

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

Rat Estrogen Receptor Signaling

Cat. no. 249955 UPRN-005ZR

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	Adora1	Ahr	Akap1	Aplbb1	Bcar1	Bcl2l1	Bdnf	Bmp4	Bmp7	Brcal	C3	Cav1
B	Cd12	Ccnd1	Cited2	Ckb	Ccn2	Ctsd	Cyp19a1	Cyp1a1	Ebag9	Efnas	Egr3	Erb2
C	Erb3	Esr1	Esr2	Fos	Foxa1	Fst	G6pd	Gper1	Hsp90aa1	Igf1	Igf1p4	Igf1p5
D	Irs1	Junb	Klkb1	L1cam	Lgals1	Lpl	Ltbp1	Maff	Med1	Mmp9	Mta1	Myc
E	Nab2	Ncoa2	Ncoa3	Ncor1	Ncor2	Ccn3	Nr0b1	Nr0b2	Nr2f6	AABR0703175 6.1	Nr5a2	Nrip1
F	Nrp1	Pdzk1	Pelp1	Pgr	Phb2	Pich1	Ptgs2	Rala	Rara	S100a6	Safb	Snai1
G	Socs3	Spp1	Tff1	Tgfa	Tgfb3	Thbs1	Vdr	Vegfa	Ccn5	Wnt4	Wnt5a	Xbp1
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	UPFR1120851	ENSRNOT00000078993.1	Adora1	ENSRNOG0000003442	adenosine A1 receptor Source RGD Symbol Acc 2048
A02	UPFR1105470	ENSRNOT00000006618.7	Ahr	ENSRNOG0000004342	aryl hydrocarbon receptor Source RGD Symbol Acc 2074
A03	UPFR1029518	ENSRNOT00000055683.5	Akap1	ENSRNOG0000002373	A-kinase anchoring protein 1 Source RGD Symbol Acc 620826
A04	UPFR1057704	ENSRNOT00000024402.4	Apbb1	ENSRNOG0000018020	amyloid beta precursor protein binding family B member 1 Source RGD Symbol Acc 2122
A05	UPFR1037655	ENSRNOT00000058891.4	Bcar1	ENSRNOG0000019253	BCAR1, Cas family scaffold protein Source RGD Symbol Acc 2406
A06	UPFR1047186	ENSRNOT00000010762.7	Bcl2l1	ENSRNOG0000007946	Bcl2-like 1 Source RGD Symbol Acc 2200
A07	UPFR1014257	ENSRNOT00000078543.1	Bdnf	ENSRNOG0000047466	brain-derived neurotrophic factor Source RGD Symbol Acc 2202
A08	UPFR1013450	ENSRNOT00000083268.1	Bmp4	ENSRNOG0000009694	bone morphogenetic protein 4 Source RGD Symbol Acc 2213
A09	UPFR1105126	ENSRNOT00000084990.1	Bmp7	ENSRNOG0000053384	bone morphogenetic protein 7 Source RGD Symbol Acc 620743
A10	UPFR1018614	ENSRNOT00000083111.1	Brca1	ENSRNOG0000020701	BRCA1, DNA repair associated Source RGD Symbol Acc 2218
A11	UPFR1069924	ENSRNOT00000075494.1	C3	ENSRNOG0000046834	complement C3 Source RGD Symbol Acc 2232
A12	UPFR1012931	ENSRNOT00000078250.1	Cav1	ENSRNOG0000056836	caveolin 1 Source RGD Symbol Acc 2280
B01	UPFR1080637	ENSRNOT00000031626.5	Ccl12	ENSRNOG0000029768	chemokine (C-C motif) ligand 12 Source RGD Symbol Acc 1309255
B02	UPFR1042457	ENSRNOT00000088588.1	Ccnd1	ENSRNOG0000020918	cyclin D1 Source RGD Symbol Acc 68384
B03	UPFR1017367	ENSRNOT00000086790.1	Cited2	ENSRNOG0000056940	Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 2 Source RGD Symbol Acc 620112
B04	UPFR1063251	ENSRNOT00000015122.5	Ckb	ENSRNOG0000010872	creatine kinase B Source RGD Symbol Acc 2357
B05	UPFR1047569	ENSRNOT00000089196.1	Ccn2	ENSRNOG0000015036	cellular communication network factor 2 Source RGD Symbol Acc 621392
B06	UPFR1024358	ENSRNOT00000027407.4	Ctsd	ENSRNOG0000020206	cathepsin D Source RGD Symbol Acc 621511
B07	UPFR1043142	ENSRNOT00000000212.7	Cyp19a1	ENSRNOG0000000196	cytochrome P450, family 19, subfamily a, polypeptide 1 Source RGD Symbol Acc 2457
B08	UPFR1063695	ENSRNOT00000026473.4	Cyp1a1	ENSRNOG0000019500	cytochrome P450, family 1, subfamily a, polypeptide 1 Source RGD Symbol Acc 2458
B09	UPFR1034741	ENSRNOT00000005705.5	Ebag9	ENSRNOG0000004220	estrogen receptor binding site associated, antigen, 9 Source RGD Symbol Acc 1307293
B10	UPFR1088330	ENSRNOT00000045096.2	Efna5	ENSRNOG0000034177	ephrin A5 Source NCBI gene Acc 116683
B11	UPFR1017383	ENSRNOT00000024067.5	Egr3	ENSRNOG0000017828	early growth response 3 Source RGD Symbol Acc 2545
B12	UPFR1024636	ENSRNOT00000009114.7	ErbB2	ENSRNOG0000006450	erb-b2 receptor tyrosine kinase 2 Source RGD Symbol Acc 2561
C01	UPFR1089993	ENSRNOT00000006796.4	ErbB3	ENSRNOG0000004964	erb-b2 receptor tyrosine kinase 3 Source RGD Symbol Acc 69323
C02	UPFR1099141	ENSRNOT00000026350.7	Esr1	ENSRNOG0000019358	estrogen receptor 1 Source RGD Symbol Acc 2581
C03	UPFR1073940	ENSRNOT00000007109.5	Esr2	ENSRNOG0000005343	estrogen receptor 2 Source RGD Symbol Acc 2582
C04	UPFR1045359	ENSRNOT00000010712.3	Fos	ENSRNOG0000008015	Fos proto-oncogene, AP-1 transcription factor subunit Source RGD Symbol Acc 2626
C05	UPFR1081399	ENSRNOT00000009940.6	Foxa1	ENSRNOG0000009284	forkhead box A1 Source RGD Symbol Acc 2807
C06	UPFR1120134	ENSRNOT00000015680.4	Fst	ENSRNOG0000011631	folistatin Source RGD Symbol Acc 2633
C07	UPFR1120389	ENSRNOT00000080887.1	G6pd	ENSRNOG0000056728	glucose-6-phosphate dehydrogenase Source RGD Symbol Acc 2645
C08	UPFR1116517	ENSRNOT00000001732.3	Gper1	ENSRNOG0000001287	G protein-coupled estrogen receptor 1 Source RGD Symbol Acc 619845
C09	UPFR1014170	ENSRNOT00000086310.1	Hsp90aa1	ENSRNOG0000059714	heat shock protein 90 alpha family class A member 1 Source RGD Symbol Acc 631409
C10	UPFR1050099	ENSRNOT00000038780.6	Igf1	ENSRNOG0000004517	insulin-like growth factor 1 Source RGD Symbol Acc 2868
		ENSRNOT000000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFR1118202	014153.7	Igfbp4	000010635	insulin-like growth factor binding protein 4 Source RGD Symbol Acc 2875
C12	UPFR1090111	ENSRNOT00000079493.1	Igfbp5	ENSRNOG0000017206	insulin-like growth factor binding protein 5 Source RGD Symbol Acc 2876
D01	UPFR1099858	ENSRNOT00000019579.5	Irs1	ENSRNOG0000014597	insulin receptor substrate 1 Source RGD Symbol Acc 2922
D02	UPFR1102181	ENSRNOT00000067780.3	Junb	ENSRNOG0000042838	JunB proto-oncogene, AP-1 transcription factor subunit Source RGD Symbol Acc 2944
D03	UPFR1080489	ENSRNOT00000019237.5	Klkb1	ENSRNOG0000014118	kallikrein B1 Source RGD Symbol Acc 67382
D04	UPFR1119616	ENSRNOT00000084390.1	L1cam	ENSRNOG0000061230	L1 cell adhesion molecule Source RGD Symbol Acc 619777
D05	UPFR1040177	ENSRNOT00000013538.6	Lgals1	ENSRNOG0000009884	galectin 1 Source RGD Symbol Acc 69355
D06	UPFR1016556	ENSRNOT00000016543.3	Lpl	ENSRNOG0000012181	lipoprotein lipase Source RGD Symbol Acc 3017
D07	UPFR1061424	ENSRNOT00000047674.4	Ltbp1	ENSRNOG0000033090	latent transforming growth factor beta binding protein 1 Source RGD Symbol Acc 68379
D08	UPFR1061767	ENSRNOT00000017181.4	Maff	ENSRNOG0000012886	MAF bZIP transcription factor F Source RGD Symbol Acc 1309531
D09	UPFR1049249	ENSRNOT00000067901.1	Med1	ENSRNOG0000005606	mediator complex subunit 1 Source RGD Symbol Acc 1559552
D10	UPFR1032957	ENSRNOT00000023965.3	Mmp9	ENSRNOG0000017539	matrix metalloproteinase 9 Source RGD Symbol Acc 621320
D11	UPFR1100782	ENSRNOT00000046456.3	Mta1	ENSRNOG0000004711	metastasis associated 1 Source RGD Symbol Acc 621018
D12	UPFR1101439	ENSRNOT00000006188.5	Myc	ENSRNOG0000004500	MYC proto-oncogene, bHLH transcription factor Source RGD Symbol Acc 3130
E01	UPFR1024113	ENSRNOT00000057745.3	Nab2	ENSRNOG0000008415	Ngfi-A binding protein 2 Source RGD Symbol Acc 1311712
E02	UPFR1021972	ENSRNOT00000011026.5	Ncoa2	ENSRNOG0000007975	nuclear receptor coactivator 2 Source RGD Symbol Acc 620108
E03	UPFR1072465	ENSRNOT00000007768.7	Ncoa3	ENSRNOG0000005616	nuclear receptor coactivator 3 Source RGD Symbol Acc 620109
E04	UPFR1022324	ENSRNOT00000081409.1	Ncor1	ENSRNOG0000055246	nuclear receptor co-repressor 1 Source RGD Symbol Acc 3612
E05	UPFR1112706	ENSRNOT00000001334.6	Ncor2	ENSRNOG000001004	nuclear receptor co-repressor 2 Source RGD Symbol Acc 1310293
E06	UPFR1021801	ENSRNOT00000011904.5	Ccn3	ENSRNOG0000008697	cellular communication network factor 3 Source RGD Symbol Acc 621553
E07	UPFR1084521	ENSRNOT00000005023.4	Nr0b1	ENSRNOG0000003765	nuclear receptor subfamily 0, group B, member 1 Source RGD Symbol Acc 62028
E08	UPFR1041042	ENSRNOT00000009683.2	Nr0b2	ENSRNOG0000007229	nuclear receptor subfamily 0, group B, member 2 Source RGD Symbol Acc 621032
E09	UPFR1079822	ENSRNOT00000022898.3	Nr2f6	ENSRNOG0000016892	nuclear receptor subfamily 2, group F, member 6 Source RGD Symbol Acc 621685
E10	UPFR1073381	ENSRNOT00000044287.4	AABR07031756.1	ENSRNOG0000014096	nuclear receptor subfamily 3, group C, member 1 Source NCBI gene Acc 24413
E11	UPFR1092910	ENSRNOT00000000812.5	Nr5a2	ENSRNOG0000000653	nuclear receptor subfamily 5, group A, member 2 Source RGD Symbol Acc 68353
E12	UPFR1042971	ENSRNOT00000002152.3	Nrip1	ENSRNOG0000001585	nuclear receptor interacting protein 1 Source RGD Symbol Acc 1311850
F01	UPFR1025300	ENSRNOT000000080465.1	Nrp1	ENSRNOG0000010744	neuropilin 1 Source RGD Symbol Acc 621588
F02	UPFR1093052	ENSRNOT00000000107.6	Pdzk1	ENSRNOG0000000096	PDZ domain containing 1 Source RGD Symbol Acc 70924
F03	UPFR1121242	ENSRNOT000000026102.6	Pelp1	ENSRNOG0000019268	proline, glutamate and leucine rich protein 1 Source RGD Symbol Acc 1306320
F04	UPFR1109781	ENSRNOT00000038313.4	Pgr	ENSRNOG0000006831	progesterone receptor Source RGD Symbol Acc 3317
F05	UPFR1067048	ENSRNOT00000017472.7	Phb2	ENSRNOG0000012999	prohibitin 2 Source RGD Symbol Acc 620203
F06	UPFR1054272	ENSRNOT000000086130.1	Ptch1	ENSRNOG0000019354	patched 1 Source RGD Symbol Acc 621425
F07	UPFR1035449	ENSRNOT00000003567.4	Ptgs2	ENSRNOG0000002525	prostaglandin-endoperoxide synthase 2 Source RGD Symbol Acc 620349
F08	UPFR1082097	ENSRNOT00000018190.4	Rala	ENSRNOG0000013454	RAS like proto-oncogene A Source RGD Symbol Acc 619851
F09	UPFR1093798	ENSRNOT00000084644.1	Rara	ENSRNOG0000009972	retinoic acid receptor, alpha Source RGD Symbol Acc 3534
F10	UPFR1056437	ENSRNOT00000015612.5	S100a6	ENSRNOG0000011647	S100 calcium binding protein A6 Source RGD Symbol Acc 620264

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFR1085670	ENSRNOT00000089164.1	Safb	ENSRNOG0000050543	scaffold attachment factor B Source RGD Symbol Acc 620613
F12	UPFR1119713	ENSRNOT00000077581.1	Snai1	ENSRNOG0000009594	snail family transcriptional repressor 1 Source RGD Symbol Acc 620758
G01	UPFR1069728	ENSRNOT00000003940.3	Socs3	ENSRNOG0000002946	suppressor of cytokine signaling 3 Source RGD Symbol Acc 621087
G02	UPFR1100110	ENSRNOT00000067875.4	Spp1	ENSRNOG0000043451	secreted phosphoprotein 1 Source RGD Symbol Acc 3752
G03	UPFR1094006	ENSRNOT00000001538.1	Tff1	ENSRNOG0000001164	trefoil factor 1 Source RGD Symbol Acc 620707
G04	UPFR1060818	ENSRNOT00000057441.4	Tgfa	ENSRNOG0000016182	transforming growth factor alpha Source RGD Symbol Acc 3849
G05	UPFR1030751	ENSRNOT00000013516.5	Tgfb3	ENSRNOG0000009867	transforming growth factor, beta 3 Source RGD Symbol Acc 3851
G06	UPFR1104745	ENSRNOT00000083351.1	Thbs1	ENSRNOG0000045829	thrombospondin 1 Source RGD Symbol Acc 1588455
G07	UPFR1048607	ENSRNOT00000082429.1	Vdr	ENSRNOG0000054420	vitamin D receptor Source RGD Symbol Acc 3959
G08	UPFR1117908	ENSRNOT00000026559.5	Vegfa	ENSRNOG0000019598	vascular endothelial growth factor A Source RGD Symbol Acc 619991
G09	UPFR1121952	ENSRNOT00000014346.6	Ccn5	ENSRNOG0000010666	cellular communication network factor 5 Source RGD Symbol Acc 621867
G10	UPFR1100692	ENSRNOT00000018064.5	Wnt4	ENSRNOG0000013166	Wnt family member 4 Source RGD Symbol Acc 621348
G11	UPFR1100946	ENSRNOT00000021164.3	Wnt5a	ENSRNOG0000015618	Wnt family member 5A Source RGD Symbol Acc 69250
G12	UPFR1118728	ENSRNOT00000014044.6	Xbp1	ENSRNOG0000010298	X-box binding protein 1 Source RGD Symbol Acc 1303073
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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