

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

Rat Alzheimer's Disease

Cat. no. 249955 UPRN-057ZR

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	LOC1009115 45	Abca1	Ache	Adam9	Apba1	Apba3	Apbb1	Apbb2	Apha1a	Apjp2	Apoa1	Apoe
B	App	Bace1	Bace2	Bche	Bdnf	Capn1	Casp3	Casp4	Cdk1	Cdk5	Cdkl1	Chat
C	Ciu	Ctsb	Ctsc	Ctsd	Ctsg	Ctsl	AABR0705853 9.1	Gap43	Gnao1	Gnaz	Gnb1	Gnb2
D	Gnb4	Gnb5	Gng10	Gng11	Gng5	Gng7	Gng8	Gsk3a	Gsk3b	Hsd17b10	Ide	Igf2
E	Il1a	Il1b	Ins2	Insr	Lpl	Lrp1	Lrp6	Map2	Mapt	Mpo	Mt3	Nae1
F	Ncstn	Ndufb8	Pkp4	Plat	Plau	Plg	Ppp3cc	Prkca	Prkcb	Prkcd	Prkce	Prkcg
G	Prkci	Prkca	Prkcz	Psen1	Psen2	Serpina3c	LOC299282	Snca	Snca	Ubqln1	Uqcrc1	Uqcrc2
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	UPFR1057650	ENSRNOT00000019346.6	LOC100911545	ENSRNOG0000028896	alpha-2-macroglobulin-like Source RGD Symbol Acc 6492449
A02	UPFR1019469	ENSRNOT00000024564.7	Abca1	ENSRNOG0000018126	ATP binding cassette subfamily A member 1 Source RGD Symbol Acc 631344
A03	UPFR1120683	ENSRNOT00000075504.2	Ache	ENSRNOG0000050841	acetylcholinesterase Source RGD Symbol Acc 69313
A04	UPFR1034724	ENSRNOT00000041330.4	Adam9	ENSRNOG0000017231	ADAM metallopeptidase domain 9 Source RGD Symbol Acc 621473
A05	UPFR1026636	ENSRNOT00000020123.4	Apba1	ENSRNOG0000014928	amyloid beta precursor protein binding family A member 1 Source RGD Symbol Acc 620844
A06	UPFR1059837	ENSRNOT00000027784.4	Apba3	ENSRNOG0000020466	amyloid beta precursor protein binding family A member 3 Source RGD Symbol Acc 620846
A07	UPFR1057704	ENSRNOT00000024402.4	Apbb1	ENSRNOG0000018020	amyloid beta precursor protein binding family B member 1 Source RGD Symbol Acc 2122
A08	UPFR1046515	ENSRNOT00000050664.5	Apbb2	ENSRNOG0000025509	amyloid beta precursor protein binding family B member 2 Source RGD Symbol Acc 1562438
A09	UPFR1037080	ENSRNOT00000056289.3	Aph1a	ENSRNOG0000023816	aph-1 homolog A, gamma secretase subunit Source RGD Symbol Acc 1311546
A10	UPFR1054312	ENSRNOT00000070818.3	Aplp2	ENSRNOG0000047179	amyloid beta precursor like protein 2 Source RGD Symbol Acc 2128
A11	UPFR1066328	ENSRNOT00000074357.2	Apoa1	ENSRNOG0000045679	apolipoprotein A1 Source RGD Symbol Acc 2130
A12	UPFR1073431	ENSRNOT00000091574.1	ApoE	ENSRNOG0000018454	apolipoprotein E Source RGD Symbol Acc 2138
B01	UPFR1021296	ENSRNOT00000044081.5	App	ENSRNOG000006997	amyloid beta precursor protein Source RGD Symbol Acc 2139
B02	UPFR1063985	ENSRNOT00000022796.6	Bace1	ENSRNOG0000016847	beta-secretase 1 Source RGD Symbol Acc 2191
B03	UPFR1038419	ENSRNOT00000002679.7	Bace2	ENSRNOG0000001953	beta-secretase 2 Source RGD Symbol Acc 1303241
B04	UPFR1043589	ENSRNOT00000013279.3	Bche	ENSRNOG0000009826	butyrylcholinesterase Source RGD Symbol Acc 619996
B05	UPFR1014257	ENSRNOT00000078543.1	Bdnf	ENSRNOG0000047466	brain-derived neurotrophic factor Source RGD Symbol Acc 2202
B06	UPFR1072338	ENSRNOT00000028431.6	Capn1	ENSRNOG0000020935	calpain 1 Source RGD Symbol Acc 2267
B07	UPFR1091664	ENSRNOT00000014095.5	Casp3	ENSRNOG0000010475	caspase 3 Source RGD Symbol Acc 2275
B08	UPFR1023361	ENSRNOT00000061973.4	Casp4	ENSRNOG0000033697	caspase 4 Source RGD Symbol Acc 621757
B09	UPFR1047122	ENSRNOT00000081113.1	Cdk1	ENSRNOG0000000632	cyclin-dependent kinase 1 Source RGD Symbol Acc 2319
B10	UPFR1040918	ENSRNOT000000111052.4	Cdk5	ENSRNOG0000008017	cyclin-dependent kinase 5 Source RGD Symbol Acc 70514
B11	UPFR1090891	ENSRNOT00000006374.5	Cdk1l	ENSRNOG0000038720	cyclin dependent kinase like 1 Source RGD Symbol Acc 1305080
B12	UPFR1120203	ENSRNOT00000080202.2	Chat	ENSRNOG0000025012	choline O-acetyltransferase Source RGD Symbol Acc 1304627
C01	UPFR1050205	ENSRNOT00000091612.1	Clu	ENSRNOG0000016460	clusterin Source RGD Symbol Acc 3907
C02	UPFR1121227	ENSRNOT00000014177.5	Ctsb	ENSRNOG0000010331	cathepsin B Source RGD Symbol Acc 621509
C03	UPFR1078881	ENSRNOT00000022342.5	Ctsc	ENSRNOG0000016496	cathepsin C Source RGD Symbol Acc 2445
C04	UPFR1024358	ENSRNOT00000027407.4	Ctsd	ENSRNOG0000020206	cathepsin D Source RGD Symbol Acc 621511
C05	UPFR1054610	ENSRNOT00000059677.2	Ctsg	ENSRNOG0000020647	cathepsin G Source RGD Symbol Acc 1307681
C06	UPFR1115111	ENSRNOT00000025462.6	Ctsl	ENSRNOG0000018566	cathepsin L Source RGD Symbol Acc 2448
C07	UPFR1102114	ENSRNOT00000000206.7	AABR07058539.1	ENSRNOG0000000190	
C08	UPFR1072474	ENSRNOT00000002091.4	Gap43	ENSRNOG0000001528	growth associated protein 43 Source RGD Symbol Acc 62071
C09	UPFR1086638	ENSRNOT00000026373.5	Gnao1	ENSRNOG0000019482	G protein subunit alpha o1 Source RGD Symbol Acc 628732
C10	UPFR1046171	ENSRNOT000000011779.4	Gnaz	ENSRNOG0000001313	G protein subunit alpha z Source RGD Symbol Acc 2717
		ENSRNOT000000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFR1081396	041789.2	Gnb1	000016638	G protein subunit beta 1 Source RGD Symbol Acc 2718
C12	UPFR1117390	ENSRNOT0000001911.4	Gnb2	ENSRNOG0000001409	G protein subunit beta 2 Source RGD Symbol Acc 69319
D01	UPFR1050585	ENSRNOT00000087803.1	Gnb4	ENSRNOG00000011070	G protein subunit beta 4 Source RGD Symbol Acc 1359321
D02	UPFR1033495	ENSRNOT00000075708.2	Gnb5	ENSRNOG00000047799	G protein subunit beta 5 Source RGD Symbol Acc 620759
D03	UPFR1092235	ENSRNOT00000020707.7	Gng10	ENSRNOG00000025040	G protein subunit gamma 10 Source RGD Symbol Acc 621514
D04	UPFR1034936	ENSRNOT00000075326.2	Gng11	ENSRNOG00000047914	G protein subunit gamma 11 Source RGD Symbol Acc 621515
D05	UPFR1074319	ENSRNOT00000021358.2	Gng5	ENSRNOG0000015936	guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-5 Source RGD Symbol Acc 11485321
D06	UPFR1119852	ENSRNOT00000026893.4	Gng7	ENSRNOG0000019857	G protein subunit gamma 7 Source RGD Symbol Acc 61860
D07	UPFR1118516	ENSRNOT00000090417.1	Gng8	ENSRNOG0000016701	G protein subunit gamma 8 Source RGD Symbol Acc 620808
D08	UPFR1081475	ENSRNOT00000027677.5	Gsk3a	ENSRNOG00000020417	glycogen synthase kinase 3 alpha Source RGD Symbol Acc 620351
D09	UPFR1109626	ENSRNOT00000077612.1	Gsk3b	ENSRNOG00000002833	glycogen synthase kinase 3 beta Source RGD Symbol Acc 70982
D10	UPFR1042751	ENSRNOT00000043559.4	Hsd17b10	ENSRNOG0000003049	hydroxysteroid (17-beta) dehydrogenase 10 Source RGD Symbol Acc 69231
D11	UPFR1063798	ENSRNOT00000023342.3	Ide	ENSRNOG0000016833	insulin degrading enzyme Source RGD Symbol Acc 2861
D12	UPFR1085899	ENSRNOT00000089171.1	Igf2	ENSRNOG0000020369	insulin-like growth factor 2 Source RGD Symbol Acc 2870
E01	UPFR1066959	ENSRNOT00000080818.1	Il1a	ENSRNOG0000004575	interleukin 1 alpha Source RGD Symbol Acc 2890
E02	UPFR1121351	ENSRNOT00000006308.4	Il1b	ENSRNOG0000004649	interleukin 1 beta Source RGD Symbol Acc 2891
E03	UPFR1114751	ENSRNOT00000027656.3	Ins2	ENSRNOG00000020405	insulin 2 Source RGD Symbol Acc 2916
E04	UPFR1014864	ENSRNOT00000041155.3	Insr	ENSRNOG00000029986	insulin receptor Source RGD Symbol Acc 2917
E05	UPFR1016556	ENSRNOT00000016543.3	Lpl	ENSRNOG0000012181	lipoprotein lipase Source RGD Symbol Acc 3017
E06	UPFR1046102	ENSRNOT00000031005.5	Lrp1	ENSRNOG00000025053	LDL receptor related protein 1 Source RGD Symbol Acc 1307535
E07	UPFR1077588	ENSRNOT00000082102.1	Lrp6	ENSRNOG0000006338	LDL receptor related protein 6 Source RGD Symbol Acc 1304749
E08	UPFR1036990	ENSRNOT00000037974.6	Map2	ENSRNOG0000011841	microtubule-associated protein 2 Source RGD Symbol Acc 3044
E09	UPFR1041157	ENSRNOT00000045127.6	Mapt	ENSRNOG00000005133	microtubule-associated protein tau Source RGD Symbol Acc 69329
E10	UPFR1055988	ENSRNOT00000065910.3	Mpo	ENSRNOG0000008310	myeloperoxidase Source RGD Symbol Acc 1592081
E11	UPFR1100252	ENSRNOT00000025669.5	Mt3	ENSRNOG0000018958	metallothionein 3 Source RGD Symbol Acc 621252
E12	UPFR1077326	ENSRNOT00000076948.1	Nae1	ENSRNOG00000033133	NEDD8 activating enzyme E1 subunit 1 Source RGD Symbol Acc 619945
F01	UPFR1040843	ENSRNOT00000008150.5	Ncstn	ENSRNOG00000005355	nicastrin Source RGD Symbol Acc 631418
F02	UPFR1037403	ENSRNOT00000019039.7	Ndufb8	ENSRNOG0000014078	NADH ubiquinone oxidoreductase subunit B8 Source RGD Symbol Acc 1309129
F03	UPFR1096432	ENSRNOT00000059246.5	Pkp4	ENSRNOG0000005504	plakophilin 4 Source RGD Symbol Acc 1307840
F04	UPFR1085291	ENSRNOT00000025763.6	Plat	ENSRNOG0000019018	plasminogen activator, tissue type Source RGD Symbol Acc 3342
F05	UPFR1088915	ENSRNOT00000014273.5	Plau	ENSRNOG0000010516	plasminogen activator, urokinase Source RGD Symbol Acc 3343
F06	UPFR1070729	ENSRNOT00000023368.5	Plg	ENSRNOG0000017223	plasminogen Source RGD Symbol Acc 619893
F07	UPFR1112347	ENSRNOT00000082505.1	Ppp3cc	ENSRNOG0000009745	protein phosphatase 3 catalytic subunit gamma Source RGD Symbol Acc 621616
F08	UPFR1034906	ENSRNOT00000004699.8	Prkca	ENSRNOG00000003491	protein kinase C, alpha Source RGD Symbol Acc 3395
F09	UPFR1083743	ENSRNOT00000016418.6	Prkcb	ENSRNOG0000012061	protein kinase C, beta Source RGD Symbol Acc 3396
F10	UPFR1045135	ENSRNOT00000025858.7	Prkcd	ENSRNOG0000016346	protein kinase C, delta Source RGD Symbol Acc 67383

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFR1107353	ENSRNOT00000020959.7	Prkce	ENSRNOG0000015603	protein kinase C, epsilon Source RGD Symbol Acc 61925
F12	UPFR1032334	ENSRNOT00000080032.1	Prkcg	ENSRNOG0000054371	protein kinase C, gamma Source RGD Symbol Acc 3397
G01	UPFR1099138	ENSRNOT00000012924.5	Prkci	ENSRNOG0000009652	protein kinase C, iota Source RGD Symbol Acc 620961
G02	UPFR1069425	ENSRNOT00000025901.6	Prkcg	ENSRNOG0000019057	protein kinase C, theta Source RGD Symbol Acc 620968
G03	UPFR1112897	ENSRNOT00000021285.6	Prkcz	ENSRNOG0000015480	protein kinase C, zeta Source RGD Symbol Acc 3399
G04	UPFR1095499	ENSRNOT00000012495.7	Psen1	ENSRNOG0000009110	presenilin 1 Source RGD Symbol Acc 3425
G05	UPFR1089192	ENSRNOT00000040203.4	Psen2	ENSRNOG0000002879	presenilin 2 Source RGD Symbol Acc 621060
G06	UPFR1085321	ENSRNOT00000013896.4	Serpina3c	ENSRNOG0000010410	serine (or cysteine) proteinase inhibitor, clade A, member 3C Source RGD Symbol Acc 2972
G07	UPFR1038357	ENSRNOT00000082680.1	LOC299282	ENSRNOG0000010478	Serine protease inhibitor Source RGD Symbol Acc 3745
G08	UPFR1068205	ENSRNOT00000039247.4	Snca	ENSRNOG0000008656	synuclein alpha Source RGD Symbol Acc 3729
G09	UPFR1069887	ENSRNOT00000024357.6	Sncb	ENSRNOG0000018039	synuclein, beta Source RGD Symbol Acc 70992
G10	UPFR1038765	ENSRNOT00000061233.4	Ubqln1	ENSRNOG0000019282	ubiquilin 1 Source RGD Symbol Acc 620745
G11	UPFR1019743	ENSRNOT00000042114.4	Uqcrc1	ENSRNOG0000032134	ubiquinol-cytochrome c reductase core protein 1 Source RGD Symbol Acc 1303314
G12	UPFR1065958	ENSRNOT00000021514.5	Uqcrc2	ENSRNOG0000036742	ubiquinol cytochrome c reductase core protein 2 Source RGD Symbol Acc 1359150
H01	UPFR1132952	ENSRNOT00000080216.1	Actb	ENSRNOG0000034254	actin, beta Source RGD Symbol Acc 628837
H02	UPFR1132953	ENSRNOT00000023017.5	B2m	ENSRNOG0000017123	beta-2 microglobulin Source RGD Symbol Acc 2189
H03	UPFR1132959	ENSRNOT00000065935.3	Hprt1	ENSRNOG0000048561	hypoxanthine phosphoribosyltransferase 1 Source RGD Symbol Acc 2826
H04	UPFR1018740	ENSRNOT00000017468.2	Ldha	ENSRNOG0000013009	lactate dehydrogenase A Source RGD Symbol Acc 2996
H05	UPFR1132958	ENSRNOT00000018820.5	Rplp1	ENSRNOG0000013874	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 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 Probe RT-PCR Kit (100)*	For 100 x 20 μ l reactions: 1 ml QuantiNova Probe RT-PCR Master Mix, 20 μ l QuantiNova Probe 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	208352
QuantiNova Probe PCR Kit (100)*	For 100 x 20 μ l reactions: 1 ml 2x QuantiNova Probe PCR Master Mix, 500 μ l QuantiNova Yellow Template Dilution Buffer, 250 μ l 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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