

QuantiNova® LNA® Probe PCR Focus Panels (96-Well Format and 384-Well [4 x 96] Format)

Rat Adipogenesis

Cat. no. 249955 UPRN-049ZA

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 (96-well): QuantiNova LNA Probe PCR Focus Panel

For the 384-well (4 × 96) PCR panels, genes are present in a staggered format. 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	Acacb	Adipoq	Adrb2	Ag1	Angpt2	Creb5	Bmp2	Bmp4	Bmp7	Ccnd1	Cdk4	Cdkn1a
B	Cdkn1b	Cebpa	Cebpb	Cebpd	Cfd	Creb1	Ddit3	AC118957.1	Dkk1	Dlk1	E2f1	Egr2
C	Fabp4	Fasn	Fgf1	Fgf10	Fgf2	Fos	Foxc2	Gata2	Gata3	Hes1	Insr	Irs1
D	Irs2	Jun	Klf15	Klf2	Klf3	Klf4	Lep	Lipe	Lmna	Lpl	Lrp5	Mapk14
E	Ncoa2	Ncor1	Ncor2	Nr0b2	Nr1h3	Nrf1	Ppara	Ppard	Pparg	Ppargc1a	Ppargc1b	Rb1
F	Retn	Rumx1l1	Rxa	Sfrp1	Sfrp5	Shh	AABR0704492 5.1	Sirt2	Sirt3	Slc2a4	Src	Srebf1
G	Stat5a	Taz	Tcf7l2	Tsc22d3	Twist1	Ucp1	Vdr	Wnt1	Wnt10b	Wnt3a	Wnt5a	Wnt5b
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	UPFR1043941	ENSRNOT00000080557.1	Acacb	ENSRNOG0000000658	acetyl-CoA carboxylase beta Source RGD Symbol Acc 620500
A02	UPFR1094195	ENSRNOT00000089988.1	Adipoq	ENSRNOG0000001821	adiponectin, C1Q and collagen domain containing Source RGD Symbol Acc 628748
A03	UPFR1035973	ENSRNOT00000026098.3	Adrb2	ENSRNOG0000019217	adrenoceptor beta 2 Source RGD Symbol Acc 2060
A04	UPFR1049261	ENSRNOT00000024917.4	Agt	ENSRNOG0000018445	angiotensinogen Source RGD Symbol Acc 2069
A05	UPFR1036335	ENSRNOT00000022774.6	Angpt2	ENSRNOG0000016696	angiopoietin 2 Source RGD Symbol Acc 621861
A06	UPFR1021776	ENSRNOT00000031365.5	Creb5	ENSRNOG0000008622	cAMP responsive element binding protein 5 Source RGD Symbol Acc 1566107
A07	UPFR1023820	ENSRNOT00000028904.4	Bmp2	ENSRNOG0000021276	bone morphogenetic protein 2 Source RGD Symbol Acc 2211
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	UPFR1042457	ENSRNOT00000088588.1	Ccnd1	ENSRNOG0000020918	cyclin D1 Source RGD Symbol Acc 68384
A11	UPFR1035170	ENSRNOT00000031796.4	Cdk4	ENSRNOG0000025602	cyclin-dependent kinase 4 Source RGD Symbol Acc 621120
A12	UPFR1028644	ENSRNOT00000091731.1	Cdkn1a	ENSRNOG0000000521	cyclin-dependent kinase inhibitor 1A Source RGD Symbol Acc 69328
B01	UPFR1069360	ENSRNOT00000049848.1	Cdkn1b	ENSRNOG0000007249	cyclin-dependent kinase inhibitor 1B Source RGD Symbol Acc 69062
B02	UPFR1048419	ENSRNOT00000014517.5	Cebpa	ENSRNOG0000010918	CCAAT/enhancer binding protein alpha Source RGD Symbol Acc 2326
B03	UPFR1126579	ENSRNOT00000083876.1	Cebpb	ENSRNOG0000057347	CCAAT/enhancer binding protein beta Source RGD Symbol Acc 2327
B04	UPFR1073105	ENSRNOT00000074586.2	Cebpd	ENSRNOG0000050869	CCAAT/enhancer binding protein delta Source RGD Symbol Acc 2328
B05	UPFR1118599	ENSRNOT00000015029.4	Cfd	ENSRNOG0000033564	complement factor D Source RGD Symbol Acc 2498
B06	UPFR1042088	ENSRNOT00000018326.5	Creb1	ENSRNOG0000013412	cAMP responsive element binding protein 1 Source RGD Symbol Acc 620218
B07	UPFR1119718	ENSRNOT00000008941.5	Ddit3	ENSRNOG0000006789	DNA-damage inducible transcript 3 Source RGD Symbol Acc 62391
B08	UPFR1053729	ENSRNOT000000005162.3	AC118957.1	ENSRNOG0000003891	Putative preoptic regulatory factor 1 Source UniProtKB/Swiss-Prot Acc P18889
B09	UPFR1075162	ENSRNOT00000015771.7	Dkk1	ENSRNOG0000011692	dickkopf WNT signaling pathway inhibitor 1 Source RGD Symbol Acc 1307313
B10	UPFR1103659	ENSRNOT00000006339.6	Dlk1	ENSRNOG0000019584	delta like non-canonical Notch ligand 1 Source RGD Symbol Acc 619931
B11	UPFR1077824	ENSRNOT00000022428.6	E2f1	ENSRNOG0000016708	N-terminal EF-hand calcium binding protein 3 Source RGD Symbol Acc 1310124
B12	UPFR1023028	ENSRNOT00000000792.4	Egr2	ENSRNOG0000000640	early growth response 2 Source RGD Symbol Acc 621608
C01	UPFR1043524	ENSRNOT00000014701.7	Fabp4	ENSRNOG0000010805	fatty acid binding protein 4 Source RGD Symbol Acc 69309
C02	UPFR1036900	ENSRNOT00000073321.2	Fasn	ENSRNOG0000045636	fatty acid synthase Source RGD Symbol Acc 620665
C03	UPFR1031298	ENSRNOT00000018577.3	Fgf1	ENSRNOG0000013867	fibroblast growth factor 1 Source RGD Symbol Acc 2605
C04	UPFR1048435	ENSRNOT00000016485.3	Fgf10	ENSRNOG0000012278	fibroblast growth factor 10 Source RGD Symbol Acc 2606
C05	UPFR1033121	ENSRNOT00000023388.5	Fgf2	ENSRNOG0000017392	fibroblast growth factor 2 Source RGD Symbol Acc 2609
C06	UPFR1045359	ENSRNOT00000010712.3	Fos	ENSRNOG0000008015	Fos proto-oncogene, AP-1 transcription factor subunit Source RGD Symbol Acc 2626
C07	UPFR1102350	ENSRNOT00000072369.1	Foxc2	ENSRNOG0000047446	forkhead box C2 Source RGD Symbol Acc 621703
C08	UPFR1085619	ENSRNOT00000017240.2	Gata2	ENSRNOG0000012347	GATA binding protein 2 Source RGD Symbol Acc 2664
C09	UPFR1027517	ENSRNOT00000026187.5	Gata3	ENSRNOG0000019336	GATA binding protein 3 Source RGD Symbol Acc 621250
C10	UPFR1076214	ENSRNOT00000002346.7	Hes1	ENSRNOG0000001720	hes family bHLH transcription factor 1 Source RGD Symbol Acc 62081
		ENSRNOT000000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFR1014864	041155.3	Insr	000029986	insulin receptor Source RGD Symbol Acc 2917
C12	UPFR1099858	ENSRNOT00000 019579.5	Irs1	ENSRNOG00 000014597	insulin receptor substrate 1 Source RGD Symbol Acc 2922
D01	UPFR1089782	ENSRNOT00000 032918.6	Irs2	ENSRNOG00 000023509	insulin receptor substrate 2 Source RGD Symbol Acc 69316
D02	UPFR1037970	ENSRNOT00000 011731.3	Jun	ENSRNOG00 000026293	Jun proto-oncogene, AP-1 transcription factor subunit Source RGD Symbol Acc 2943
D03	UPFR1090911	ENSRNOT00000 024011.5	Klf15	ENSRNOG00 000017808	Kruppel-like factor 15 Source RGD Symbol Acc 70918
D04	UPFR1119622	ENSRNOT00000 019052.2	Klf2	ENSRNOG00 000014205	Kruppel-like factor 2 Source RGD Symbol Acc 1359220
D05	UPFR1021917	ENSRNOT00000 002960.6	Klf3	ENSRNOG00 000002163	Kruppel like factor 3 Source RGD Symbol Acc 1593290
D06	UPFR1119490	ENSRNOT00000 022255.3	Klf4	ENSRNOG00 000016299	Kruppel like factor 4 Source RGD Symbol Acc 621445
D07	UPFR1089630	ENSRNOT00000 071926.1	Lep	ENSRNOG00 000045797	leptin Source RGD Symbol Acc 3000
D08	UPFR1057468	ENSRNOT00000 027910.2	Lipe	ENSRNOG00 000020546	lipase E, hormone sensitive type Source RGD Symbol Acc 3010
D09	UPFR1040557	ENSRNOT00000 026705.6	Lmna	ENSRNOG00 000019638	lamin A/C Source RGD Symbol Acc 620456
D10	UPFR1016556	ENSRNOT00000 016543.3	Lpl	ENSRNOG00 000012181	lipoprotein lipase Source RGD Symbol Acc 3017
D11	UPFR1116126	ENSRNOT00000 022213.7	Lrp5	ENSRNOG00 000015911	LDL receptor related protein 5 Source RGD Symbol Acc 1309329
D12	UPFR1036984	ENSRNOT00000 000617.8	Mapk14	ENSRNOG00 000000513	mitogen activated protein kinase 14 Source RGD Symbol Acc 70496
E01	UPFR1021972	ENSRNOT00000 011026.5	Ncoa2	ENSRNOG00 000007975	nuclear receptor coactivator 2 Source RGD Symbol Acc 620108
E02	UPFR1022324	ENSRNOT00000 081409.1	Ncor1	ENSRNOG00 000055246	nuclear receptor co-repressor 1 Source RGD Symbol Acc 3612
E03	UPFR1112706	ENSRNOT00000 001334.6	Ncor2	ENSRNOG00 000001004	nuclear receptor co-repressor 2 Source RGD Symbol Acc 1310293
E04	UPFR1041042	ENSRNOT00000 009683.2	Nr0b2	ENSRNOG00 000007229	nuclear receptor subfamily 0, group B, member 2 Source RGD Symbol Acc 621032
E05	UPFR1044343	ENSRNOT00000 018154.5	Nr1h3	ENSRNOG00 000013172	nuclear receptor subfamily 1, group H, member 3 Source RGD Symbol Acc 61909
E06	UPFR1109721	ENSRNOT00000 011851.3	Nrf1	ENSRNOG00 000008752	nuclear respiratory factor 1 Source RGD Symbol Acc 1304603
E07	UPFR1039308	ENSRNOT00000 030082.2	Ppara	ENSRNOG00 000021463	peroxisome proliferator activated receptor alpha Source RGD Symbol Acc 3369
E08	UPFR1082868	ENSRNOT00000 042539.5	Ppard	ENSRNOG00 000000503	peroxisome proliferator-activated receptor delta Source RGD Symbol Acc 3370
E09	UPFR1091351	ENSRNOT00000 051858.5	Pparg	ENSRNOG00 000008839	peroxisome proliferator-activated receptor gamma Source RGD Symbol Acc 3371
E10	UPFR1107303	ENSRNOT00000 006071.5	Ppargc1a	ENSRNOG00 000004473	PPARG coactivator 1 alpha Source RGD Symbol Acc 620925
E11	UPFR1114270	ENSRNOT00000 023661.5	Ppargc1b	ENSRNOG00 000017503	PPARG coactivator 1 beta Source RGD Symbol Acc 727948
E12	UPFR1039430	ENSRNOT00000 021752.5	Rb1	ENSRNOG00 000016029	RB transcriptional corepressor 1 Source RGD Symbol Acc 3540
F01	UPFR1112127	ENSRNOT00000 091197.1	Retn	ENSRNOG00 000001001	resistin Source RGD Symbol Acc 628781
F02	UPFR1096187	ENSRNOT00000 066191.1	Runx1t1	ENSRNOG00 000005673	RUNX1 translocation partner 1 Source RGD Symbol Acc 1305490
F03	UPFR1042024	ENSRNOT00000 012892.4	Rxra	ENSRNOG00 000009446	retinoid X receptor alpha Source RGD Symbol Acc 3610
F04	UPFR1075309	ENSRNOT00000 024128.6	Sfrp1	ENSRNOG00 000017783	secreted frizzled-related protein 1 Source RGD Symbol Acc 621074
F05	UPFR1118153	ENSRNOT00000 020182.5	Sfrp5	ENSRNOG00 000014940	secreted frizzled-related protein 5 Source RGD Symbol Acc 1310369
F06	UPFR1066763	ENSRNOT00000 008497.2	Shh	ENSRNOG00 000006120	sonic hedgehog signaling molecule Source RGD Symbol Acc 3673
F07	UPFR1112360	ENSRNOT00000 078739.1	AABR0704 4925.1	ENSRNOG00 000051592	sirtuin 1 Source NCBI gene Acc 309757
F08	UPFR1049217	ENSRNOT00000 084839.1	Sirt2	ENSRNOG00 000020102	sirtuin 2 Source RGD Symbol Acc 621481
F09	UPFR1061064	ENSRNOT00000 018861.6	Sirt3	ENSRNOG00 000013828	sirtuin 3 Source RGD Symbol Acc 1308374
F10	UPFR1026140	ENSRNOT00000 023256.5	Slc2a4	ENSRNOG00 000017226	solute carrier family 2 member 4 Source RGD Symbol Acc 2711

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFR1050158	ENSRNOT00000012739.4	Src	ENSRNOG0000009495	SRC proto-oncogene, non-receptor tyrosine kinase Source RGD Symbol Acc 620795
F12	UPFR1104408	ENSRNOT00000004753.5	Srebf1	ENSRNOG0000003463	sterol regulatory element binding transcription factor 1 Source RGD Symbol Acc 69423
G01	UPFR1042053	ENSRNOT00000026662.3	Stat5a	ENSRNOG0000019496	signal transducer and activator of transcription 5A Source RGD Symbol Acc 3773
G02	UPFR1090727	ENSRNOT00000089778.1	Taz	ENSRNOG0000053023	tafazzin Source RGD Symbol Acc 1588532
G03	UPFR1096861	ENSRNOT00000019681.6	Tcf7l2	ENSRNOG0000049232	transcription factor 7 like 2 Source RGD Symbol Acc 1583621
G04	UPFR1116390	ENSRNOT00000085118.1	Tsc22d3	ENSRNOG0000056135	TSC22 domain family, member 3 Source RGD Symbol Acc 621654
G05	UPFR1038411	ENSRNOT00000014763.6	Twist1	ENSRNOG0000011101	twist family bHLH transcription factor 1 Source RGD Symbol Acc 621455
G06	UPFR1121701	ENSRNOT00000004900.4	Ucp1	ENSRNOG0000003580	uncoupling protein 1 Source RGD Symbol Acc 3931
G07	UPFR1048607	ENSRNOT00000082429.1	Vdr	ENSRNOG0000054420	vitamin D receptor Source RGD Symbol Acc 3959
G08	UPFR1120741	ENSRNOT00000090156.1	Wnt1	ENSRNOG0000061818	Wnt family member 1 Source RGD Symbol Acc 1597195
G09	UPFR1014479	ENSRNOT00000081468.1	Wnt10b	ENSRNOG0000061238	Wnt family member 10B Source RGD Symbol Acc 1304988
G10	UPFR1043063	ENSRNOT00000064505.3	Wnt3a	ENSRNOG0000003039	Wnt family member 3A Source RGD Symbol Acc 1308057
G11	UPFR1100946	ENSRNOT00000021164.3	Wnt5a	ENSRNOG0000015618	Wnt family member 5A Source RGD Symbol Acc 69250
G12	UPFR1070692	ENSRNOT00000011044.4	Wnt5b	ENSRNOG0000008168	Wnt family member 5B Source RGD Symbol Acc 628850
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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