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

Rat GABA & Glutamate

Cat. no. 249955 UPRN-152ZR

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	Abat	Adcy7	Adora1	Adora2a	Aldh5a1	App	Avp	Bdnf	Cacna1a	Cacna1b	Cdk5r1	Cln3
B	Dlg4	Gabbr1	Gabbr2	Gabra1	Gabra2	Gabra4	Gabra5	Gabra6	Gabrb1	Gabrb3	Gabrd	Gabre
C	Gabrg1	Gabrg2	Gabrg3	Gabrq	Gabrr1	Gabrr2	Gad1	Gls	Glul	Gnai1	Gnaq	Gphn
D	Gria1	Gria2	Gria3	Gria4	Grik1	Grik2	Grik4	Grik5	Grin1	Grin2a	Grin2b	Grin2c
E	Grm1	Grm2	Grm3	Grm4	Grm5	Grm6	Grm7	Grm8	Homer1	Homer2	Il1b	Itpr1
F	Mapk1	Nsf	P2rx7	Phgdh	Pla2g6	Plcb1	Prodh1	Shank2	Slc17a6	Slc17a7	Slc17a8	Slc1a1
G	Slc1a2	Slc1a3	Slc1a6	Slc1a7	Slc32a1	Slc38a1	Slc6a1	Slc6a11	Slc6a12	Slc6a13	Snca	Srr
H	Actb	B2m	Hprt1	Ldha	Rplp1	RGDC	QIC	QIC	QIC	PPC	PPC	PPC

Gene table: QuantiNova LNA Probe PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	UPFR1041340	ENSRNOT00000003633.4	Abat	ENSRNOG00000002636	4-aminobutyrate aminotransferase Source RGD Symbol Acc 620948
A02	UPFR1094398	ENSRNOT00000020700.5	Adcy7	ENSRNOG00000014776	adenylate cyclase 7 Source RGD Symbol Acc 619966
A03	UPFR1120851	ENSRNOT00000078993.1	Adora1	ENSRNOG00000003442	adenosine A1 receptor Source RGD Symbol Acc 2048
A04	UPFR1086017	ENSRNOT00000001759.3	Adora2a	ENSRNOG00000001302	adenosine A2a receptor Source RGD Symbol Acc 2049
A05	UPFR1109197	ENSRNOT00000031384.5	Aldh5a1	ENSRNOG00000023538	aldehyde dehydrogenase 5 family, member A1 Source RGD Symbol Acc 621422
A06	UPFR1021296	ENSRNOT00000044081.5	App	ENSRNOG00000006997	amyloid beta precursor protein Source RGD Symbol Acc 2139
A07	UPFR1013745	ENSRNOT00000028833.5	Avp	ENSRNOG00000021229	arginine vasopressin Source RGD Symbol Acc 2184
A08	UPFR1014257	ENSRNOT00000078543.1	Bdnf	ENSRNOG00000047466	brain-derived neurotrophic factor Source RGD Symbol Acc 2202
A09	UPFR1030802	ENSRNOT00000083448.1	Cacna1a	ENSRNOG00000052707	calcium voltage-gated channel subunit alpha1 A Source RGD Symbol Acc 2244
A10	UPFR1068111	ENSRNOT00000048945.4	Cacna1b	ENSRNOG00000004560	calcium voltage-gated channel subunit alpha1 B Source RGD Symbol Acc 628852
A11	UPFR1112984	ENSRNOT00000031746.2	Cdk5r1	ENSRNOG00000021685	cyclin-dependent kinase 5 regulatory subunit 1 Source RGD Symbol Acc 629472
A12	UPFR1072893	ENSRNOT00000025898.4	Cln3	ENSRNOG00000019103	CLN3, battenin Source RGD Symbol Acc 1359537
B01	UPFR1051584	ENSRNOT00000068493.2	Dlg4	ENSRNOG00000018526	discs large MAGUK scaffold protein 4 Source RGD Symbol Acc 68424
B02	UPFR1089695	ENSRNOT00000040232.6	Gabbr1	ENSRNOG00000000774	gamma-aminobutyric acid type B receptor subunit 1 Source RGD Symbol Acc 621537
B03	UPFR1038575	ENSRNOT00000011573.4	Gabbr2	ENSRNOG00000008431	gamma-aminobutyric acid type B receptor subunit 2 Source RGD Symbol Acc 619864
B04	UPFR1025377	ENSRNOT00000004725.7	Gabra1	ENSRNOG00000003512	gamma-aminobutyric acid type A receptor alpha1 subunit Source RGD Symbol Acc 61855
B05	UPFR1026213	ENSRNOT00000003197.7	Gabra2	ENSRNOG00000002349	gamma-aminobutyric acid type A receptor alpha2 subunit Source RGD Symbol Acc 61856
B06	UPFR1064826	ENSRNOT00000003191.6	Gabra4	ENSRNOG00000002336	gamma-aminobutyric acid type A receptor alpha4 subunit Source RGD Symbol Acc 621670
B07	UPFR1114425	ENSRNOT00000083894.1	Gabra5	ENSRNOG00000010803	gamma-aminobutyric acid type A receptor alpha 5 subunit Source RGD Symbol Acc 61859
B08	UPFR1043178	ENSRNOT00000004877.4	Gabra6	ENSRNOG00000003569	gamma-aminobutyric acid type A receptor alpha 6 subunit Source RGD Symbol Acc 61861
B09	UPFR1111806	ENSRNOT00000003170.3	Gabrb1	ENSRNOG00000002327	gamma-aminobutyric acid type A receptor beta 1 subunit Source RGD Symbol Acc 2649
B10	UPFR1091696	ENSRNOT00000077594.1	Gabrb3	ENSRNOG00000060599	gamma-aminobutyric acid type A receptor beta 3 subunit Source RGD Symbol Acc 2651
B11	UPFR1095139	ENSRNOT00000022446.4	Gabrd	ENSRNOG00000016385	gamma-aminobutyric acid type A receptor delta subunit Source RGD Symbol Acc 61901
B12	UPFR1051909	ENSRNOT00000087138.1	Gabre	ENSRNOG00000061182	gamma-aminobutyric acid type A receptor epsilon subunit Source RGD Symbol Acc 68320
C01	UPFR1088113	ENSRNOT00000003240.6	Gabrg1	ENSRNOG00000002360	gamma-aminobutyric acid type A receptor gamma 1 subunit Source RGD Symbol Acc 621732
C02	UPFR1104925	ENSRNOT00000082445.1	Gabrg2	ENSRNOG00000003241	gamma-aminobutyric acid type A receptor gamma 2 subunit Source RGD Symbol Acc 61966
C03	UPFR1031764	ENSRNOT00000093339.1	Gabrg3	ENSRNOG00000014862	gamma-aminobutyric acid type A receptor gamma 3 subunit Source RGD Symbol Acc 621735
C04	UPFR1026776	ENSRNOT00000078419.1	Gabrq	ENSRNOG00000053402	gamma-aminobutyric acid type A receptor theta subunit Source RGD Symbol Acc 68331
C05	UPFR1114910	ENSRNOT00000010172.6	Gabrr1	ENSRNOG00000007603	gamma-aminobutyric acid type A receptor rho 1 subunit Source RGD Symbol Acc 61900
C06	UPFR1019350	ENSRNOT00000009973.3	Gabrr2	ENSRNOG00000007490	gamma-aminobutyric acid type A receptor rho 2 subunit Source RGD Symbol Acc 61902
C07	UPFR1039287	ENSRNOT00000087712.1	Gad1	ENSRNOG00000000007	glutamate decarboxylase 1 Source RGD Symbol Acc 2652
C08	UPFR1074860	ENSRNOT00000078073.1	Gls	ENSRNOG00000056246	glutaminase Source RGD Symbol Acc 2707
C09	UPFR1034243	ENSRNOT00000075480.2	Glul	ENSRNOG00000049560	glutamate-ammonia ligase Source RGD Symbol Acc 2710
C10	UPFR1071302	ENSRNOT00000091004.1	Gnai1	ENSRNOG00000057096	G protein subunit alpha i1 Source RGD Symbol Acc 2713
		ENSRNOT00000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFR1038249	019174.5	Gnaq	000014183	G protein subunit alpha q Source RGD Symbol Acc 620770
C12	UPFR1017520	ENSRNOT00000 030470.6	Gphn	ENSRNOG00 000028366	gephyrin Source RGD Symbol Acc 69194
D01	UPFR1117301	ENSRNOT00000 081136.1	Gria1	ENSRNOG00 000045816	glutamate ionotropic receptor AMPA type subunit 1 Source RGD Symbol Acc 621531
D02	UPFR1039996	ENSRNOT00000 083361.1	Gria2	ENSRNOG00 000054204	glutamate ionotropic receptor AMPA type subunit 2 Source RGD Symbol Acc 61862
D03	UPFR1047643	ENSRNOT00000 010367.6	Gria3	ENSRNOG00 000007682	glutamate ionotropic receptor AMPA type subunit 3 Source RGD Symbol Acc 70958
D04	UPFR1073036	ENSRNOT00000 081171.1	Gria4	ENSRNOG00 000006957	glutamate ionotropic receptor AMPA type subunit 4 Source RGD Symbol Acc 61863
D05	UPFR1047754	ENSRNOT00000 085629.1	Grik1	ENSRNOG00 000001575	glutamate ionotropic receptor kainate type subunit 1 Source RGD Symbol Acc 2732
D06	UPFR1048801	ENSRNOT00000 037559.5	Grik2	ENSRNOG00 000000368	glutamate ionotropic receptor kainate type subunit 2 Source RGD Symbol Acc 2733
D07	UPFR1017685	ENSRNOT00000 048347.3	Grik4	ENSRNOG00 000030910	glutamate ionotropic receptor kainate type subunit 4 Source RGD Symbol Acc 2734
D08	UPFR1016716	ENSRNOT00000 027578.6	Grik5	ENSRNOG00 000020310	glutamate ionotropic receptor kainate type subunit 5 Source RGD Symbol Acc 2735
D09	UPFR1041053	ENSRNOT00000 049297.3	Grin1	ENSRNOG00 000011726	glutamate ionotropic receptor NMDA type subunit 1 Source RGD Symbol Acc 2736
D10	UPFR1093256	ENSRNOT00000 044626.3	Grin2a	ENSRNOG00 000033942	glutamate ionotropic receptor NMDA type subunit 2A Source RGD Symbol Acc 2737
D11	UPFR1071315	ENSRNOT00000 011697.4	Grin2b	ENSRNOG00 000008766	glutamate ionotropic receptor NMDA type subunit 2B Source RGD Symbol Acc 2738
D12	UPFR1078301	ENSRNOT00000 004477.5	Grin2c	ENSRNOG00 000003280	glutamate ionotropic receptor NMDA type subunit 2C Source RGD Symbol Acc 2739
E01	UPFR1030956	ENSRNOT00000 044325.3	Grm1	ENSRNOG00 000014290	glutamate metabotropic receptor 1 Source RGD Symbol Acc 2742
E02	UPFR1059414	ENSRNOT00000 017607.3	Grm2	ENSRNOG00 000013171	glutamate metabotropic receptor 2 Source RGD Symbol Acc 2743
E03	UPFR1061070	ENSRNOT00000 007572.7	Grm3	ENSRNOG00 000005519	glutamate metabotropic receptor 3 Source RGD Symbol Acc 2744
E04	UPFR1013959	ENSRNOT00000 093633.1	Grm4	ENSRNOG00 000000487	glutamate metabotropic receptor 4 Source RGD Symbol Acc 2745
E05	UPFR1073288	ENSRNOT00000 050639.2	Grm5	ENSRNOG00 000016429	glutamate metabotropic receptor 5 Source RGD Symbol Acc 2746
E06	UPFR1019110	ENSRNOT00000 000249.6	Grm6	ENSRNOG00 000000233	glutamate metabotropic receptor 6 Source RGD Symbol Acc 2747
E07	UPFR1112528	ENSRNOT00000 056570.3	Grm7	ENSRNOG00 000005662	glutamate metabotropic receptor 7 Source RGD Symbol Acc 619857
E08	UPFR1086185	ENSRNOT00000 031714.4	Grm8	ENSRNOG00 000021468	glutamate metabotropic receptor 8 Source RGD Symbol Acc 619858
E09	UPFR1023875	ENSRNOT00000 071804.3	Homer1	ENSRNOG00 000047014	homer scaffold protein 1 Source RGD Symbol Acc 628725
E10	UPFR1109943	ENSRNOT00000 087785.1	Homer2	ENSRNOG00 000061450	homer scaffold protein 2 Source RGD Symbol Acc 620705
E11	UPFR1121351	ENSRNOT00000 006308.4	Il1b	ENSRNOG00 000004649	interleukin 1 beta Source RGD Symbol Acc 2891
E12	UPFR1103770	ENSRNOT00000 064025.3	Itpr1	ENSRNOG00 000007104	inositol 1,4,5-trisphosphate receptor, type 1 Source RGD Symbol Acc 2933
F01	UPFR1055882	ENSRNOT00000 002533.7	Mapk1	ENSRNOG00 000001849	mitogen activated protein kinase 1 Source RGD Symbol Acc 70500
F02	UPFR1036287	ENSRNOT00000 006361.6	Nsf	ENSRNOG00 000003905	N-ethylmaleimide sensitive factor, vesicle fusing ATPase Source RGD Symbol Acc 621594
F03	UPFR1059236	ENSRNOT00000 079201.1	P2rx7	ENSRNOG00 000001296	purinergic receptor P2X 7 Source RGD Symbol Acc 3241
F04	UPFR1053603	ENSRNOT00000 056173.2	Phgdh	ENSRNOG00 000019328	phosphoglycerate dehydrogenase Source RGD Symbol Acc 61987
F05	UPFR1077139	ENSRNOT00000 090565.1	Pla2g6	ENSRNOG00 000012295	phospholipase A2 group VI Source RGD Symbol Acc 628867
F06	UPFR1112999	ENSRNOT00000 006389.6	Plcb1	ENSRNOG00 000004810	phospholipase C beta 1 Source RGD Symbol Acc 3344
F07	UPFR1068367	ENSRNOT00000 002576.7	Prodh1	ENSRNOG00 000000281	proline dehydrogenase 1 Source RGD Symbol Acc 1590932
F08	UPFR1075593	ENSRNOT00000 092357.1	Shank2	ENSRNOG00 000050206	SH3 and multiple ankyrin repeat domains 2 Source RGD Symbol Acc 628772
F09	UPFR1073912	ENSRNOT00000 022383.6	Slc17a6	ENSRNOG00 000016147	solute carrier family 17 member 6 Source RGD Symbol Acc 620531
F10	UPFR1049548	ENSRNOT00000 064184.4	Slc17a7	ENSRNOG00 000020650	solute carrier family 17 member 7 Source RGD Symbol Acc 620101

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFR1056976	ENSRNOT00000 010207.2	Slc17a8	ENSRNOG00 000007581	solute carrier family 17 member 8 Source RGD Symbol Acc 628870
F12	UPFR1071214	ENSRNOT00000 020272.7	Slc1a1	ENSRNOG00 000014816	solute carrier family 1 member 1 Source RGD Symbol Acc 3696
G01	UPFR1019921	ENSRNOT00000 007604.6	Slc1a2	ENSRNOG00 000005479	solute carrier family 1 member 2 Source RGD Symbol Acc 3697
G02	UPFR1100610	ENSRNOT00000 022319.6	Slc1a3	ENSRNOG00 000016163	solute carrier family 1 member 3 Source RGD Symbol Acc 3698
G03	UPFR1075748	ENSRNOT00000 009931.5	Slc1a6	ENSRNOG00 000007509	solute carrier family 1 member 6 Source RGD Symbol Acc 620340
G04	UPFR1087378	ENSRNOT00000 090817.1	Slc1a7	ENSRNOG00 000011644	solute carrier family 1 member 7 Source RGD Symbol Acc 1311928
G05	UPFR1038602	ENSRNOT00000 020720.6	Slc32a1	ENSRNOG00 000015393	solute carrier family 32 member 1 Source RGD Symbol Acc 621402
G06	UPFR1028124	ENSRNOT00000 008138.4	Slc38a1	ENSRNOG00 000005291	solute carrier family 38, member 1 Source RGD Symbol Acc 69645
G07	UPFR1018263	ENSRNOT00000 009705.6	Slc6a1	ENSRNOG00 000006527	solute carrier family 6 member 1 Source RGD Symbol Acc 620533
G08	UPFR1106386	ENSRNOT00000 008342.5	Slc6a11	ENSRNOG00 000005697	solute carrier family 6 member 11 Source RGD Symbol Acc 628737
G09	UPFR1069434	ENSRNOT00000 089482.1	Slc6a12	ENSRNOG00 000013547	solute carrier family 6 member 12 Source RGD Symbol Acc 620255
G10	UPFR1088769	ENSRNOT00000 079744.1	Slc6a13	ENSRNOG00 000012876	solute carrier family 6 member 13 Source RGD Symbol Acc 620788
G11	UPFR1068205	ENSRNOT00000 039247.4	Snca	ENSRNOG00 000008656	synuclein alpha Source RGD Symbol Acc 3729
G12	UPFR1079611	ENSRNOT00000 085394.1	Srr	ENSRNOG00 000002991	serine racemase Source RGD Symbol Acc 735094
H01	UPFR1132952	ENSRNOT00000 080216.1	Actb	ENSRNOG00 000034254	actin, beta Source RGD Symbol Acc 628837
H02	UPFR1132953	ENSRNOT00000 023017.5	B2m	ENSRNOG00 000017123	beta-2 microglobulin Source RGD Symbol Acc 2189
H03	UPFR1132959	ENSRNOT00000 065935.3	Hprt1	ENSRNOG00 000048561	hypoxanthine phosphoribosyltransferase 1 Source RGD Symbol Acc 2826
H04	UPFR1018740	ENSRNOT00000 017468.2	Ldha	ENSRNOG00 000013009	lactate dehydrogenase A Source RGD Symbol Acc 2996
H05	UPFR1132958	ENSRNOT00000 018820.5	Rplp1	ENSRNOG00 000013874	ribosomal protein lateral stalk subunit P1 Source RGD Symbol Acc 621774
H06	UPFR1126610	UPL_RGDC	RGDC	UPL_RGDC	Rat 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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