

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

Rat Insulin Resistance

Cat. no. 249955 UPRN-156ZR

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	Acaca	Acacb	Acs1	Acs14	Adipoq	Adipor1	Adipor2	Akt3	Alox5	Apoe	Casp1	Ccl12
B	Ccr4	Ccr5	Ccr6	RGD1565355	Cd3e	Cebpa	Chuk	Cnbp	Crtf2	Cs	Cxcr3	Cxcr4
C	Adgre1	Fabp4	Fasn	Gys1	Hk2	Ifng	Igf1	Igf1r	Ikbb	Il18r1	Il1b	Il1r1
D	Il23r	Il6	Insr	Irs1	Irs2	Jak2	Lep	Lepr	Lipe	Lpl	Lta4h	Map2k1
E	Mapk3	Mapk9	Mtor	Nampt	Nkbia	Nlrp3	Olr1	Pck1	Pde3b	Pdk2	Pdx1	Pik3ca
F	Pik3r1	Ppara	Pparg	Ppargc1a	Ptpn1	Pycard	Rbp4	Rela	Retn	Rps6kb1	Scd	Serpine1
G	Slc27a1	Slc2a4	Socs3	Srebf1	Srebf2	Slat3	Tlr4	LOC1036943 80	Tnfrsf1a	Tnfrsf1b	Ucp1	Vldlr
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	UPFR1068311	ENSRNOT00000088138.1	Acaca	ENSRNOG0000034013	acetyl-CoA carboxylase alpha Source RGD Symbol Acc 621248
A02	UPFR1043941	ENSRNOT00000080557.1	Acacb	ENSRNOG0000000658	acetyl-CoA carboxylase beta Source RGD Symbol Acc 620500
A03	UPFR1104275	ENSRNOT00000089501.1	Acs1	ENSRNOG0000010633	acyl-CoA synthetase long-chain family member 1 Source RGD Symbol Acc 2015
A04	UPFR1082627	ENSRNOT00000026057.6	Acs14	ENSRNOG0000019180	acyl-CoA synthetase long-chain family member 4 Source RGD Symbol Acc 69401
A05	UPFR1094195	ENSRNOT00000089988.1	Adipoq	ENSRNOG0000001821	adiponectin, C1Q and collagen domain containing Source RGD Symbol Acc 628748
A06	UPFR1081829	ENSRNOT00000005551.4	Adipor1	ENSRNOG0000004143	adiponectin receptor 1 Source RGD Symbol Acc 1303151
A07	UPFR1078945	ENSRNOT00000010556.5	Adipor2	ENSRNOG0000007990	adiponectin receptor 2 Source RGD Symbol Acc 1307891
A08	UPFR1105050	ENSRNOT00000085648.1	Akt3	ENSRNOG0000021497	AKT serine/threonine kinase 3 Source RGD Symbol Acc 62390
A09	UPFR1115697	ENSRNOT00000017633.5	Alox5	ENSRNOG0000012972	arachidonate 5-lipoxygenase Source RGD Symbol Acc 2096
A10	UPFR1073431	ENSRNOT00000091574.1	ApoE	ENSRNOG0000018454	apolipoprotein E Source RGD Symbol Acc 2138
A11	UPFR1052168	ENSRNOT00000009993.6	Casp1	ENSRNOG0000007372	caspase 1 Source RGD Symbol Acc 2274
A12	UPFR1080637	ENSRNOT00000031626.5	Ccl12	ENSRNOG0000029768	chemokine (C-C motif) ligand 12 Source RGD Symbol Acc 1309255
B01	UPFR1083127	ENSRNOT00000013705.3	Ccr4	ENSRNOG0000010315	C-C motif chemokine receptor 4 Source RGD Symbol Acc 620594
B02	UPFR1023768	ENSRNOT00000082774.1	Ccr5	ENSRNOG0000049115	C-C motif chemokine receptor 5 Source RGD Symbol Acc 620596
B03	UPFR1017916	ENSRNOT00000017302.6	Ccr6	ENSRNOG0000012964	C-C motif chemokine receptor 6 Source RGD Symbol Acc 1308562
B04	UPFR1013797	ENSRNOT00000008319.8	RGD1565355	ENSRNOG0000040108	similar to fatty acid translocase/CD36 Source RGD Symbol Acc 1565355
B05	UPFR1060410	ENSRNOT00000047291.4	Cd3e	ENSRNOG0000016069	CD3e molecule Source RGD Symbol Acc 1309222
B06	UPFR1048419	ENSRNOT00000014517.5	Cebpa	ENSRNOG0000010918	CCAAT/enhancer binding protein alpha Source RGD Symbol Acc 2326
B07	UPFR1110725	ENSRNOT00000030782.4	Chuk	ENSRNOG0000022485	conserved helix-loop-helix ubiquitous kinase Source RGD Symbol Acc 1306661
B08	UPFR1071596	ENSRNOT00000013884.6	Cnbp	ENSRNOG0000010239	CCHC-type zinc finger, nucleic acid binding protein Source RGD Symbol Acc 621807
B09	UPFR1021186	ENSRNOT00000075656.1	Crrf2	ENSRNOG0000049828	cytokine receptor-like factor 2 Source RGD Symbol Acc 621078
B10	UPFR1047280	ENSRNOT00000033726.5	Cs	ENSRNOG0000023520	citrate synthase Source RGD Symbol Acc 620330
B11	UPFR1064685	ENSRNOT00000076210.1	Cxcr3	ENSRNOG000003305	C-X-C motif chemokine receptor 3 Source RGD Symbol Acc 621528
B12	UPFR1030244	ENSRNOT00000005143.6	Cxcr4	ENSRNOG000003866	C-X-C motif chemokine receptor 4 Source RGD Symbol Acc 620465
C01	UPFR1025839	ENSRNOT00000073926.2	Adgre1	ENSRNOG0000046254	adhesion G protein-coupled receptor E1 Source RGD Symbol Acc 1359214
C02	UPFR1043524	ENSRNOT00000014701.7	Fabp4	ENSRNOG0000010805	fatty acid binding protein 4 Source RGD Symbol Acc 69309
C03	UPFR1036900	ENSRNOT00000073321.2	Fasn	ENSRNOG0000045636	fatty acid synthase Source RGD Symbol Acc 620665
C04	UPFR1022867	ENSRNOT00000028271.3	Gys1	ENSRNOG0000020812	glycogen synthase 1 Source RGD Symbol Acc 1589798
C05	UPFR1093740	ENSRNOT00000008813.3	Hk2	ENSRNOG0000006116	hexokinase 2 Source RGD Symbol Acc 2797
C06	UPFR1084134	ENSRNOT00000009919.2	Ifng	ENSRNOG000007468	interferon gamma Source RGD Symbol Acc 2866
C07	UPFR1050099	ENSRNOT00000038780.6	Igf1	ENSRNOG0000004517	insulin-like growth factor 1 Source RGD Symbol Acc 2868
C08	UPFR1018620	ENSRNOT00000019267.6	Igf1r	ENSRNOG0000014187	insulin-like growth factor 1 receptor Source RGD Symbol Acc 2869
C09	UPFR1104220	ENSRNOT00000025851.4	Ikbbp	ENSRNOG0000019073	inhibitor of nuclear factor kappa B kinase subunit beta Source RGD Symbol Acc 621375
C10	UPFR1102668	ENSRNOT00000020194.7	Il18r1	ENSRNOG0000015027	interleukin 18 receptor 1 Source RGD Symbol Acc 1308589
		ENSRNOT000000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFR1121351	006308.4	Il1b	000004649	interleukin 1 beta Source RGD Symbol Acc 2891
C12	UPFR1025024	ENSRNOT00000 082146.1	Il1r1	ENSRNOG00 000014504	interleukin 1 receptor type 1 Source RGD Symbol Acc 2892
D01	UPFR1052941	ENSRNOT00000 010151.5	Il23r	ENSRNOG00 000007544	interleukin 23 receptor Source RGD Symbol Acc 1586368
D02	UPFR1098910	ENSRNOT00000 013732.6	Il6	ENSRNOG00 000010278	interleukin 6 Source RGD Symbol Acc 2901
D03	UPFR1014864	ENSRNOT00000 041155.3	Insr	ENSRNOG00 000029986	insulin receptor Source RGD Symbol Acc 2917
D04	UPFR1099858	ENSRNOT00000 019579.5	Irs1	ENSRNOG00 000014597	insulin receptor substrate 1 Source RGD Symbol Acc 2922
D05	UPFR1089782	ENSRNOT00000 032918.6	Irs2	ENSRNOG00 000023509	insulin receptor substrate 2 Source RGD Symbol Acc 69316
D06	UPFR1096799	ENSRNOT00000 087011.1	Jak2	ENSRNOG00 000059968	Janus kinase 2 Source RGD Symbol Acc 2939
D07	UPFR1089630	ENSRNOT00000 071926.1	Lep	ENSRNOG00 000045797	leptin Source RGD Symbol Acc 3000
D08	UPFR1076079	ENSRNOT00000 050597.5	LepR	ENSRNOG00 000023664	leptin receptor Source RGD Symbol Acc 3001
D09	UPFR1057468	ENSRNOT00000 027910.2	Lipe	ENSRNOG00 000020546	lipase E, hormone sensitive type Source RGD Symbol Acc 3010
D10	UPFR1016556	ENSRNOT00000 016543.3	Lpl	ENSRNOG00 000012181	lipoprotein lipase Source RGD Symbol Acc 3017
D11	UPFR1045578	ENSRNOT00000 005930.4	Lta4h	ENSRNOG00 000004494	leukotriene A4 hydrolase Source RGD Symbol Acc 1311333
D12	UPFR1053192	ENSRNOT00000 013933.6	Map2k1	ENSRNOG00 000010176	mitogen activated protein kinase kinase 1 Source RGD Symbol Acc 70495
E01	UPFR1049954	ENSRNOT00000 087625.1	Mapk3	ENSRNOG00 000053583	mitogen activated protein kinase 3 Source RGD Symbol Acc 3046
E02	UPFR1038865	ENSRNOT00000 083688.1	Mapk9	ENSRNOG00 000002823	mitogen-activated protein kinase 9 Source RGD Symbol Acc 628847
E03	UPFR1112219	ENSRNOT00000 080751.1	Mtor	ENSRNOG00 000009615	mechanistic target of rapamycin kinase Source RGD Symbol Acc 68371
E04	UPFR1037521	ENSRNOT00000 013043.6	Nampt	ENSRNOG00 000009754	nicotinamide phosphoribosyltransferase Source RGD Symbol Acc 631365
E05	UPFR1024664	ENSRNOT00000 009894.6	Nfkb1a	ENSRNOG00 000007390	NFKB inhibitor alpha Source RGD Symbol Acc 3171
E06	UPFR1036618	ENSRNOT00000 004280.5	Nlrp3	ENSRNOG00 000003170	NLR family, pyrin domain containing 3 Source RGD Symbol Acc 1308314
E07	UPFR1028876	ENSRNOT00000 086390.1	Olr1	ENSRNOG00 000056219	oxidized low density lipoprotein receptor 1 Source RGD Symbol Acc 620515
E08	UPFR1076964	ENSRNOT00000 031586.6	Pck1	ENSRNOG00 000028616	phosphoenolpyruvate carboxykinase 1 Source RGD Symbol Acc 3267
E09	UPFR1040575	ENSRNOT00000 015498.4	Pde3b	ENSRNOG00 000011417	phosphodiesterase 3B Source RGD Symbol Acc 61943
E10	UPFR1067189	ENSRNOT00000 005641.6	Pdk2	ENSRNOG00 000004172	pyruvate dehydrogenase kinase 2 Source RGD Symbol Acc 69428
E11	UPFR1048236	ENSRNOT00000 071942.1	Pdx1	ENSRNOG00 000046458	pancreatic and duodenal homeobox 1 Source RGD Symbol Acc 62387
E12	UPFR1035210	ENSRNOT00000 083720.1	Pik3ca	ENSRNOG00 000056371	phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit alpha Source RGD Symbol Acc 620916
F01	UPFR1035231	ENSRNOT00000 075057.1	Pik3r1	ENSRNOG00 000018903	phosphoinositide-3-kinase regulatory subunit 1 Source RGD Symbol Acc 3329
F02	UPFR1039308	ENSRNOT00000 030082.2	Ppara	ENSRNOG00 000021463	peroxisome proliferator activated receptor alpha Source RGD Symbol Acc 3369
F03	UPFR1091351	ENSRNOT00000 051858.5	Pparg	ENSRNOG00 000008839	peroxisome proliferator-activated receptor gamma Source RGD Symbol Acc 3371
F04	UPFR1107303	ENSRNOT00000 006071.5	Ppargc1a	ENSRNOG00 000004473	PPARG coactivator 1 alpha Source RGD Symbol Acc 620925
F05	UPFR1035305	ENSRNOT00000 014309.4	Ptpn1	ENSRNOG00 000010574	protein tyrosine phosphatase, non-receptor type 1 Source RGD Symbol Acc 61965
F06	UPFR1097767	ENSRNOT00000 026699.4	Pycard	ENSRNOG00 000019675	PYD and CARD domain containing Source RGD Symbol Acc 628637
F07	UPFR1019843	ENSRNOT00000 021055.7	Rbp4	ENSRNOG00 000015518	retinol binding protein 4 Source RGD Symbol Acc 3546
F08	UPFR1070877	ENSRNOT00000 045233.3	Rela	ENSRNOG00 000030888	RELA proto-oncogene, NF-kB subunit Source RGD Symbol Acc 727889
F09	UPFR1112127	ENSRNOT00000 091197.1	Retn	ENSRNOG00 000001001	resistin Source RGD Symbol Acc 628781
F10	UPFR1107808	ENSRNOT00000 005226.4	Rps6kb1	ENSRNOG00 000003919	ribosomal protein S6 kinase B1 Source RGD Symbol Acc 620683

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFR1069413	ENSRNOT00000018447.5	Scd	ENSRNOG0000013552	stearoyl-CoA desaturase Source RGD Symbol Acc 621176
F12	UPFR1051798	ENSRNOT00000001916.2	Serpine1	ENSRNOG0000001414	serpin family E member 1 Source RGD Symbol Acc 3249
G01	UPFR1014919	ENSRNOT00000024659.4	Slc27a1	ENSRNOG0000018170	solute carrier family 27 member 1 Source RGD Symbol Acc 620927
G02	UPFR1026140	ENSRNOT00000023256.5	Slc2a4	ENSRNOG0000017226	solute carrier family 2 member 4 Source RGD Symbol Acc 2711
G03	UPFR1069728	ENSRNOT00000003940.3	Socs3	ENSRNOG0000002946	suppressor of cytokine signaling 3 Source RGD Symbol Acc 621087
G04	UPFR1104408	ENSRNOT00000004753.5	Srebf1	ENSRNOG0000003463	sterol regulatory element binding transcription factor 1 Source RGD Symbol Acc 69423
G05	UPFR1026089	ENSRNOT000000082603.1	Srebf2	ENSRNOG0000007400	sterol regulatory element binding transcription factor 2 Source RGD Symbol Acc 1307751
G06	UPFR1040072	ENSRNOT000000026760.4	Stat3	ENSRNOG0000019742	signal transducer and activator of transcription 3 Source RGD Symbol Acc 3772
G07	UPFR1020675	ENSRNOT000000014020.3	Tlr4	ENSRNOG0000010522	toll-like receptor 4 Source RGD Symbol Acc 3870
G08	UPFR1098022	ENSRNOT000000079677.1	LOC103694380	ENSRNOG0000055156	tumor necrosis factor-like Source RGD Symbol Acc 9404643
G09	UPFR1079067	ENSRNOT000000048529.4	Tnfrsf1a	ENSRNOG00000031312	TNF receptor superfamily member 1A Source RGD Symbol Acc 621237
G10	UPFR1064277	ENSRNOT000000022478.4	Tnfrsf1b	ENSRNOG0000016575	TNF receptor superfamily member 1B Source RGD Symbol Acc 621238
G11	UPFR1121701	ENSRNOT000000004900.4	Ucp1	ENSRNOG0000003580	uncoupling protein 1 Source RGD Symbol Acc 3931
G12	UPFR1017568	ENSRNOT000000035814.3	Vldlr	ENSRNOG0000027491	very low density lipoprotein receptor Source RGD Symbol Acc 3963
H01	UPFR1132952	ENSRNOT000000080216.1	Actb	ENSRNOG0000034254	actin, beta Source RGD Symbol Acc 628837
H02	UPFR1132953	ENSRNOT000000023017.5	B2m	ENSRNOG0000017123	beta-2 microglobulin Source RGD Symbol Acc 2189
H03	UPFR1132959	ENSRNOT000000065935.3	Hprt1	ENSRNOG0000048561	hypoxanthine phosphoribosyltransferase 1 Source RGD Symbol Acc 2826
H04	UPFR1018740	ENSRNOT000000017468.2	Ldha	ENSRNOG0000013009	lactate dehydrogenase A Source RGD Symbol Acc 2996
H05	UPFR1132958	ENSRNOT000000018820.5	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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