

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

Mouse PPAR Targets

Cat. no. 249955 UPMM-149ZA

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	Acaa2	Acadl	Acadm	Acox1	Acox3	Acs1	Acs3	Acs4	Acs5	Adipoq	Angptl4	Apoa1
B	Apoa5	Apoc3	Apoe	Helz2	Cd36	Chd9	Clu	Cpt1a	Cpt1b	Cptf2	Creb1	Crebbp
C	Cyp27a1	Cyp4a10	Cyp7a1	Dgat1	Ech1	Ehhadh	Eln	Ep300	Elf1h	Fabp1	Fabp2	Fabp3
D	Fabp4	Fabp5	Fabp6	Fabp7	Fads2	Fgr	Gk	Hif1a	Hmgcs2	Hspd1	Ilk	Klf10
E	Lpl	Med1	Mlycd	Mmp9	Ncoa3	Ncoa6	Nr1h3	Olr1	Pck1	Pck2	Pdpc1	Ptbp
F	Ppara	Ppard	Pparg	Ppargc1a	Ppargc1b	Pprc1	Pten	Rara	Rarb	Rarg	Scd1	Sirt1
G	Slc22a5	Slc27a1	Slc27a2	Slc27a4	Slc27a5	Slc27a6	Smarcd3	Sorbs1	Src	Tgsl	Txnip	Ucp1
H	Actb	B2m	Gapdh	Gusb	Hsp90ab1	MGDC	QIC	QIC	QIC	PPC	PPC	PPC

Gene table: QuantiNova LNA Probe PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	UPFM081199 2	ENSMUST00000041053.10	Acaa2	ENSMUSG0000036880	acetyl-Coenzyme A acyltransferase 2 (mitochondrial 3-oxoacyl-Coenzyme A thiolase) Source MGI Symbol Acc MGI 1098623
A02	UPFM092091 0	ENSMUST00000139208.1	Acadl	ENSMUSG0000026003	acyl-Coenzyme A dehydrogenase, long-chain Source MGI Symbol Acc MGI 87866
A03	UPFM070833 0	ENSMUST00000199342.1	Acadm	ENSMUSG0000062908	acyl-Coenzyme A dehydrogenase, medium chain Source MGI Symbol Acc MGI 87867
A04	UPFM092748 8	ENSMUST00000066587.11	Acox1	ENSMUSG0000020777	acyl-Coenzyme A oxidase 1, palmitoyl Source MGI Symbol Acc MGI 1330812
A05	UPFM094395 0	ENSMUST00000154796.1	Acox3	ENSMUSG0000029098	acyl-Coenzyme A oxidase 3, pristanoyl Source MGI Symbol Acc MGI 1933156
A06	UPFM092757 2	ENSMUST00000152423.1	Acs1	ENSMUSG0000018796	acyl-CoA synthetase long-chain family member 1 Source MGI Symbol Acc MGI 102797
A07	UPFM069978 7	ENSMUST00000134566.7	Acs13	ENSMUSG0000032883	acyl-CoA synthetase long-chain family member 3 Source MGI Symbol Acc MGI 1921455
A08	UPFM092898 6	ENSMUST00000112904.7	Acs14	ENSMUSG0000031278	acyl-CoA synthetase long-chain family member 4 Source MGI Symbol Acc MGI 1354713
A09	UPFM081585 1	ENSMUST00000224414.1	Acs15	ENSMUSG0000024981	acyl-CoA synthetase long-chain family member 5 Source MGI Symbol Acc MGI 1919129
A10	UPFM096756 9	ENSMUST00000023593.5	Adipoq	ENSMUSG0000022878	adiponectin, C1Q and collagen domain containing Source MGI Symbol Acc MGI 106675
A11	UPFM095383 3	ENSMUST00000174872.1	Angptl4	ENSMUSG0000002289	angiotensin-like 4 Source MGI Symbol Acc MGI 1888999
A12	UPFM082788 5	ENSMUST00000034588.8	Apoa1	ENSMUSG0000032083	apolipoprotein A-I Source MGI Symbol Acc MGI 88049
B01	UPFM100171 9	ENSMUST00000121598.7	Apoa5	ENSMUSG0000032079	apolipoprotein A-V Source MGI Symbol Acc MGI 1913363
B02	UPFM096268 3	ENSMUST00000118649.7	Apoc3	ENSMUSG0000032081	apolipoprotein C-III Source MGI Symbol Acc MGI 88055
B03	UPFM092642 1	ENSMUST00000172808.1	ApoE	ENSMUSG0000002985	apolipoprotein E Source MGI Symbol Acc MGI 88057
B04	UPFM099973 8	ENSMUST00000094203.10	Helz2	ENSMUSG0000027580	helicase with zinc finger 2, transcriptional coactivator Source MGI Symbol Acc MGI 2385169
B05	UPFM083550 8	ENSMUST00000170051.7	Cd36	ENSMUSG0000002944	CD36 molecule Source MGI Symbol Acc MGI 107899
B06	UPFM089335 0	ENSMUST00000210947.1	Chd9	ENSMUSG0000056608	chromodomain helicase DNA binding protein 9 Source MGI Symbol Acc MGI 1924001
B07	UPFM093808 7	ENSMUST00000153460.7	Clu	ENSMUSG0000022037	clusterin Source MGI Symbol Acc MGI 88423
B08	UPFM066697 5	ENSMUST00000238027.1	Cpt1a	ENSMUSG0000024900	carnitine palmitoyltransferase 1a, liver Source MGI Symbol Acc MGI 1098296
B09	UPFM095459 9	ENSMUST00000109313.8	Cpt1b	ENSMUSG0000078937	carnitine palmitoyltransferase 1b, muscle Source MGI Symbol Acc MGI 1098297
B10	UPFM091584 0	ENSMUST00000106720.8	Cpt2	ENSMUSG0000028607	carnitine palmitoyltransferase 2 Source MGI Symbol Acc MGI 109176
B11	UPFM085293 8	ENSMUST00000087366.10	Creb1	ENSMUSG0000025958	cAMP responsive element binding protein 1 Source MGI Symbol Acc MGI 88494
B12	UPFM086770 7	ENSMUST00000206098.1	Crebbp	ENSMUSG0000022521	CREB binding protein Source MGI Symbol Acc MGI 1098280
C01	UPFM100324 8	ENSMUST00000027356.6	Cyp27a1	ENSMUSG0000026170	cytochrome P450, family 27, subfamily a, polypeptide 1 Source MGI Symbol Acc MGI 88594
C02	UPFM073340 8	ENSMUST00000094886.3	Cyp4a10	ENSMUSG0000066072	cytochrome P450, family 4, subfamily a, polypeptide 10 Source MGI Symbol Acc MGI 88611
C03	UPFM078519 1	ENSMUST00000147346.1	Cyp7a1	ENSMUSG0000028240	cytochrome P450, family 7, subfamily a, polypeptide 1 Source MGI Symbol Acc MGI 106091
C04	UPFM075173 6	ENSMUST00000159908.1	Dgat1	ENSMUSG0000022555	diacylglycerol O-acyltransferase 1 Source MGI Symbol Acc MGI 1333825
C05	UPFM089987 4	ENSMUST00000132376.1	Ech1	ENSMUSG0000053898	enoyl coenzyme A hydratase 1, peroxisomal Source MGI Symbol Acc MGI 1858208
C06	UPFM074886 8	ENSMUST00000023559.6	Ehhadh	ENSMUSG0000022853	enoyl-Coenzyme A, hydratase/3-hydroxyacyl Coenzyme A dehydrogenase Source MGI Symbol Acc MGI 1277964
C07	UPFM078153 8	ENSMUST00000202570.3	ElN	ENSMUSG0000029675	elastin Source MGI Symbol Acc MGI 95317
C08	UPFM063958 2	ENSMUST00000185967.2	Ep300	ENSMUSG0000055024	E1A binding protein p300 Source MGI Symbol Acc MGI 1276116
C09	UPFM085370 4	ENSMUST00000029386.13	Etfdh	ENSMUSG0000027809	electron transferring flavoprotein, dehydrogenase Source MGI Symbol Acc MGI 106100
C10	UPFM072777 3	ENSMUST00000067492.7	Fabp1	ENSMUSG0000054422	fatty acid binding protein 1, liver Source MGI Symbol Acc MGI 95479
	UPFM067950	ENSMUST000000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	1	023820.5	Fabp2	000023057	fatty acid binding protein 2, intestinal Source MGI Symbol Acc MGI 95478
C12	UPFM0815973	ENSMUST00000070532.7	Fabp3	ENSMUSG0000028773	fatty acid binding protein 3, muscle and heart Source MGI Symbol Acc MGI 95476
D01	UPFM0754389	ENSMUST00000029041.5	Fabp4	ENSMUSG0000062515	fatty acid binding protein 4, adipocyte Source MGI Symbol Acc MGI 88038
D02	UPFM0907939	ENSMUST00000123744.1	Fabp5	ENSMUSG0000027533	fatty acid binding protein 5, epidermal Source MGI Symbol Acc MGI 101790
D03	UPFM0804978	ENSMUST00000020672.4	Fabp6	ENSMUSG0000020405	fatty acid binding protein 6 Source MGI Symbol Acc MGI 96565
D04	UPFM0673174	ENSMUST00000165013.1	Fabp7	ENSMUSG0000019874	fatty acid binding protein 7, brain Source MGI Symbol Acc MGI 101916
D05	UPFM0654909	ENSMUST00000025567.8	Fads2	ENSMUSG0000024665	fatty acid desaturase 2 Source MGI Symbol Acc MGI 1930079
D06	UPFM0673876	ENSMUST00000171223.1	Fgr	ENSMUSG0000028874	FGR proto-oncogene, Src family tyrosine kinase Source MGI Symbol Acc MGI 95527
D07	UPFM0973801	ENSMUST00000026039.14	Gk	ENSMUSG0000025059	glycerol kinase Source MGI Symbol Acc MGI 106594
D08	UPFM0902406	ENSMUST00000110461.7	Hif1a	ENSMUSG0000021109	hypoxia inducible factor 1, alpha subunit Source MGI Symbol Acc MGI 106918
D09	UPFM0627125	ENSMUST00000090746.2	Hmgcs2	ENSMUSG0000027875	3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2 Source MGI Symbol Acc MGI 101939
D10	UPFM0787324	ENSMUST00000144077.2	Hspd1	ENSMUSG0000025980	heat shock protein 1 (chaperonin) Source MGI Symbol Acc MGI 96242
D11	UPFM0739678	ENSMUST00000149695.7	Ilk	ENSMUSG0000030890	integrin linked kinase Source MGI Symbol Acc MGI 1195267
D12	UPFM0942350	ENSMUST00000074043.6	Klf10	ENSMUSG0000037465	Kruppel-like factor 10 Source MGI Symbol Acc MGI 1101353
E01	UPFM0826787	ENSMUST00000169749.1	Lpl	ENSMUSG0000015568	lipoprotein lipase Source MGI Symbol Acc MGI 96820
E02	UPFM0739706	ENSMUST00000135479.7	Med1	ENSMUSG0000018160	mediator complex subunit 1 Source MGI Symbol Acc MGI 1100846
E03	UPFM0798445	ENSMUST00000098367.4	Mlycd	ENSMUSG0000074064	malonyl-CoA decarboxylase Source MGI Symbol Acc MGI 1928485
E04	UPFM0799308	ENSMUST00000017881.2	Mmp9	ENSMUSG0000017737	matrix metalloproteinase 9 Source MGI Symbol Acc MGI 97011
E05	UPFM0960850	ENSMUST00000139394.1	Nco3	ENSMUSG0000027678	nuclear receptor coactivator 3 Source MGI Symbol Acc MGI 1276535
E06	UPFM0952536	ENSMUST00000123293.7	Nco6	ENSMUSG0000038369	nuclear receptor coactivator 6 Source MGI Symbol Acc MGI 1929915
E07	UPFM0985138	ENSMUST00000111356.7	Nr1h3	ENSMUSG0000002108	nuclear receptor subfamily 1, group H, member 3 Source MGI Symbol Acc MGI 1352462
E08	UPFM0960868	ENSMUST00000183258.7	Olr1	ENSMUSG0000030162	oxidized low density lipoprotein (lectin-like) receptor 1 Source MGI Symbol Acc MGI 1261434
E09	UPFM0901466	ENSMUST00000150629.7	Pck1	ENSMUSG0000027513	phosphoenolpyruvate carboxykinase 1, cytosolic Source MGI Symbol Acc MGI 97501
E10	UPFM1006874	ENSMUST00000226231.1	Pck2	ENSMUSG0000040618	phosphoenolpyruvate carboxykinase 2 (mitochondrial) Source MGI Symbol Acc MGI 1860456
E11	UPFM0868633	ENSMUST00000052462.12	Pdk1	ENSMUSG0000024122	3-phosphoinositide dependent protein kinase 1 Source MGI Symbol Acc MGI 1338068
E12	UPFM0732253	ENSMUST00000109316.7	Pltp	ENSMUSG0000017754	phospholipid transfer protein Source MGI Symbol Acc MGI 103151
F01	UPFM0969439	ENSMUST00000138813.7	Ppara	ENSMUSG0000022383	peroxisome proliferator activated receptor alpha Source MGI Symbol Acc MGI 104740
F02	UPFM0963809	ENSMUST00000002320.15	Ppard	ENSMUSG0000002250	peroxisome proliferator activator receptor delta Source MGI Symbol Acc MGI 101884
F03	UPFM0842966	ENSMUST00000203732.2	Pparg	ENSMUSG0000000440	peroxisome proliferator activated receptor gamma Source MGI Symbol Acc MGI 97747
F04	UPFM0950442	ENSMUST00000031059.13	Ppargc1a	ENSMUSG0000029167	peroxisome proliferative activated receptor, gamma, coactivator 1 alpha Source MGI Symbol Acc MGI 1342774
F05	UPFM0738121	ENSMUST00000075299.12	Ppargc1b	ENSMUSG0000033871	peroxisome proliferative activated receptor, gamma, coactivator 1 beta Source MGI Symbol Acc MGI 2444934
F06	UPFM0875221	ENSMUST00000133101.1	Pprc1	ENSMUSG0000055491	peroxisome proliferative activated receptor, gamma, coactivator-related 1 Source MGI Symbol Acc MGI 2385096
F07	UPFM0897426	ENSMUST00000013807.7	Pten	ENSMUSG0000013663	phosphatase and tensin homolog Source MGI Symbol Acc MGI 109583
F08	UPFM0673221	ENSMUST00000166775.7	Rxra	ENSMUSG0000015846	retinoid X receptor alpha Source MGI Symbol Acc MGI 98214
F09	UPFM0972890	ENSMUST00000174130.1	Rxrb	ENSMUSG0000039656	retinoid X receptor beta Source MGI Symbol Acc MGI 98215
F10	UPFM0989500	ENSMUST00000015987.9	Rxrg	ENSMUSG0000015843	retinoid X receptor gamma Source MGI Symbol Acc MGI 98216

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM064289 0	ENSMUST00000 236824.1	Scd1	ENSMUSG00 000037071	stearoyl-Coenzyme A desaturase 1 Source MGI Symbol Acc MGI 98239
F12	UPFM091465 7	ENSMUST00000 177694.7	Sirt1	ENSMUSG00 000020063	sirtuin 1 Source MGI Symbol Acc MGI 2135607
G01	UPFM090958 9	ENSMUST00000 019044.7	Slc22a5	ENSMUSG00 000018900	solute carrier family 22 (organic cation transporter), member 5 Source MGI Symbol Acc MGI 1329012
G02	UPFM084460 3	ENSMUST00000 212211.1	Slc27a1	ENSMUSG00 000031808	solute carrier family 27 (fatty acid transporter), member 1 Source MGI Symbol Acc MGI 1347098
G03	UPFM100115 4	ENSMUST00000 141482.2	Slc27a2	ENSMUSG00 000027359	solute carrier family 27 (fatty acid transporter), member 2 Source MGI Symbol Acc MGI 1347099
G04	UPFM091509 2	ENSMUST00000 080065.2	Slc27a4	ENSMUSG00 000059316	solute carrier family 27 (fatty acid transporter), member 4 Source MGI Symbol Acc MGI 1347347
G05	UPFM066716 0	ENSMUST00000 133977.2	Slc27a5	ENSMUSG00 000030382	solute carrier family 27 (fatty acid transporter), member 5 Source MGI Symbol Acc MGI 1347100
G06	UPFM090698 2	ENSMUST00000 025500.6	Slc27a6	ENSMUSG00 000024600	solute carrier family 27 (fatty acid transporter), member 6 Source MGI Symbol Acc MGI 3036230
G07	UPFM077234 2	ENSMUST00000 144518.1	Smardc3	ENSMUSG00 000028949	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 3 Source MGI Symbol Acc MGI 1914243
G08	UPFM099748 3	ENSMUST00000 225786.1	Sorbs1	ENSMUSG00 000025006	sorbin and SH3 domain containing 1 Source MGI Symbol Acc MGI 700014
G09	UPFM071690 7	ENSMUST00000 109531.7	Src	ENSMUSG00 000027646	Rous sarcoma oncogene Source MGI Symbol Acc MGI 98397
G10	UPFM077833 9	ENSMUST00000 146315.1	Tgs1	ENSMUSG00 000028233	trimethylguanosine synthase 1 Source MGI Symbol Acc MGI 2151797
G11	UPFM067128 4	ENSMUST00000 074519.12	Txnip	ENSMUSG00 000038393	thioredoxin interacting protein Source MGI Symbol Acc MGI 1889549
G12	UPFM095120 9	ENSMUST00000 034146.4	Ucp1	ENSMUSG00 000031710	uncoupling protein 1 (mitochondrial, proton carrier) Source MGI Symbol Acc MGI 98894
H01	UPFM113294 6	ENSMUST00000 163829.1	Actb	ENSMUSG00 000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	UPFM113294 7	ENSMUST00000 102476.4	B2m	ENSMUSG00 000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	UPFM113294 8	ENSMUST00000 117757.8	Gapdh	ENSMUSG00 000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	UPFM113294 9	ENSMUST00000 026613.13	Gusb	ENSMUSG00 000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	UPFM113295 0	ENSMUST00000 166469.7	Hsp90ab1	ENSMUSG00 000023944	heat shock protein 90 alpha (cytosolic), class B member 1 Source MGI Symbol Acc MGI 96247
H06	UPFM112660 9	UPL_MGDC	MGDC	UPL_MGDC	Mouse 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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