

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

Rat Hypertension

Cat. no. 249955 UPRN-037ZR

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	Ace	Ace2	Acta2	Adm	Adra1b	Adra1d	Adrb1	Agf	Agtr1a	Agtr1b	Agtr2	Alox5
B	Arg2	Atp2c1	Atp6ap2	Avp	Avpr1a	LOC1009096 48	Bdkrb1	Bdkrb2	Bmpr2	Cacna1c	Calca	Cav1
C	Chma1	Chmb1	Clic1	Clic4	Clic5	Cnga1	LOC1083480 53	Cnga3	Cnga4	Cngb1	Cps1	Drd3
D	Drd5	Ece1	Edn1	Edn2	Ednra	Ednrb	Ephx2	Gch1	Gchfr	Gucy1a1	Gucy1b1	Hif1a
E	Itpr1	Itpr2	Itpr3	Kcnj8	Kcnma1	Myk	Myk2	Myk3	Nos3	Nosip	Nostrin	Nppb
F	Nppc	Npr1	Npy1r	P2rx4	Pde3a	Pde3b	Pde5a	Plcg1	Plcg2	AABR0700672 7.1	Prkg2	Ptgir
G	Ptgs1	Ptgs2	Ren	S1pr1	Scnn1a	Scnn1b	Scnn1g	Slc7a1	Sphk1	Sphk2	Uts2	Uts2r
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	UPFR1115385	ENSRNOT00000010627.8	Ace	ENSRNOG0000062101	angiotensin I converting enzyme Source RGD Symbol Acc 2493
A02	UPFR1084774	ENSRNOT00000080730.1	Ace2	ENSRNOG0000031665	angiotensin I converting enzyme 2 Source RGD Symbol Acc 728890
A03	UPFR1115786	ENSRNOT00000083468.1	Acta2	ENSRNOG0000058039	actin, alpha 2, smooth muscle, aorta Source RGD Symbol Acc 621676
A04	UPFR1061154	ENSRNOT00000036718.1	Adm	ENSRNOG0000027030	adrenomedullin Source RGD Symbol Acc 2047
A05	UPFR1109473	ENSRNOT00000087937.1	Adra1b	ENSRNOG0000060087	adrenoceptor alpha 1B Source RGD Symbol Acc 2054
A06	UPFR1071837	ENSRNOT00000028877.2	Adra1d	ENSRNOG0000021256	adrenoceptor alpha 1D Source RGD Symbol Acc 62064
A07	UPFR1119895	ENSRNOT00000022813.2	Adrb1	ENSRNOG0000017002	adrenoceptor beta 1 Source RGD Symbol Acc 2059
A08	UPFR1049261	ENSRNOT00000024917.4	Agf	ENSRNOG0000018445	angiotensinogen Source RGD Symbol Acc 2069
A09	UPFR1021418	ENSRNOT00000038532.3	Agtr1a	ENSRNOG0000018346	angiotensin II receptor, type 1a Source RGD Symbol Acc 2070
A10	UPFR1077618	ENSRNOT00000014178.4	Agtr1b	ENSRNOG0000010640	angiotensin II receptor, type 1b Source RGD Symbol Acc 2071
A11	UPFR1096693	ENSRNOT00000074269.1	Agtr2	ENSRNOG0000050006	angiotensin II receptor, type 2 Source RGD Symbol Acc 2072
A12	UPFR1115697	ENSRNOT00000017633.5	Alox5	ENSRNOG0000012972	arachidonate 5-lipoxygenase Source RGD Symbol Acc 2096
B01	UPFR1100540	ENSRNOT00000083433.1	Arg2	ENSRNOG0000053811	arginase 2 Source RGD Symbol Acc 2151
B02	UPFR1014669	ENSRNOT00000018175.8	Atp2c1	ENSRNOG0000013305	ATPase secretory pathway Ca2+ transporting 1 Source RGD Symbol Acc 621311
B03	UPFR1115814	ENSRNOT00000005138.6	Atp6ap2	ENSRNOG0000003858	ATPase H+ transporting accessory protein 2 Source RGD Symbol Acc 1561269
B04	UPFR1013745	ENSRNOT00000028833.5	Avp	ENSRNOG0000021229	arginine vasopressin Source RGD Symbol Acc 2184
B05	UPFR1112531	ENSRNOT00000005829.5	Avpr1a	ENSRNOG0000004400	arginine vasopressin receptor 1A Source RGD Symbol Acc 2185
B06	UPFR1032011	ENSRNOT00000074512.2	LOC100909648	ENSRNOG0000048522	arginine vasopressin receptor 1B Source RGD Symbol Acc 61886
B07	UPFR1119007	ENSRNOT00000005953.3	Bdkrb1	ENSRNOG0000004488	bradykinin receptor B1 Source RGD Symbol Acc 620401
B08	UPFR1025479	ENSRNOT00000071735.2	Bdkrb2	ENSRNOG0000047300	bradykinin receptor B2 Source RGD Symbol Acc 2201
B09	UPFR1094942	ENSRNOT00000035238.4	Bmpr2	ENSRNOG0000022196	bone morphogenetic protein receptor type 2 Source RGD Symbol Acc 71082
B10	UPFR1053079	ENSRNOT00000052017.6	Cacna1c	ENSRNOG0000007090	calcium voltage-gated channel subunit alpha1 C Source RGD Symbol Acc 2245
B11	UPFR1035100	ENSRNOT00000055124.4	Calca	ENSRNOG0000011130	calcitonin-related polypeptide alpha Source RGD Symbol Acc 2254
B12	UPFR1012931	ENSRNOT00000078250.1	Cav1	ENSRNOG0000056836	caveolin 1 Source RGD Symbol Acc 2280
C01	UPFR1071991	ENSRNOT00000024706.4	Chrna1	ENSRNOG0000018286	cholinergic receptor nicotinic alpha 1 subunit Source RGD Symbol Acc 69277
C02	UPFR1031666	ENSRNOT00000019947.3	Chrnb1	ENSRNOG0000014698	cholinergic receptor nicotinic beta 1 subunit Source RGD Symbol Acc 2349
C03	UPFR1030703	ENSRNOT00000068435.3	Clic1	ENSRNOG0000029682	chloride intracellular channel 1 Source RGD Symbol Acc 1303043
C04	UPFR1122214	ENSRNOT00000024464.4	Clic4	ENSRNOG0000018109	chloride intracellular channel 4 Source RGD Symbol Acc 61857
C05	UPFR1020247	ENSRNOT00000079517.1	Clic5	ENSRNOG0000047218	chloride intracellular channel 5 Source RGD Symbol Acc 620659
C06	UPFR1078097	ENSRNOT00000006469.4	Cnga1	ENSRNOG0000004778	cyclic nucleotide gated channel alpha 1 Source RGD Symbol Acc 621815
C07	UPFR1077372	ENSRNOT00000082752.1	LOC108348053	ENSRNOG0000030119	cyclic nucleotide-gated olfactory channel Source RGD Symbol Acc 1138184
C08	UPFR1122067	ENSRNOT00000085720.1	Cnga3	ENSRNOG0000051950	cyclic nucleotide gated channel alpha 3 Source RGD Symbol Acc 70948
C09	UPFR1076235	ENSRNOT00000023751.7	Cnga4	ENSRNOG0000017609	cyclic nucleotide gated channel alpha 4 Source RGD Symbol Acc 619844
C10	UPFR1055997	ENSRNOT00000060351.3	Cngb1	ENSRNOG0000031773	cyclic nucleotide gated channel beta 1 Source RGD Symbol Acc 621809
		ENSRNOT000000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFR1082797	019023.5	Cps1	000013704	carbamoyl-phosphate synthase 1 Source RGD Symbol Acc 2395
C12	UPFR1069054	ENSRNOT00000089057.1	Drd3	ENSRNOG0000060806	dopamine receptor D3 Source RGD Symbol Acc 2521
D01	UPFR1113428	ENSRNOT00000007074.2	Drd5	ENSRNOG0000005338	dopamine receptor D5 Source RGD Symbol Acc 2523
D02	UPFR1026394	ENSRNOT00000067616.2	Ece1	ENSRNOG0000014241	endothelin converting enzyme 1 Source RGD Symbol Acc 620293
D03	UPFR1035851	ENSRNOT00000019361.2	Edn1	ENSRNOG0000014361	endothelin 1 Source RGD Symbol Acc 2532
D04	UPFR1121420	ENSRNOT00000012569.3	Edn2	ENSRNOG0000009390	endothelin 2 Source RGD Symbol Acc 2533
D05	UPFR1093550	ENSRNOT00000078701.1	Ednra	ENSRNOG0000012721	endothelin receptor type A Source RGD Symbol Acc 2535
D06	UPFR1102346	ENSRNOT00000014747.5	Ednrb	ENSRNOG0000010997	endothelin receptor type B Source RGD Symbol Acc 2536
D07	UPFR1054800	ENSRNOT00000023385.7	Ephx2	ENSRNOG0000017286	epoxide hydrolase 2 Source RGD Symbol Acc 620732
D08	UPFR1090945	ENSRNOT00000014821.7	Gch1	ENSRNOG0000011039	GTP cyclohydrolase 1 Source RGD Symbol Acc 61992
D09	UPFR1031304	ENSRNOT00000016458.4	Gchfr	ENSRNOG0000012290	GTP cyclohydrolase I feedback regulator Source RGD Symbol Acc 621746
D10	UPFR1071753	ENSRNOT00000017190.4	Gucy1a1	ENSRNOG0000012302	guanylate cyclase 1 soluble subunit alpha 1 Source RGD Symbol Acc 68436
D11	UPFR1046774	ENSRNOT00000064930.2	Gucy1b1	ENSRNOG0000012060	guanylate cyclase 1 soluble subunit beta 1 Source RGD Symbol Acc 2769
D12	UPFR1061095	ENSRNOT00000049725.3	Hif1a	ENSRNOG0000008292	hypoxia inducible factor 1 subunit alpha Source RGD Symbol Acc 61928
E01	UPFR1103770	ENSRNOT00000064025.3	Itpr1	ENSRNOG0000007104	inositol 1,4,5-trisphosphate receptor, type 1 Source RGD Symbol Acc 2933
E02	UPFR1091408	ENSRNOT00000040645.5	Itpr2	ENSRNOG0000001804	inositol 1,4,5-trisphosphate receptor, type 2 Source RGD Symbol Acc 69649
E03	UPFR1085032	ENSRNOT00000090925.2	Itpr3	ENSRNOG0000052795	inositol 1,4,5-trisphosphate receptor, type 3 Source RGD Symbol Acc 2934
E04	UPFR1056851	ENSRNOT00000018057.5	Kcnj8	ENSRNOG0000013463	potassium voltage-gated channel subfamily J member 8 Source RGD Symbol Acc 2960
E05	UPFR1077691	ENSRNOT00000091318.1	Kcnma1	ENSRNOG0000005985	potassium calcium-activated channel subfamily M alpha 1 Source RGD Symbol Acc 620715
E06	UPFR1105703	ENSRNOT00000085618.1	Mylk	ENSRNOG0000002215	myosin light chain kinase Source RGD Symbol Acc 1310915
E07	UPFR1047407	ENSRNOT00000011255.5	Mylk2	ENSRNOG0000008235	myosin light chain kinase 2 Source RGD Symbol Acc 620934
E08	UPFR1061463	ENSRNOT00000023657.6	Mylk3	ENSRNOG0000017546	myosin light chain kinase 3 Source RGD Symbol Acc 1305801
E09	UPFR1032783	ENSRNOT00000013058.4	Nos3	ENSRNOG0000009348	nitric oxide synthase 3 Source RGD Symbol Acc 3186
E10	UPFR1085482	ENSRNOT00000027882.7	Nosip	ENSRNOG0000020543	nitric oxide synthase interacting protein Source RGD Symbol Acc 1309992
E11	UPFR1121089	ENSRNOT00000067161.3	Nostrin	ENSRNOG0000006611	nitric oxide synthase trafficking Source RGD Symbol Acc 727920
E12	UPFR1100038	ENSRNOT00000010779.5	Nppb	ENSRNOG0000008141	natriuretic peptide B Source RGD Symbol Acc 3194
F01	UPFR1027227	ENSRNOT00000025582.2	Nppc	ENSRNOG0000018854	natriuretic peptide C Source RGD Symbol Acc 620850
F02	UPFR1108667	ENSRNOT00000020307.3	Npr1	ENSRNOG0000014684	natriuretic peptide receptor 1 Source RGD Symbol Acc 3195
F03	UPFR1096761	ENSRNOT00000018952.6	Npy1r	ENSRNOG0000014149	neuropeptide Y receptor Y1 Source RGD Symbol Acc 3198
F04	UPFR1033693	ENSRNOT00000001752.5	P2rx4	ENSRNOG0000001300	purinergic receptor P2X 4 Source RGD Symbol Acc 62073
F05	UPFR1055762	ENSRNOT00000032843.1	Pde3a	ENSRNOG0000025042	phosphodiesterase 3A Source RGD Symbol Acc 61942
F06	UPFR1040575	ENSRNOT00000015498.4	Pde3b	ENSRNOG0000011417	phosphodiesterase 3B Source RGD Symbol Acc 61943
F07	UPFR1039275	ENSRNOT00000019638.4	Pde5a	ENSRNOG0000014443	phosphodiesterase 5A Source RGD Symbol Acc 620995
F08	UPFR1035470	ENSRNOT00000078909.1	Plcg1	ENSRNOG0000051490	phospholipase C, gamma 1 Source RGD Symbol Acc 3347
F09	UPFR1066410	ENSRNOT00000090165.1	Plcg2	ENSRNOG0000051986	phospholipase C, gamma 2 Source RGD Symbol Acc 3348
F10	UPFR1096562	ENSRNOT00000082874.1	AABR07006727.1	ENSRNOG0000052057	

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFR1033715	ENSRNOT00000003237.4	Prkg2	ENSRNOG0000002361	protein kinase cGMP-dependent 2 Source RGD Symbol Acc 3401
F12	UPFR1013880	ENSRNOT00000022461.3	Ptgir	ENSRNOG0000016756	prostaglandin I2 receptor Source RGD Symbol Acc 1310890
G01	UPFR1053064	ENSRNOT00000010218.5	Ptgs1	ENSRNOG0000007415	prostaglandin-endoperoxide synthase 1 Source RGD Symbol Acc 3439
G02	UPFR1035449	ENSRNOT00000003567.4	Ptgs2	ENSRNOG0000002525	prostaglandin-endoperoxide synthase 2 Source RGD Symbol Acc 620349
G03	UPFR1020923	ENSRNOT00000003951.4	Ren	ENSRNOG0000002937	renin Source RGD Symbol Acc 3554
G04	UPFR1049908	ENSRNOT00000018318.3	S1pr1	ENSRNOG0000013683	sphingosine-1-phosphate receptor 1 Source RGD Symbol Acc 61958
G05	UPFR1020544	ENSRNOT00000067271.1	Scnn1a	ENSRNOG0000019368	sodium channel epithelial 1 alpha subunit Source RGD Symbol Acc 3639
G06	UPFR1074660	ENSRNOT00000067138.3	Scnn1b	ENSRNOG0000030981	sodium channel epithelial 1 beta subunit Source RGD Symbol Acc 3640
G07	UPFR1048157	ENSRNOT00000024057.4	Scnn1g	ENSRNOG0000017842	sodium channel epithelial 1 gamma subunit Source RGD Symbol Acc 3641
G08	UPFR1035733	ENSRNOT00000001234.5	Slc7a1	ENSRNOG0000000924	solute carrier family 7 member 1 Source RGD Symbol Acc 3716
G09	UPFR1081482	ENSRNOT00000032163.5	Sphk1	ENSRNOG0000010626	sphingosine kinase 1 Source RGD Symbol Acc 620048
G10	UPFR1019068	ENSRNOT00000028549.5	Sphk2	ENSRNOG0000021032	sphingosine kinase 2 Source RGD Symbol Acc 1307757
G11	UPFR1027307	ENSRNOT00000024798.4	Uts2	ENSRNOG0000018393	urotensin 2 Source RGD Symbol Acc 3930
G12	UPFR1012961	ENSRNOT00000054926.1	Uts2r	ENSRNOG0000036669	urotensin 2 receptor Source RGD Symbol Acc 621884
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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