNC Symbol Acc HGNC 4070
B12	UPFH0092214	ENST00000635462.1	GABBR2	ENSG00000136928	gamma-aminobutyric acid type B receptor subunit 2 Source HGNC Symbol Acc HGNC 4507
C01	UPFH0068179	ENST00000437025.6	GABRA1	ENSG00000022355	gamma-aminobutyric acid type A receptor alpha1 subunit Source HGNC Symbol Acc HGNC 4075
C02	UPFH0270683	ENST00000515082.5	GABRA2	ENSG00000151834	gamma-aminobutyric acid type A receptor alpha2 subunit Source HGNC Symbol Acc HGNC 4076
C03	UPFH0542390	ENST00000511523.5	GABRA4	ENSG00000109158	gamma-aminobutyric acid type A receptor alpha4 subunit Source HGNC Symbol Acc HGNC 4078
C04	UPFH0457490	ENST00000335625.10	GABRA5	ENSG00000186297	gamma-aminobutyric acid type A receptor alpha5 subunit Source HGNC Symbol Acc HGNC 4079
C05	UPFH0178986	ENST00000521520.1	GABRA6	ENSG00000145863	gamma-aminobutyric acid type A receptor alpha6 subunit Source HGNC Symbol Acc HGNC 4080
C06	UPFH0607068	ENST00000510909.1	GABRB1	ENSG00000163288	gamma-aminobutyric acid type A receptor beta1 subunit Source HGNC Symbol Acc HGNC 4081
C07	UPFH0006587	ENST00000636466.1	GABRB3	ENSG00000166206	gamma-aminobutyric acid type A receptor beta3 subunit Source HGNC Symbol Acc HGNC 4083
C08	UPFH0253853	ENST00000640030.1	GABRD	ENSG00000187730	gamma-aminobutyric acid type A receptor delta subunit Source HGNC Symbol Acc HGNC 4084
C09	UPFH0222188	ENST00000474932.1	GABRE	ENSG00000102287	gamma-aminobutyric acid type A receptor epsilon subunit Source HGNC Symbol Acc HGNC 4085
C10	UPFH0098678	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	UPFH0293048	739.1	GABRG2	113327	Symbol Acc HGNC 4087
C12	UPFH0561080	ENST00000554 696.5	GABRG3	ENSG00000 182256	gamma-aminobutyric acid type A receptor gamma3 subunit Source HGNC Symbol Acc HGNC 4088
D01	UPFH0010923	ENST00000598 523.3	GABRQ	ENSG00000 268089	gamma-aminobutyric acid type A receptor theta subunit Source HGNC Symbol Acc HGNC 14454
D02	UPFH0199763	ENST00000369 451.7	GABRR1	ENSG00000 146276	gamma-aminobutyric acid type A receptor rho1 subunit Source HGNC Symbol Acc HGNC 4090
D03	UPFH0261767	ENST00000402 938.3	GABRR2	ENSG00000 111886	gamma-aminobutyric acid type A receptor rho2 subunit Source HGNC Symbol Acc HGNC 4091
D04	UPFH0164429	ENST00000573 428.1	GCGR	ENSG00000 215644	glucagon receptor Source HGNC Symbol Acc HGNC 4192
D05	UPFH0113437	ENST00000448 073.8	GRIA1	ENSG00000 155511	glutamate ionotropic receptor AMPA type subunit 1 Source HGNC Symbol Acc HGNC 4571
D06	UPFH0500353	ENST00000505 888.1	GRIA2	ENSG00000 120251	glutamate ionotropic receptor AMPA type subunit 2 Source HGNC Symbol Acc HGNC 4572
D07	UPFH0324861	ENST00000620 581.4	GRIA3	ENSG00000 125675	glutamate ionotropic receptor AMPA type subunit 3 Source HGNC Symbol Acc HGNC 4573
D08	UPFH1125842	ENST00000399 907.5	GRIK1	ENSG00000 171189	glutamate ionotropic receptor kainate type subunit 1 Source HGNC Symbol Acc HGNC 4579
D09	UPFH0107945	ENST00000455 610.5	GRIK2	ENSG00000 164418	glutamate ionotropic receptor kainate type subunit 2 Source HGNC Symbol Acc HGNC 4580
D10	UPFH0457536	ENST00000438 375.2	GRIK4	ENSG00000 149403	glutamate ionotropic receptor kainate type subunit 4 Source HGNC Symbol Acc HGNC 4582
D11	UPFH0419824	ENST00000301 218.8	GRIK5	ENSG00000 105737	glutamate ionotropic receptor kainate type subunit 5 Source HGNC Symbol Acc HGNC 4583
D12	UPFH0460129	ENST00000371 561.8	GRIN1	ENSG00000 176884	glutamate ionotropic receptor NMDA type subunit 1 Source HGNC Symbol Acc HGNC 4584
E01	UPFH0484366	ENST00000562 109.5	GRIN2A	ENSG00000 183454	glutamate ionotropic receptor NMDA type subunit 2A Source HGNC Symbol Acc HGNC 4585
E02	UPFH0487402	ENST00000628 166.1	GRIN2B	ENSG00000 273079	glutamate ionotropic receptor NMDA type subunit 2B Source HGNC Symbol Acc HGNC 4586
E03	UPFH0497072	ENST00000293 190.10	GRIN2C	ENSG00000 161509	glutamate ionotropic receptor NMDA type subunit 2C Source HGNC Symbol Acc HGNC 4587
E04	UPFH0087489	ENST00000282 753.6	GRM1	ENSG00000 152822	glutamate metabotropic receptor 1 Source HGNC Symbol Acc HGNC 4593
E05	UPFH0572483	ENST00000439 827.1	GRM3	ENSG00000 198822	glutamate metabotropic receptor 3 Source HGNC Symbol Acc HGNC 4595
E06	UPFH0580909	ENST00000455 714.6	GRM4	ENSG00000 124493	glutamate metabotropic receptor 4 Source HGNC Symbol Acc HGNC 4596
E07	UPFH0485590	ENST00000305 447.4	GRM5	ENSG00000 168959	glutamate metabotropic receptor 5 Source HGNC Symbol Acc HGNC 4597
E08	UPFH0419705	ENST00000231 188.9	GRM6	ENSG00000 113262	glutamate metabotropic receptor 6 Source HGNC Symbol Acc HGNC 4598
E09	UPFH0562819	ENST00000440 923.7	GRM7	ENSG00000 196277	glutamate metabotropic receptor 7 Source HGNC Symbol Acc HGNC 4599
E10	UPFH0125894	ENST00000472 701.5	GRM8	ENSG00000 179603	glutamate metabotropic receptor 8 Source HGNC Symbol Acc HGNC 4600
E11	UPFH0606195	ENST00000380 289.2	GRPR	ENSG00000 126010	gastrin releasing peptide receptor Source HGNC Symbol Acc HGNC 4609
E12	UPFH0378548	ENST00000615 358.4	HCRTR2	ENSG00000 137252	hypocretin receptor 2 Source HGNC Symbol Acc HGNC 4849
F01	UPFH0089986	ENST00000397 056.1	HRH1	ENSG00000 196639	histamine receptor H1 Source HGNC Symbol Acc HGNC 5182
F02	UPFH0418118	ENST00000256 906.5	HRH4	ENSG00000 134489	histamine receptor H4 Source HGNC Symbol Acc HGNC 17383
F03	UPFH0122721	ENST00000323 865.4	HTR1A	ENSG00000 178394	5-hydroxytryptamine receptor 1A Source HGNC Symbol Acc HGNC 5286
F04	UPFH0383158	ENST00000369 947.4	HTR1B	ENSG00000 135312	5-hydroxytryptamine receptor 1B Source HGNC Symbol Acc HGNC 5287
F05	UPFH0450767	ENST00000374 619.1	HTR1D	ENSG00000 179546	5-hydroxytryptamine receptor 1D Source HGNC Symbol Acc HGNC 5289
F06	UPFH0453086	ENST00000319 595.5	HTR1F	ENSG00000 179097	5-hydroxytryptamine receptor 1F Source HGNC Symbol Acc HGNC 5292
F07	UPFH0492753	ENST00000543 956.4	HTR2A	ENSG00000 102468	5-hydroxytryptamine receptor 2A Source HGNC Symbol Acc HGNC 5293
F08	UPFH0615463	ENST00000371 951.5	HTR2C	ENSG00000 147246	5-hydroxytryptamine receptor 2C Source HGNC Symbol Acc HGNC 5295
F09	UPFH0106689	ENST00000355 556.6	HTR3A	ENSG00000 166736	5-hydroxytryptamine receptor 3A Source HGNC Symbol Acc HGNC 5297
F10	UPFH0134397	ENST00000362 016.6	HTR4	ENSG00000 164270	5-hydroxytryptamine receptor 4 Source HGNC Symbol Acc HGNC 5299

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFH0231778	ENST00000277874.10	HTR7	ENSG00000148680	5-hydroxytryptamine receptor 7 Source HGNC Symbol Acc HGNC 5302
F12	UPFH0055692	ENST00000506608.1	NPY2R	ENSG00000185149	neuropeptide Y receptor Y2 Source HGNC Symbol Acc HGNC 7957
G01	UPFH0160940	ENST00000515560.1	NPY5R	ENSG00000164129	neuropeptide Y receptor Y5 Source HGNC Symbol Acc HGNC 7958
G02	UPFH0565139	ENST00000306928.6	NTSR2	ENSG00000169006	neurotensin receptor 2 Source HGNC Symbol Acc HGNC 8040
G03	UPFH0049095	ENST00000316793.7	OXTR	ENSG00000180914	oxytocin receptor Source HGNC Symbol Acc HGNC 8529
G04	UPFH0339342	ENST00000217270.3	PROKR2	ENSG00000101292	prokineticin receptor 2 Source HGNC Symbol Acc HGNC 15836
G05	UPFH0433502	ENST00000019103.7	SCTR	ENSG00000080293	secretin receptor Source HGNC Symbol Acc HGNC 10608
G06	UPFH0352457	ENST00000267377.3	SSTR1	ENSG00000139874	somatostatin receptor 1 Source HGNC Symbol Acc HGNC 11330
G07	UPFH0146676	ENST00000579323.5	SSTR2	ENSG00000180616	somatostatin receptor 2 Source HGNC Symbol Acc HGNC 11331
G08	UPFH0513354	ENST00000255008.4	SSTR4	ENSG00000132671	somatostatin receptor 4 Source HGNC Symbol Acc HGNC 11333
G09	UPFH0340276	ENST00000409848.3	TACR1	ENSG00000115353	tachykinin receptor 1 Source HGNC Symbol Acc HGNC 11526
G10	UPFH0056060	ENST00000373306.4	TACR2	ENSG00000075073	tachykinin receptor 2 Source HGNC Symbol Acc HGNC 11527
G11	UPFH0112608	ENST00000304883.3	TACR3	ENSG00000169836	tachykinin receptor 3 Source HGNC Symbol Acc HGNC 11528
G12	UPFH0577162	ENST00000396265.4	TSPO	ENSG00000100300	translocator protein Source HGNC Symbol Acc HGNC 1158
H01	UPFH1132936	ENST00000646664.1	ACTB	ENSG00000075624	actin beta Source HGNC Symbol Acc HGNC 132
H02	UPFH1132937	ENST00000544417.5	B2M	ENSG00000166710	beta-2-microglobulin Source HGNC Symbol Acc HGNC 914
H03	UPFH1132938	ENST00000229239.10	GAPDH	ENSG00000111640	glyceraldehyde-3-phosphate dehydrogenase Source HGNC Symbol Acc HGNC 4141
H04	UPFH1132939	ENST00000298556.8	HPRT1	ENSG00000165704	hypoxanthine phosphoribosyltransferase 1 Source HGNC Symbol Acc HGNC 5157
H05	UPFH1132941	ENST00000392514.9	RPLP0	ENSG00000089157	ribosomal protein lateral stalk subunit P0 Source HGNC Symbol Acc HGNC 10371
H06	UPFH1126608	UPL_HGDC	HGDC	UPL_HGDC	Human 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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