

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

## Rat Female Infertility

Cat. no. 249955 UPRN-164ZR

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](http://www.qiagen.com) for further details.

	1	2	3	4	5	6	7	8	9	10	11	12
A	Akt1	Anxa2	Apod	Ar	Areg	Bax	Bcl2	C2	C3	Calca	Casp3	Ccl5
B	Ccnb1	Cd55	Cdh1	Cfd	Cldn4	Comp	Crabp2	Csf1	Ctnnb1	Cxcl12	Dkk1	Egf
C	Egfr	Esr1	Esr2	F3	Fbn1	Fn1	Gadd45a	Gast	Gdf15	Gpx3	Hbegf	Hoxa11
D	Icam1	Igf1	Igfbp1	Il11	Il15	Il1a	Il1b	Il1r1	Il6	Itga4	Itgav	Itgb3
E	Kdr	Lama1	Lamc2	Lep	Lif	Lifr	Maoa	Mid1	Mki67	Mmp2	Mmp7	Mmp9
F	Mx1	Muc1	Olfm1	Pcna	Pgf	Pgr	Prl	Plgs1	Plgs2	Glx	Sell	Sfrp4
G	Sod1	Spp1	Stat3	Stmn1	Tgfb1	Timp1	LOC1036943 80	AABR0701832 3.1	Tp53	Vcam1	Vegfa	Wnt2
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	UPFR1083196	ENSRNOT00000031164.3	Akt1	ENSRNOG0000028629	AKT serine/threonine kinase 1 Source RGD Symbol Acc 2081
A02	UPFR1119904	ENSRNOT00000038677.5	Anxa2	ENSRNOG0000010362	annexin A2 Source RGD Symbol Acc 621170
A03	UPFR1023662	ENSRNOT00000073330.2	Apod	ENSRNOG0000048273	apolipoprotein D Source RGD Symbol Acc 2137
A04	UPFR1020040	ENSRNOT00000009129.7	Ar	ENSRNOG0000005639	androgen receptor Source RGD Symbol Acc 2147
A05	UPFR1060559	ENSRNOT00000003703.4	Areg	ENSRNOG0000002754	amphiregulin Source RGD Symbol Acc 2149
A06	UPFR1074536	ENSRNOT00000028328.5	Bax	ENSRNOG0000020876	BCL2 associated X, apoptosis regulator Source RGD Symbol Acc 2192
A07	UPFR1082998	ENSRNOT00000003768.2	Bcl2	ENSRNOG0000002791	BCL2, apoptosis regulator Source RGD Symbol Acc 2199
A08	UPFR1032993	ENSRNOT00000060607.4	C2	ENSRNOG0000051235	complement C2 Source RGD Symbol Acc 2231
A09	UPFR1069924	ENSRNOT00000075494.1	C3	ENSRNOG0000046834	complement C3 Source RGD Symbol Acc 2232
A10	UPFR1035100	ENSRNOT00000055124.4	Calca	ENSRNOG0000011130	calcitonin-related polypeptide alpha Source RGD Symbol Acc 2254
A11	UPFR1091664	ENSRNOT00000014095.5	Casp3	ENSRNOG0000010475	caspase 3 Source RGD Symbol Acc 2275
A12	UPFR1019085	ENSRNOT00000014865.6	Ccl5	ENSRNOG0000010906	C-C motif chemokine ligand 5 Source RGD Symbol Acc 69069
B01	UPFR1042030	ENSRNOT00000082846.1	Ccnb1	ENSRNOG0000058539	cyclin B1 Source RGD Symbol Acc 2291
B02	UPFR1055916	ENSRNOT00000005284.6	Cd55	ENSRNOG0000003927	CD55 molecule Source RGD Symbol Acc 620651
B03	UPFR1037315	ENSRNOT00000027346.2	Cdh1	ENSRNOG0000020151	cadherin 1 Source RGD Symbol Acc 69279
B04	UPFR1118599	ENSRNOT00000015029.4	Cfd	ENSRNOG0000033564	complement factor D Source RGD Symbol Acc 2498
B05	UPFR1100674	ENSRNOT00000002003.4	Cldn4	ENSRNOG0000001476	claudin 4 Source RGD Symbol Acc 1307932
B06	UPFR1109491	ENSRNOT00000072536.2	Comp	ENSRNOG0000048472	cartilage oligomeric matrix protein Source RGD Symbol Acc 2378
B07	UPFR1030745	ENSRNOT00000025183.2	Crabp2	ENSRNOG0000022101	cellular retinoic acid binding protein 2 Source RGD Symbol Acc 62070
B08	UPFR1022984	ENSRNOT00000081835.1	Csf1	ENSRNOG0000018659	colony stimulating factor 1 Source RGD Symbol Acc 621063
B09	UPFR1057605	ENSRNOT00000079085.1	Cttnb1	ENSRNOG0000054172	catenin beta 1 Source RGD Symbol Acc 70487
B10	UPFR1044005	ENSRNOT00000066670.3	Cxcl12	ENSRNOG0000013589	C-X-C motif chemokine ligand 12 Source RGD Symbol Acc 3651
B11	UPFR1075162	ENSRNOT00000015771.7	Dkk1	ENSRNOG0000011692	dickkopf WNT signaling pathway inhibitor 1 Source RGD Symbol Acc 1307313
B12	UPFR1045222	ENSRNOT00000087007.1	Egf	ENSRNOG0000053979	epidermal growth factor Source RGD Symbol Acc 2542
C01	UPFR1091984	ENSRNOT00000006087.2	Egfr	ENSRNOG0000004332	epidermal growth factor receptor Source RGD Symbol Acc 2543
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	UPFR1038904	ENSRNOT00000015836.5	F3	ENSRNOG0000011800	coagulation factor III, tissue factor Source RGD Symbol Acc 2587
C05	UPFR1052275	ENSRNOT00000056022.3	Fbn1	ENSRNOG0000007302	fibrillin 1 Source RGD Symbol Acc 620908
C06	UPFR1089380	ENSRNOT00000057585.4	Fn1	ENSRNOG0000014288	fibronectin 1 Source RGD Symbol Acc 2624
C07	UPFR1092990	ENSRNOT00000007698.6	Gadd45a	ENSRNOG0000005615	growth arrest and DNA-damage-inducible, alpha Source RGD Symbol Acc 2654
C08	UPFR1057647	ENSRNOT00000019863.2	Gast	ENSRNOG0000014740	gastrin Source RGD Symbol Acc 2662
C09	UPFR1099357	ENSRNOT00000026652.3	Gdf15	ENSRNOG0000019661	growth differentiation factor 15 Source RGD Symbol Acc 2674
C10	UPFR1072810	ENSRNOT00000079830.1	Gpx3	ENSRNOG0000052564	glutathione peroxidase 3 Source RGD Symbol Acc 69224
		ENSRNOT000000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFR1043686	025157.6	Hbegf	000018646	heparin-binding EGF-like growth factor Source RGD Symbol Acc 2526
C12	UPFR1076006	ENSRNOT00000 071568.2	Hoxa11	ENSRNOG00 000053884	homeobox A11 Source RGD Symbol Acc 1564605
D01	UPFR1031281	ENSRNOT00000 028066.5	Icam1	ENSRNOG00 000020679	intercellular adhesion molecule 1 Source RGD Symbol Acc 2857
D02	UPFR1050099	ENSRNOT00000 038780.6	Igf1	ENSRNOG00 000004517	insulin-like growth factor 1 Source RGD Symbol Acc 2868
D03	UPFR1053345	ENSRNOT00000 077177.1	Igfbp1	ENSRNOG00 000058780	insulin-like growth factor binding protein 1 Source RGD Symbol Acc 2872
D04	UPFR1065504	ENSRNOT00000 023489.5	Il11	ENSRNOG00 000017386	interleukin 11 Source RGD Symbol Acc 621475
D05	UPFR1102147	ENSRNOT00000 004590.6	Il15	ENSRNOG00 000003439	interleukin 15 Source RGD Symbol Acc 2887
D06	UPFR1066959	ENSRNOT00000 080818.1	Il1a	ENSRNOG00 000004575	interleukin 1 alpha Source RGD Symbol Acc 2890
D07	UPFR1121351	ENSRNOT00000 006308.4	Il1b	ENSRNOG00 000004649	interleukin 1 beta Source RGD Symbol Acc 2891
D08	UPFR1025024	ENSRNOT00000 082146.1	Il1r1	ENSRNOG00 000014504	interleukin 1 receptor type 1 Source RGD Symbol Acc 2892
D09	UPFR1098910	ENSRNOT00000 013732.6	Il6	ENSRNOG00 000010278	interleukin 6 Source RGD Symbol Acc 2901
D10	UPFR1097667	ENSRNOT00000 006880.6	Itga4	ENSRNOG00 000004861	integrin subunit alpha 4 Source RGD Symbol Acc 1593249
D11	UPFR1097241	ENSRNOT00000 006961.7	Itgav	ENSRNOG00 000004912	integrin subunit alpha V Source RGD Symbol Acc 1310613
D12	UPFR1016531	ENSRNOT00000 073350.2	Itgb3	ENSRNOG00 000048449	integrin subunit beta 3 Source RGD Symbol Acc 628868
E01	UPFR1041145	ENSRNOT00000 085089.1	Kdr	ENSRNOG00 000046829	kinase insert domain receptor Source RGD Symbol Acc 2965
E02	UPFR1092904	ENSRNOT00000 023226.6	Lama1	ENSRNOG00 000017237	laminin subunit alpha 1 Source RGD Symbol Acc 1307207
E03	UPFR1094241	ENSRNOT00000 092499.1	Lamc2	ENSRNOG00 000002667	laminin subunit gamma 2 Source RGD Symbol Acc 621053
E04	UPFR1089630	ENSRNOT00000 071926.1	Lep	ENSRNOG00 000045797	leptin Source RGD Symbol Acc 3000
E05	UPFR1017798	ENSRNOT00000 009313.4	Lif	ENSRNOG00 000007002	LIF, interleukin 6 family cytokine Source RGD Symbol Acc 620865
E06	UPFR1072192	ENSRNOT00000 016036.4	Lifr	ENSRNOG00 000011696	LIF receptor alpha Source RGD Symbol Acc 621431
E07	UPFR1111375	ENSRNOT00000 066674.2	Maoa	ENSRNOG00 000002848	monoamine oxidase A Source RGD Symbol Acc 61898
E08	UPFR1097462	ENSRNOT00000 086414.1	Mid1	ENSRNOG00 000003613	midline 1 Source RGD Symbol Acc 2640
E09	UPFR1066912	ENSRNOT00000 038176.5	Mki67	ENSRNOG00 000028137	marker of proliferation Ki-67 Source RGD Symbol Acc 1305476
E10	UPFR1080151	ENSRNOT00000 022679.6	Mmp2	ENSRNOG00 000016695	matrix metalloproteinase 2 Source RGD Symbol Acc 621316
E11	UPFR1034539	ENSRNOT00000 014041.5	Mmp7	ENSRNOG00 000010507	matrix metalloproteinase 7 Source RGD Symbol Acc 3100
E12	UPFR1032957	ENSRNOT00000 023965.3	Mmp9	ENSRNOG00 000017539	matrix metalloproteinase 9 Source RGD Symbol Acc 621320
F01	UPFR1053919	ENSRNOT00000 009101.5	Msx1	ENSRNOG00 000006876	msh homeobox 1 Source RGD Symbol Acc 620929
F02	UPFR1039208	ENSRNOT00000 027850.7	Muc1	ENSRNOG00 000020539	mucin 1, cell surface associated Source RGD Symbol Acc 3122
F03	UPFR1078076	ENSRNOT00000 013443.6	Olfm1	ENSRNOG00 000009862	olfactomedin 1 Source RGD Symbol Acc 620320
F04	UPFR1093185	ENSRNOT00000 028887.6	Pcna	ENSRNOG00 000021264	proliferating cell nuclear antigen Source RGD Symbol Acc 3269
F05	UPFR1118244	ENSRNOT00000 007790.5	Pgf	ENSRNOG00 000005650	placental growth factor Source RGD Symbol Acc 619850
F06	UPFR1109781	ENSRNOT00000 038313.4	Pgr	ENSRNOG00 000006831	progesterone receptor Source RGD Symbol Acc 3317
F07	UPFR1015066	ENSRNOT00000 023412.4	Prl	ENSRNOG00 000017374	prolactin Source RGD Symbol Acc 3403
F08	UPFR1053064	ENSRNOT00000 010218.5	Ptgs1	ENSRNOG00 000007415	prostaglandin-endoperoxide synthase 1 Source RGD Symbol Acc 3439
F09	UPFR1035449	ENSRNOT00000 003567.4	Ptgs2	ENSRNOG00 000002525	prostaglandin-endoperoxide synthase 2 Source RGD Symbol Acc 620349
F10	UPFR1069386	ENSRNOT00000 016372.5	Glrx	ENSRNOG00 000012183	glutaredoxin Source RGD Symbol Acc 70951

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFR1104551	ENSRNOT00000003733.6	Sell	ENSRNOG0000002776	selectin L Source RGD Symbol Acc 3655
F12	UPFR1093667	ENSRNOT00000079368.1	Sfrp4	ENSRNOG0000054957	secreted frizzled-related protein 4 Source RGD Symbol Acc 621075
G01	UPFR1062096	ENSRNOT0000002885.6	Sod1	ENSRNOG0000002115	superoxide dismutase 1 Source RGD Symbol Acc 3731
G02	UPFR1100110	ENSRNOT00000067875.4	Spp1	ENSRNOG0000043451	secreted phosphoprotein 1 Source RGD Symbol Acc 3752
G03	UPFR1040072	ENSRNOT00000026760.4	Stat3	ENSRNOG0000019742	signal transducer and activator of transcription 3 Source RGD Symbol Acc 3772
G04	UPFR1042874	ENSRNOT00000022574.5	Stmn1	ENSRNOG0000016810	stathmin 1 Source RGD Symbol Acc 2992
G05	UPFR1103881	ENSRNOT00000028051.4	Tgfb1	ENSRNOG0000020652	transforming growth factor, beta 1 Source RGD Symbol Acc 69051
G06	UPFR1060230	ENSRNOT00000013745.7	Timp1	ENSRNOG0000010208	TIMP metalloproteinase inhibitor 1 Source RGD Symbol Acc 621675
G07	UPFR1098022	ENSRNOT00000079677.1	LOC103694380	ENSRNOG0000055156	tumor necrosis factor-like Source RGD Symbol Acc 9404643
G08	UPFR1016844	ENSRNOT00000066128.4	AABR07018323.1	ENSRNOG0000038483	
G09	UPFR1095007	ENSRNOT00000085115.1	Tp53	ENSRNOG0000010756	tumor protein p53 Source RGD Symbol Acc 3889
G10	UPFR1101375	ENSRNOT00000019377.5	Vcam1	ENSRNOG0000014333	vascular cell adhesion molecule 1 Source RGD Symbol Acc 3952
G11	UPFR1117908	ENSRNOT00000026559.5	Vegfa	ENSRNOG0000019598	vascular endothelial growth factor A Source RGD Symbol Acc 619991
G12	UPFR1075306	ENSRNOT00000083039.1	Wnt2	ENSRNOG0000051905	Wnt family member 2 Source RGD Symbol Acc 621346
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 $\mu$ l reactions: 20 $\mu$ l 8x gDNA Removal Mix, 10 $\mu$ l Reverse Transcription Enzyme, 40 $\mu$ l Reverse Transcription Mix (containing RT primers), 20 $\mu$ l Internal Control RNA, 1.9 ml RNase-Free Water	205410
QuantiNova Probe RT-PCR Kit (100)*	For 100 x 20 $\mu$ l reactions: 1 ml QuantiNova Probe RT-PCR Master Mix, 20 $\mu$ l QuantiNova Probe RT Mix, 20 $\mu$ l Internal Control RNA, 500 $\mu$ l Yellow Template Dilution Buffer, 250 $\mu$ l ROX Reference Dye, 1.9 $\mu$ l RNase-Free Water	208352
QuantiNova Probe PCR Kit (100)*	For 100 x 20 $\mu$ l reactions: 1 ml 2x QuantiNova Probe PCR Master Mix, 500 $\mu$ l QuantiNova Yellow Template Dilution Buffer, 250 $\mu$ 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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