

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

Human PPAR Targets

Cat. no. 249955 UPHS-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	ACADL	ACADM	ACOX1	ACOX3	ACSL1	ACSL3	ACSL4	ACSL5	ADIPOQ	ANGPTL4	APOA1
B	APOA5	APOC3	APOE	CD36	CHD9	CLU	CPT1A	CPT1B	CPT2	CREB1	CREBBP	CYP27A1
C	CYP4A11	CYP7A1	DGAT1	ECH1	EHHADH	ELN	EP300	ETFDH	FABP1	FABP2	FABP3	FABP4
D	FABP5	FABP6	FABP7	FADS2	FGR	GK	HIF1A	HMGCS2	ILK	KLF10	LPIN1	LPL
E	MED1	MLYCD	MMP9	NCOA3	NCOA6	NR1H3	OLR1	PCK1	PCK2	PDPK1	PLTP	PPARA
F	PPARD	PPARG	PPARGC1A	PPARGC1B	PPRC1	HELZ2	PTEN	RXRA	RXRB	RXRG	SCD	SIRT1
G	SLC22A5	SLC27A1	SLC27A2	SLC27A4	SLC27A5	SLC27A6	SMARCD3	SORBS1	SRC	TGS1	TXNIP	UCP1
H	ACTB	B2M	GAPDH	HPRT1	RPLP0	HGDC	QIC	QIC	QIC	PPC	PPC	PPC

Gene table: QuantiNova LNA Probe PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	UPFH0567027	ENST00000587994.5	ACAA2	ENSG00000167315	acetyl-CoA acyltransferase 2 Source HGNC Symbol Acc HGNC 83
A02	UPFH0539614	ENST00000482502.1	ACADL	ENSG00000115361	acyl-CoA dehydrogenase long chain Source HGNC Symbol Acc HGNC 88
A03	UPFH0171314	ENST00000525808.5	ACADM	ENSG00000117054	acyl-CoA dehydrogenase medium chain Source HGNC Symbol Acc HGNC 89
A04	UPFH0241138	ENST00000573078.5	ACOX1	ENSG00000161533	acyl-CoA oxidase 1 Source HGNC Symbol Acc HGNC 119
A05	UPFH0415465	ENST00000356406.10	ACOX3	ENSG00000087008	acyl-CoA oxidase 3, pristanoyl Source HGNC Symbol Acc HGNC 121
A06	UPFH0223681	ENST00000515030.5	ACSL1	ENSG00000151726	acyl-CoA synthetase long chain family member 1 Source HGNC Symbol Acc HGNC 3569
A07	UPFH1132212	ENST00000357430.8	ACSL3	ENSG00000123983	acyl-CoA synthetase long chain family member 3 Source HGNC Symbol Acc HGNC 3570
A08	UPFH1132213	ENST00000348502.10	ACSL4	ENSG00000068366	acyl-CoA synthetase long chain family member 4 Source HGNC Symbol Acc HGNC 3571
A09	UPFH1132214	ENST00000433418.5	ACSL5	ENSG00000197142	acyl-CoA synthetase long chain family member 5 Source HGNC Symbol Acc HGNC 16526
A10	UPFH1132772	ENST00000320741.7	ADIPOQ	ENSG00000181092	adiponectin, C1Q and collagen domain containing Source HGNC Symbol Acc HGNC 13633
A11	UPFH1132232	ENST00000301455.7	ANGPTL4	ENSG00000167772	angiopoietin like 4 Source HGNC Symbol Acc HGNC 16039
A12	UPFH0042718	ENST00000375329.6	APOA1	ENSG00000118137	apolipoprotein A1 Source HGNC Symbol Acc HGNC 600
B01	UPFH0225062	ENST00000433069.1	APOA5	ENSG00000110243	apolipoprotein A5 Source HGNC Symbol Acc HGNC 17288
B02	UPFH0066022	ENST00000375345.3	APOC3	ENSG00000110245	apolipoprotein C3 Source HGNC Symbol Acc HGNC 610
B03	UPFH0539669	ENST00000425718.1	APOE	ENSG00000130203	apolipoprotein E Source HGNC Symbol Acc HGNC 613
B04	UPFH1125151	ENST00000433696.6	CD36	ENSG00000135218	CD36 molecule Source HGNC Symbol Acc HGNC 1663
B05	UPFH0321931	ENST00000615216.4	CHD9	ENSG00000177200	chromodomain helicase DNA binding protein 9 Source HGNC Symbol Acc HGNC 25701
B06	UPFH0432344	ENST00000519472.5	CLU	ENSG00000120885	clusterin Source HGNC Symbol Acc HGNC 2095
B07	UPFH0043897	ENST00000540367.5	CPT1A	ENSG00000110090	carnitine palmitoyltransferase 1A Source HGNC Symbol Acc HGNC 2328
B08	UPFH0183411	ENST00000395650.6	CPT1B	ENSG00000205560	carnitine palmitoyltransferase 1B Source HGNC Symbol Acc HGNC 2329
B09	UPFH1132334	ENST00000636891.1	CPT2	ENSG00000157184	carnitine palmitoyltransferase 2 Source HGNC Symbol Acc HGNC 2330
B10	UPFH0199960	ENST00000480189.5	CREB1	ENSG00000118260	cAMP responsive element binding protein 1 Source HGNC Symbol Acc HGNC 2345
B11	UPFH0338543	ENST00000573517.6	CREBBP	ENSG00000005339	CREB binding protein Source HGNC Symbol Acc HGNC 2348
B12	UPFH0614946	ENST00000466602.1	CYP27A1	ENSG00000135929	cytochrome P450 family 27 subfamily A member 1 Source HGNC Symbol Acc HGNC 2605
C01	UPFH0132000	ENST00000475477.5	CYP4A11	ENSG00000187048	cytochrome P450 family 4 subfamily A member 11 Source HGNC Symbol Acc HGNC 2642
C02	UPFH0370331	ENST00000301645.4	CYP7A1	ENSG00000167910	cytochrome P450 family 7 subfamily A member 1 Source HGNC Symbol Acc HGNC 2651
C03	UPFH0146320	ENST00000531896.5	DGAT1	ENSG00000185000	diacylglycerol O-acyltransferase 1 Source HGNC Symbol Acc HGNC 2843
C04	UPFH0540486	ENST00000601778.5	ECH1	ENSG00000104823	enoyl-CoA hydratase 1 Source HGNC Symbol Acc HGNC 3149
C05	UPFH0433081	ENST00000231887.8	EHHADH	ENSG00000113790	enoyl-CoA hydratase and 3-hydroxyacyl CoA dehydrogenase Source HGNC Symbol Acc HGNC 3247
C06	UPFH1172924	ENST00000380553.8	ELN	ENSG00000049540	elastin Source HGNC Symbol Acc HGNC 3327
C07	UPFH0118049	ENST00000635691.1	EP300	ENSG00000100393	E1A binding protein p300 Source HGNC Symbol Acc HGNC 3373
C08	UPFH0345660	ENST00000307738.5	ETFDH	ENSG00000171503	electron transfer flavoprotein dehydrogenase Source HGNC Symbol Acc HGNC 3483
C09	UPFH0465765	ENST00000295834.7	FABP1	ENSG00000163586	fatty acid binding protein 1 Source HGNC Symbol Acc HGNC 3555
C10	UPFH0366949	ENST00000274024.3	FABP2	ENSG00000145384	fatty acid binding protein 2 Source HGNC Symbol Acc HGNC 3556
		ENST00000373		ENSG000000	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFH0313060	713.6	FABP3	121769	fatty acid binding protein 3 Source HGNC Symbol Acc HGNC 3557
C12	UPFH0038464	ENST00000256104.4	FABP4	ENSG00000170323	fatty acid binding protein 4 Source HGNC Symbol Acc HGNC 3559
D01	UPFH0238291	ENST000000396359.1	FABP5	ENSG00000164687	fatty acid binding protein 5 Source HGNC Symbol Acc HGNC 3560
D02	UPFH0580888	ENST000000523955.5	FABP6	ENSG00000170231	fatty acid binding protein 6 Source HGNC Symbol Acc HGNC 3561
D03	UPFH0217723	ENST000000368444.8	FABP7	ENSG00000164434	fatty acid binding protein 7 Source HGNC Symbol Acc HGNC 3562
D04	UPFH0159942	ENST000000257261.10	FADS2	ENSG00000134824	fatty acid desaturase 2 Source HGNC Symbol Acc HGNC 3575
D05	UPFH0429256	ENST000000399173.5	FGR	ENSG00000000938	FGR proto-oncogene, Src family tyrosine kinase Source HGNC Symbol Acc HGNC 3697
D06	UPFH0598917	ENST000000479048.5	GK	ENSG00000198814	glycerol kinase Source HGNC Symbol Acc HGNC 4289
D07	UPFH1132447	ENST000000394997.5	HIF1A	ENSG00000100644	hypoxia inducible factor 1 subunit alpha Source HGNC Symbol Acc HGNC 4910
D08	UPFH0279568	ENST000000472375.5	HMGCS2	ENSG00000134240	3-hydroxy-3-methylglutaryl-CoA synthase 2 Source HGNC Symbol Acc HGNC 5008
D09	UPFH0412404	ENST000000299421.8	ILK	ENSG00000166333	integrin linked kinase Source HGNC Symbol Acc HGNC 6040
D10	UPFH0526732	ENST000000395884.3	KLF10	ENSG00000155090	Kruppel like factor 10 Source HGNC Symbol Acc HGNC 11810
D11	UPFH0353787	ENST000000396099.5	LPIN1	ENSG00000134324	lipin 1 Source HGNC Symbol Acc HGNC 13345
D12	UPFH1132523	ENST000000311322.10	LPL	ENSG00000175445	lipoprotein lipase Source HGNC Symbol Acc HGNC 6677
E01	UPFH0158491	ENST000000394287.7	MED1	ENSG00000125686	mediator complex subunit 1 Source HGNC Symbol Acc HGNC 9234
E02	UPFH0608015	ENST000000262430.6	MLYCD	ENSG00000103150	malonyl-CoA decarboxylase Source HGNC Symbol Acc HGNC 7150
E03	UPFH0367626	ENST000000372330.3	MMP9	ENSG00000100985	matrix metalloproteinase 9 Source HGNC Symbol Acc HGNC 7176
E04	UPFH1132566	ENST000000372004.7	NCOA3	ENSG00000124151	nuclear receptor coactivator 3 Source HGNC Symbol Acc HGNC 7670
E05	UPFH1132567	ENST000000359003.7	NCOA6	ENSG00000198646	nuclear receptor coactivator 6 Source HGNC Symbol Acc HGNC 15936
E06	UPFH0556560	ENST000000616973.4	NR1H3	ENSG00000025434	nuclear receptor subfamily 1 group H member 3 Source HGNC Symbol Acc HGNC 7966
E07	UPFH1132602	ENST000000539518.5	OLR1	ENSG00000173391	oxidized low density lipoprotein receptor 1 Source HGNC Symbol Acc HGNC 8133
E08	UPFH1132606	ENST000000319441.6	PCK1	ENSG00000124253	phosphoenolpyruvate carboxykinase 1 Source HGNC Symbol Acc HGNC 8724
E09	UPFH0165951	ENST000000216780.8	PCK2	ENSG00000100889	phosphoenolpyruvate carboxykinase 2, mitochondrial Source HGNC Symbol Acc HGNC 8725
E10	UPFH0104991	ENST000000389224.7	PDPK1	ENSG00000140992	3-phosphoinositide dependent protein kinase 1 Source HGNC Symbol Acc HGNC 8816
E11	UPFH0344913	ENST000000354050.8	PLTP	ENSG00000100979	phospholipid transfer protein Source HGNC Symbol Acc HGNC 9093
E12	UPFH0327373	ENST000000262735.9	PPARA	ENSG00000186951	peroxisome proliferator activated receptor alpha Source HGNC Symbol Acc HGNC 9232
F01	UPFH1132629	ENST000000448077.6	PPARD	ENSG00000112033	peroxisome proliferator activated receptor delta Source HGNC Symbol Acc HGNC 9235
F02	UPFH0284890	ENST000000477039.5	PPARG	ENSG00000132170	peroxisome proliferator activated receptor gamma Source HGNC Symbol Acc HGNC 9236
F03	UPFH0403608	ENST000000264867.7	PPARGC1A	ENSG00000109819	PPARG coactivator 1 alpha Source HGNC Symbol Acc HGNC 9237
F04	UPFH0004689	ENST000000394320.7	PPARGC1B	ENSG00000155846	PPARG coactivator 1 beta Source HGNC Symbol Acc HGNC 30022
F05	UPFH0061489	ENST000000489648.5	PPRC1	ENSG00000148840	peroxisome proliferator-activated receptor gamma, coactivator-related 1 Source HGNC Symbol Acc HGNC 30025
F06	UPFH0529491	ENST000000478861.1	HELZ2	ENSG00000130589	helicase with zinc finger 2 Source HGNC Symbol Acc HGNC 30021
F07	UPFH1132982	ENST000000371953.8	PTEN	ENSG00000171862	phosphatase and tensin homolog Source HGNC Symbol Acc HGNC 9588
F08	UPFH0039313	ENST000000356384.4	RXRA	ENSG00000186350	retinoid X receptor alpha Source HGNC Symbol Acc HGNC 10477
F09	UPFH0039623	ENST000000483821.1	RXRB	ENSG00000204231	retinoid X receptor beta Source HGNC Symbol Acc HGNC 10478
F10	UPFH0454325	ENST000000470566.1	RXRG	ENSG00000143171	retinoid X receptor gamma Source HGNC Symbol Acc HGNC 10479

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFH0108490	ENST00000370355.3	SCD	ENSG00000099194	stearoyl-CoA desaturase Source HGNC Symbol Acc HGNC 10571
F12	UPFH0388476	ENST00000212015.11	SIRT1	ENSG00000096717	sirtuin 1 Source HGNC Symbol Acc HGNC 14929
G01	UPFH0190204	ENST00000447841.5	SLC22A5	ENSG00000197375	solute carrier family 22 member 5 Source HGNC Symbol Acc HGNC 10969
G02	UPFH0338325	ENST00000600277.5	SLC27A1	ENSG00000130304	solute carrier family 27 member 1 Source HGNC Symbol Acc HGNC 10995
G03	UPFH0111755	ENST00000380902.8	SLC27A2	ENSG00000140284	solute carrier family 27 member 2 Source HGNC Symbol Acc HGNC 10996
G04	UPFH1132683	ENST00000300456.5	SLC27A4	ENSG00000167114	solute carrier family 27 member 4 Source HGNC Symbol Acc HGNC 10998
G05	UPFH0570082	ENST00000263093.7	SLC27A5	ENSG00000083807	solute carrier family 27 member 5 Source HGNC Symbol Acc HGNC 10999
G06	UPFH0393879	ENST00000262462.9	SLC27A6	ENSG00000113396	solute carrier family 27 member 6 Source HGNC Symbol Acc HGNC 11000
G07	UPFH0296398	ENST00000485592.5	SMARCD3	ENSG00000082014	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 3 Source HGNC Symbol Acc HGNC 11108
G08	UPFH1132693	ENST00000371241.5	SORBS1	ENSG00000095637	sorbin and SH3 domain containing 1 Source HGNC Symbol Acc HGNC 14565
G09	UPFH0308412	ENST00000472968.1	SRC	ENSG00000197122	SRC proto-oncogene, non-receptor tyrosine kinase Source HGNC Symbol Acc HGNC 11283
G10	UPFH0537726	ENST00000519494.1	TGS1	ENSG00000137574	trimethylguanosine synthase 1 Source HGNC Symbol Acc HGNC 17843
G11	UPFH0343233	ENST00000582401.5	TXNIP	ENSG00000265972	thioredoxin interacting protein Source HGNC Symbol Acc HGNC 16952
G12	UPFH0141236	ENST00000262999.4	UCP1	ENSG00000109424	uncoupling protein 1 Source HGNC Symbol Acc HGNC 12517
H01	UPFH1132936	ENST00000646664.1	ACTB	ENSG00000075624	actin beta Source HGNC Symbol Acc HGNC 132
H02	UPFH1132937	ENST00000544417.5	B2M	ENSG00000166710	beta-2-microglobulin Source HGNC Symbol Acc HGNC 914
H03	UPFH1132938	ENST00000229239.10	GAPDH	ENSG00000111640	glyceraldehyde-3-phosphate dehydrogenase Source HGNC Symbol Acc HGNC 4141
H04	UPFH1132939	ENST00000298556.8	HPRT1	ENSG00000165704	hypoxanthine phosphoribosyltransferase 1 Source HGNC Symbol Acc HGNC 5157
H05	UPFH1132941	ENST00000392514.9	RPLP0	ENSG00000089157	ribosomal protein lateral stalk subunit P0 Source HGNC Symbol Acc HGNC 10371
H06	UPFH1126608	UPL_HGDC	HGDC	UPL_HGDC	Human 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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