

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

Rat PPAR Targets

Cat. no. 249955 UPRN-149ZR

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	Acaa2	Acaadl	Acaadm	Acox1	Acox3	Acs1l	Acs13	Acs14	Acs15	Adipoq	Angptl4	Apaa1
B	Apaa5	Apoc3	Apoa	Aap7	RGD1565355	Clu	Cpt1a	Cpt1b	Cpt2	Creb1	Crebbp	Cyp27a1
C	Cyp7a1	Dgat1	Ech1	Ehhadh	Eln	AABR0705853 9.1	Etfdh	Fabp1	Fabp2	Fabp3	Fabp4	Fabp5
D	Fabp6	Fabp7	Fads2	Fgr	Gk	Hif1a	Hmgcs2	Hspd1	Ilk	Klf10	Lpin1	Lpl
E	Med1	Mlycd	Mmp9	Ncaa3	Ncaa6	Nr1h3	Olr1	Pck1	Pck2	Pdpk1	Pltp	Ppara
F	Ppard	Pparg	Ppargc1a	Ppargc1b	Pprc1	Pten	Pyy	Rora	Rarb	Rarg	Scd	AABR0704492 5.1
G	Slc22a5	Slc27a1	Slc27a2	Slc27a4	Slc27a5	Slc27a6	Smarcd3	Sorbs1	Src	Tgs1	Txnip	Ucp1
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	UPFR1053491	ENSRNOT00000085601.1	Acaa2	ENSRNOG0000013766	acetyl-CoA acyltransferase 2 Source RGD Symbol Acc 620482
A02	UPFR1080148	ENSRNOT00000017686.7	Acadl	ENSRNOG0000012966	acyl-CoA dehydrogenase, long chain Source RGD Symbol Acc 2011
A03	UPFR1090017	ENSRNOT00000013238.3	Acadm	ENSRNOG0000009845	acyl-CoA dehydrogenase medium chain Source RGD Symbol Acc 2012
A04	UPFR1092066	ENSRNOT00000046754.5	Acox1	ENSRNOG0000008755	acyl-CoA oxidase 1 Source RGD Symbol Acc 619757
A05	UPFR1066235	ENSRNOT00000049798.3	Acox3	ENSRNOG0000008474	acyl-CoA oxidase 3, pristanoyl Source RGD Symbol Acc 69245
A06	UPFR1104275	ENSRNOT00000089501.1	Acs1	ENSRNOG0000010633	acyl-CoA synthetase long-chain family member 1 Source RGD Symbol Acc 2015
A07	UPFR1023034	ENSRNOT00000020161.2	Acs13	ENSRNOG0000014718	acyl-CoA synthetase long-chain family member 3 Source RGD Symbol Acc 70552
A08	UPFR1082627	ENSRNOT00000026057.6	Acs14	ENSRNOG0000019180	acyl-CoA synthetase long-chain family member 4 Source RGD Symbol Acc 69401
A09	UPFR1034409	ENSRNOT00000022126.6	Acs15	ENSRNOG0000016265	acyl-CoA synthetase long-chain family member 5 Source RGD Symbol Acc 69402
A10	UPFR1094195	ENSRNOT00000089988.1	Adipoq	ENSRNOG0000001821	adiponectin, C1Q and collagen domain containing Source RGD Symbol Acc 628748
A11	UPFR1032714	ENSRNOT00000010031.6	Angptl4	ENSRNOG0000007545	angiotensin-like 4 Source RGD Symbol Acc 735058
A12	UPFR1066328	ENSRNOT00000074357.2	Apoa1	ENSRNOG0000045679	apolipoprotein A1 Source RGD Symbol Acc 2130
B01	UPFR1044046	ENSRNOT00000024918.5	Apoa5	ENSRNOG0000018436	apolipoprotein A5 Source RGD Symbol Acc 70903
B02	UPFR1031429	ENSRNOT00000074942.2	Apoc3	ENSRNOG0000047503	apolipoprotein C3 Source RGD Symbol Acc 2136
B03	UPFR1073431	ENSRNOT00000091574.1	ApoE	ENSRNOG0000018454	apolipoprotein E Source RGD Symbol Acc 2138
B04	UPFR1014596	ENSRNOT00000012975.2	Aqp7	ENSRNOG0000009686	aquaporin 7 Source RGD Symbol Acc 2145
B05	UPFR1013797	ENSRNOT00000008319.8	RGD1565355	ENSRNOG0000040108	similar to fatty acid translocase/CD36 Source RGD Symbol Acc 1565355
B06	UPFR1050205	ENSRNOT00000091612.1	Clu	ENSRNOG0000016460	clusterin Source RGD Symbol Acc 3907
B07	UPFR1101909	ENSRNOT00000019652.3	Cpt1a	ENSRNOG0000014254	carnitine palmitoyltransferase 1A Source RGD Symbol Acc 2396
B08	UPFR1021462	ENSRNOT00000013985.3	Cpt1b	ENSRNOG0000010438	carnitine palmitoyltransferase 1B Source RGD Symbol Acc 2397
B09	UPFR1106957	ENSRNOT00000016954.3	Cpt2	ENSRNOG0000012443	carnitine palmitoyltransferase 2 Source RGD Symbol Acc 2398
B10	UPFR1042088	ENSRNOT00000018326.5	Creb1	ENSRNOG0000013412	cAMP responsive element binding protein 1 Source RGD Symbol Acc 620218
B11	UPFR1058705	ENSRNOT00000007079.5	Crebbp	ENSRNOG0000005330	CREB binding protein Source RGD Symbol Acc 2401
B12	UPFR1033054	ENSRNOT00000023152.5	Cyp27a1	ENSRNOG0000017188	cytochrome P450, family 27, subfamily a, polypeptide 1 Source RGD Symbol Acc 727915
C01	UPFR1121855	ENSRNOT00000012819.4	Cyp7a1	ENSRNOG0000009488	cytochrome P450 family 7 subfamily A member 1 Source RGD Symbol Acc 2482
C02	UPFR1067168	ENSRNOT00000039795.3	Dgat1	ENSRNOG0000028711	diacylglycerol O-acyltransferase 1 Source RGD Symbol Acc 628673
C03	UPFR1053449	ENSRNOT00000027537.6	Ech1	ENSRNOG0000020308	enoyl-CoA hydratase 1 Source RGD Symbol Acc 69353
C04	UPFR1042056	ENSRNOT00000002410.4	Ehhadh	ENSRNOG0000001770	enoyl-CoA hydratase and 3-hydroxyacyl CoA dehydrogenase Source RGD Symbol Acc 621441
C05	UPFR1061445	ENSRNOT00000032780.7	ElN	ENSRNOG0000001469	elastin Source RGD Symbol Acc 67394
C06	UPFR1102114	ENSRNOT00000000206.7	AABR07058539.1	ENSRNOG0000000190	
C07	UPFR1060404	ENSRNOT00000013262.6	Etfdh	ENSRNOG0000009538	electron transfer flavoprotein dehydrogenase Source RGD Symbol Acc 735052
C08	UPFR1068726	ENSRNOT00000008840.5	Fabp1	ENSRNOG0000006675	fatty acid binding protein 1 Source RGD Symbol Acc 2590
C09	UPFR1059794	ENSRNOT00000029871.3	Fabp2	ENSRNOG0000024947	fatty acid binding protein 2 Source RGD Symbol Acc 2591
C10	UPFR1083061	ENSRNOT00000017325.5	Fabp3	ENSRNOG0000012879	fatty acid binding protein 3 Source RGD Symbol Acc 69048
		ENSRNOT000000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFR1043524	014701.7	Fabp4	000010805	fatty acid binding protein 4 Source RGD Symbol Acc 69309
C12	UPFR1101216	ENSRNOT00000075493.2	Fabp5	ENSRNOG0000049075	fatty acid binding protein 5 Source RGD Symbol Acc 70997
D01	UPFR1083830	ENSRNOT00000083910.1	Fabp6	ENSRNOG0000003902	fatty acid binding protein 6 Source RGD Symbol Acc 2592
D02	UPFR1075327	ENSRNOT00000001079.5	Fabp7	ENSRNOG0000000814	fatty acid binding protein 7 Source RGD Symbol Acc 69312
D03	UPFR1050643	ENSRNOT00000027756.6	Fads2	ENSRNOG0000020440	fatty acid desaturase 2 Source RGD Symbol Acc 68339
D04	UPFR1074982	ENSRNOT00000085674.1	Fgr	ENSRNOG0000009912	FGR proto-oncogene, Src family tyrosine kinase Source RGD Symbol Acc 621319
D05	UPFR1054947	ENSRNOT00000064340.3	Gk	ENSRNOG0000034116	glycerol kinase Source RGD Symbol Acc 70893
D06	UPFR1061095	ENSRNOT00000049725.3	Hif1a	ENSRNOG0000008292	hypoxia inducible factor 1 subunit alpha Source RGD Symbol Acc 61928
D07	UPFR1099961	ENSRNOT00000026121.7	Hmgcs2	ENSRNOG0000019120	3-hydroxy-3-methylglutaryl-CoA synthase 2 Source RGD Symbol Acc 2804
D08	UPFR1095647	ENSRNOT00000066589.2	Hspd1	ENSRNOG0000014525	heat shock protein family D member 1 Source RGD Symbol Acc 621314
D09	UPFR1118308	ENSRNOT00000025906.4	Ilk	ENSRNOG0000018993	integrin-linked kinase Source RGD Symbol Acc 620063
D10	UPFR1058184	ENSRNOT00000008350.3	Klf10	ENSRNOG0000006118	Kruppel-like factor 10 Source RGD Symbol Acc 621652
D11	UPFR1052616	ENSRNOT00000084155.1	Lpin1	ENSRNOG0000004377	lipin 1 Source RGD Symbol Acc 1307646
D12	UPFR1016556	ENSRNOT00000016543.3	Lpl	ENSRNOG0000012181	lipoprotein lipase Source RGD Symbol Acc 3017
E01	UPFR1049249	ENSRNOT00000067901.1	Med1	ENSRNOG0000005606	mediator complex subunit 1 Source RGD Symbol Acc 1559552
E02	UPFR1058121	ENSRNOT00000019923.5	Mlycd	ENSRNOG0000014522	malonyl-CoA decarboxylase Source RGD Symbol Acc 620234
E03	UPFR1032957	ENSRNOT00000023965.3	Mmp9	ENSRNOG0000017539	matrix metalloproteinase 9 Source RGD Symbol Acc 621320
E04	UPFR1072465	ENSRNOT00000007768.7	Ncoa3	ENSRNOG0000005616	nuclear receptor coactivator 3 Source RGD Symbol Acc 620109
E05	UPFR1103463	ENSRNOT00000024714.7	Ncoa6	ENSRNOG0000018288	nuclear receptor coactivator 6 Source RGD Symbol Acc 620111
E06	UPFR1044343	ENSRNOT00000018154.5	Nr1h3	ENSRNOG0000013172	nuclear receptor subfamily 1, group H, member 3 Source RGD Symbol Acc 61909
E07	UPFR1028876	ENSRNOT00000086390.1	Olr1	ENSRNOG0000056219	oxidized low density lipoprotein receptor 1 Source RGD Symbol Acc 620515
E08	UPFR1076964	ENSRNOT00000031586.6	Pck1	ENSRNOG0000028616	phosphoenolpyruvate carboxykinase 1 Source RGD Symbol Acc 3267
E09	UPFR1076561	ENSRNOT00000025260.7	Pck2	ENSRNOG0000018536	phosphoenolpyruvate carboxykinase 2 (mitochondrial) Source MGI Symbol Acc MGI 1860456
E10	UPFR1093188	ENSRNOT00000067660.1	Pdk1	ENSRNOG0000006136	3-phosphoinositide dependent protein kinase-1 Source RGD Symbol Acc 620307
E11	UPFR1081098	ENSRNOT00000022594.6	Pltp	ENSRNOG0000016488	phospholipid transfer protein Source RGD Symbol Acc 1306695
E12	UPFR1039308	ENSRNOT00000030082.2	Ppara	ENSRNOG0000021463	peroxisome proliferator activated receptor alpha Source RGD Symbol Acc 3369
F01	UPFR1082868	ENSRNOT00000042539.5	Ppard	ENSRNOG0000000503	peroxisome proliferator-activated receptor delta Source RGD Symbol Acc 3370
F02	UPFR1091351	ENSRNOT00000051858.5	Pparg	ENSRNOG0000008839	peroxisome proliferator-activated receptor gamma Source RGD Symbol Acc 3371
F03	UPFR1107303	ENSRNOT00000006071.5	Ppargc1a	ENSRNOG0000004473	PPARG coactivator 1 alpha Source RGD Symbol Acc 620925
F04	UPFR1114270	ENSRNOT00000023661.5	Ppargc1b	ENSRNOG0000017503	PPARG coactivator 1 beta Source RGD Symbol Acc 727948
F05	UPFR1037570	ENSRNOT00000025221.7	Pprc1	ENSRNOG0000018561	peroxisome proliferator-activated receptor gamma, coactivator-related 1 Source RGD Symbol Acc 1309688
F06	UPFR1043890	ENSRNOT00000028143.3	Pten	ENSRNOG0000020723	phosphatase and tensin homolog Source RGD Symbol Acc 61995
F07	UPFR1016759	ENSRNOT00000028323.6	Pyy	ENSRNOG0000020877	peptide YY (mapped) Source RGD Symbol Acc 1593289
F08	UPFR1042024	ENSRNOT00000012892.4	Rxra	ENSRNOG0000009446	retinoid X receptor alpha Source RGD Symbol Acc 3610
F09	UPFR1021028	ENSRNOT00000041613.5	Rxrb	ENSRNOG0000000464	retinoid X receptor beta Source RGD Symbol Acc 3611
F10	UPFR1081605	ENSRNOT00000077227.1	Rxrg	ENSRNOG0000004537	retinoid X receptor gamma Source RGD Symbol Acc 620046

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFR1069413	ENSRNOT00000018447.5	Scd	ENSRNOG00000013552	stearoyl-CoA desaturase Source RGD Symbol Acc 621176
F12	UPFR1112360	ENSRNOT00000078739.1	AABR07044925.1	ENSRNOG00000051592	sirtuin 1 Source NCBI gene Acc 309757
G01	UPFR1087896	ENSRNOT00000081898.1	Slc22a5	ENSRNOG00000008432	solute carrier family 22 member 5 Source RGD Symbol Acc 3702
G02	UPFR1014919	ENSRNOT00000024659.4	Slc27a1	ENSRNOG00000018170	solute carrier family 27 member 1 Source RGD Symbol Acc 620927
G03	UPFR1017946	ENSRNOT00000067700.3	Slc27a2	ENSRNOG00000010128	solute carrier family 27 member 2 Source RGD Symbol Acc 71103
G04	UPFR1026149	ENSRNOT00000019500.6	Slc27a4	ENSRNOG00000014369	solute carrier family 27 member 4 Source RGD Symbol Acc 1307383
G05	UPFR1095460	ENSRNOT00000026575.4	Slc27a5	ENSRNOG00000019626	solute carrier family 27 member 5 Source RGD Symbol Acc 708535
G06	UPFR1020985	ENSRNOT00000077443.1	Slc27a6	ENSRNOG00000058193	solute carrier family 27 member 6 Source RGD Symbol Acc 1311977
G07	UPFR1100858	ENSRNOT00000066598.2	Smardc3	ENSRNOG00000010077	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 3 Source RGD Symbol Acc 1311869
G08	UPFR1049169	ENSRNOT00000021114.8	Sorbs1	ENSRNOG00000015658	sorbin and SH3 domain containing 1 Source RGD Symbol Acc 1586598
G09	UPFR1050158	ENSRNOT00000012739.4	Src	ENSRNOG00000009495	SRC proto-oncogene, non-receptor tyrosine kinase Source RGD Symbol Acc 620795
G10	UPFR1085267	ENSRNOT00000010783.5	Tgs1	ENSRNOG00000008156	trimethylguanosine synthase 1 Source RGD Symbol Acc 1309953
G11	UPFR1099909	ENSRNOT00000028793.6	Txnip	ENSRNOG00000021201	thioredoxin interacting protein Source RGD Symbol Acc 620886
G12	UPFR1121701	ENSRNOT00000004900.4	Ucp1	ENSRNOG00000003580	uncoupling protein 1 Source RGD Symbol Acc 3931
H01	UPFR1132952	ENSRNOT00000080216.1	Actb	ENSRNOG00000034254	actin, beta Source RGD Symbol Acc 628837
H02	UPFR1132953	ENSRNOT00000023017.5	B2m	ENSRNOG00000017123	beta-2 microglobulin Source RGD Symbol Acc 2189
H03	UPFR1132959	ENSRNOT00000065935.3	Hprt1	ENSRNOG00000048561	hypoxanthine phosphoribosyltransferase 1 Source RGD Symbol Acc 2826
H04	UPFR1018740	ENSRNOT00000017468.2	Ldha	ENSRNOG00000013009	lactate dehydrogenase A Source RGD Symbol Acc 2996
H05	UPFR1132958	ENSRNOT00000018820.5	Rplp1	ENSRNOG00000013874	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.

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit handbook or user manual. QIAGEN kit handbooks and user manuals are available at www.qiagen.com or can be requested from QIAGEN Technical Services or your local distributor.

Trademarks: QIAGEN®, LNA®, QuantiNova®, Sample to Insight® (QIAGEN Group); SYBR® (Life Technologies Corp.). Registered names, trademarks, etc. used in this document, even when not specifically marked as such, are not to be considered unprotected by law.

09/2019 © 2019 QIAGEN, all rights reserved.