

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

Mouse Fatty Liver

Cat. no. 249955 UPMM-157ZA

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	Abca1	Abcg1	Acaca	Acadl	Acly	Acox1	Acsf5	Acsf3	Adipor1	Adipor2	Akt1	Apoa1
B	Apob	Apoc3	ApoE	Alp5c1	Casp3	Cd36	Cebpb	Cnbp	Cpt1a	Cpt2	Cyp2e1	Cyp7a1
C	Dgat2	Fabp1	Fabp3	Fabp5	Fas	Fasn	Foxa2	G6pc	G6pdx	Gck	Gsk3b	Gk
D	Hmgcr	Hnf4a	Ifng	Igf1	Igf1bp1	Il10	Il1b	Il6	Insr	Irs1	Ldlr	Lepr
E	Lpl	Mapk1	Mapk8	Mlxipl	Mtor	Ndub6	Nr1h1	Nr1h2	Nr1h3	Nr1h4	Pck2	Pdk4
F	Pik3ca	Pik3r1	Pikr	Ppa1	Ppara	Ppard	Pparg	Ppargc1a	Prkaa1	Ptpn1	Rbp4	Rxra
G	Scd1	Serpine1	Slc27a5	Slc2a1	Slc2a2	Slc2a4	Socs3	Srebf1	Srebf2	Stat3	Tnf	Xbp1
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	UPFM1007913	ENSMUST00000030010.3	Abca1	ENSMUSG0000015243	ATP-binding cassette, sub-family A (ABC1), member 1 Source MGI Symbol Acc MGI 99607
A02	UPFM0919271	ENSMUST00000139013.1	Abcg1	ENSMUSG0000024030	ATP binding cassette subfamily G member 1 Source MGI Symbol Acc MGI 107704
A03	UPFM0948549	ENSMUST00000130012.8	Acaca	ENSMUSG0000020532	acetyl-Coenzyme A carboxylase alpha Source MGI Symbol Acc MGI 108451
A04	UPFM0920910	ENSMUST00000139208.1	Acadl	ENSMUSG0000026003	acyl-Coenzyme A dehydrogenase, long-chain Source MGI Symbol Acc MGI 87866
A05	UPFM0975405	ENSMUST00000007131.15	Acly	ENSMUSG0000020917	ATP citrate lyase Source MGI Symbol Acc MGI 103251
A06	UPFM0927488	ENSMUST00000066587.11	Acox1	ENSMUSG0000020777	acyl-Coenzyme A oxidase 1, palmitoyl Source MGI Symbol Acc MGI 1330812
A07	UPFM0815851	ENSMUST00000224414.1	Acsf5	ENSMUSG0000024981	acyl-CoA synthetase long-chain family member 5 Source MGI Symbol Acc MGI 1919129
A08	UPFM0639336	ENSMUST00000149598.1	Acsf3	ENSMUSG0000030935	acyl-CoA synthetase medium-chain family member 3 Source MGI Symbol Acc MGI 99538
A09	UPFM0758976	ENSMUST00000148822.1	Adipor1	ENSMUSG0000026457	adiponectin receptor 1 Source MGI Symbol Acc MGI 1919924
A10	UPFM0899657	ENSMUST00000169744.7	Adipor2	ENSMUSG0000030168	adiponectin receptor 2 Source MGI Symbol Acc MGI 93830
A11	UPFM0827860	ENSMUST00000139388.2	Akt1	ENSMUSG0000001729	thymoma viral proto-oncogene 1 Source MGI Symbol Acc MGI 87986
A12	UPFM0827885	ENSMUST00000034588.8	Apoa1	ENSMUSG0000032083	apolipoprotein A-I Source MGI Symbol Acc MGI 88049
B01	UPFM0987341	ENSMUST00000171271.7	ApoB	ENSMUSG0000020609	apolipoprotein B Source MGI Symbol Acc MGI 88052
B02	UPFM0962683	ENSMUST00000118649.7	ApoC3	ENSMUSG0000032081	apolipoprotein C-III Source MGI Symbol Acc MGI 88055
B03	UPFM0926421	ENSMUST00000172808.1	ApoE	ENSMUSG0000002985	apolipoprotein E Source MGI Symbol Acc MGI 88057
B04	UPFM0624940	ENSMUST00000153554.7	Atp5c1	ENSMUSG0000025781	ATP synthase, H+ transporting, mitochondrial F1 complex, gamma polypeptide 1 Source MGI Symbol Acc MGI 1261437
B05	UPFM0728951	ENSMUST00000210534.1	Casp3	ENSMUSG0000031628	caspase 3 Source MGI Symbol Acc MGI 107739
B06	UPFM0835508	ENSMUST00000170051.7	Cd36	ENSMUSG0000002944	CD36 molecule Source MGI Symbol Acc MGI 107899
B07	UPFM1172940	ENSMUST00000070642.3	Cebpb	ENSMUSG0000056501	CCAAT/enhancer binding protein (C/EBP), beta Source MGI Symbol Acc MGI 88373
B08	UPFM0709430	ENSMUST00000113619.7	Cnbp	ENSMUSG0000030057	cellular nucleic acid binding protein Source MGI Symbol Acc MGI 88431
B09	UPFM0666975	ENSMUST00000238027.1	Cpt1a	ENSMUSG0000024900	carnitine palmitoyltransferase 1a, liver Source MGI Symbol Acc MGI 1098296
B10	UPFM0915840	ENSMUST00000106720.8	Cpt2	ENSMUSG0000028607	carnitine palmitoyltransferase 2 Source MGI Symbol Acc MGI 109176
B11	UPFM0815665	ENSMUST00000210403.1	Cyp2e1	ENSMUSG0000025479	cytochrome P450, family 2, subfamily e, polypeptide 1 Source MGI Symbol Acc MGI 88607
B12	UPFM0785191	ENSMUST00000147346.1	Cyp7a1	ENSMUSG0000028240	cytochrome P450, family 7, subfamily a, polypeptide 1 Source MGI Symbol Acc MGI 106091
C01	UPFM0662012	ENSMUST00000207894.1	Dgat2	ENSMUSG0000030747	diacylglycerol O-acyltransferase 2 Source MGI Symbol Acc MGI 1915050
C02	UPFM0727773	ENSMUST00000067492.7	Fabp1	ENSMUSG0000054422	fatty acid binding protein 1, liver Source MGI Symbol Acc MGI 95479
C03	UPFM0815973	ENSMUST00000070532.7	Fabp3	ENSMUSG0000028773	fatty acid binding protein 3, muscle and heart Source MGI Symbol Acc MGI 95476
C04	UPFM0907939	ENSMUST00000123744.1	Fabp5	ENSMUSG0000027533	fatty acid binding protein 5, epidermal Source MGI Symbol Acc MGI 101790
C05	UPFM0995787	ENSMUST00000235709.1	Fas	ENSMUSG0000024778	Fas (TNF receptor superfamily member 6) Source MGI Symbol Acc MGI 95484
C06	UPFM0812652	ENSMUST00000055655.8	Fasn	ENSMUSG0000025153	fatty acid synthase Source MGI Symbol Acc MGI 95485
C07	UPFM0668080	ENSMUST00000109964.7	Foxa2	ENSMUSG0000037025	forkhead box A2 Source MGI Symbol Acc MGI 1347476
C08	UPFM0691164	ENSMUST00000019469.2	G6pc	ENSMUSG0000078650	glucose-6-phosphatase, catalytic Source MGI Symbol Acc MGI 95607
C09	UPFM0844932	ENSMUST00000143521.1	G6pdx	ENSMUSG0000031400	glucose-6-phosphate dehydrogenase X-linked Source MGI Symbol Acc MGI 105979
C10	UPFM0800141	ENSMUST00000109823.8	Gck	ENSMUSG0000041798	glucokinase Source MGI Symbol Acc MGI 1270854
	UPFM098687	ENSMUST00000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	7	114750.1	Gsk3b	000022812	glycogen synthase kinase 3 beta Source MGI Symbol Acc MGI 1861437
C12	UPFM097380 1	ENSMUST00000 026039.14	Gk	ENSMUSG00 000025059	glycerol kinase Source MGI Symbol Acc MGI 106594
D01	UPFM086447 9	ENSMUST00000 168374.1	Hmgcr	ENSMUSG00 000021670	3-hydroxy-3-methylglutaryl-Coenzyme A reductase Source MGI Symbol Acc MGI 96159
D02	UPFM089220 5	ENSMUST00000 137449.1	Hnf4a	ENSMUSG00 000017950	hepatic nuclear factor 4, alpha Source MGI Symbol Acc MGI 109128
D03	UPFM117295 0	ENSMUST00000 068592.4	Ifng	ENSMUSG00 000055170	interferon gamma Source MGI Symbol Acc MGI 107656
D04	UPFM092941 8	ENSMUST00000 121161.7	Igf1	ENSMUSG00 000020053	insulin-like growth factor 1 Source MGI Symbol Acc MGI 96432
D05	UPFM064388 5	ENSMUST00000 020704.7	Igfbp1	ENSMUSG00 000020429	insulin-like growth factor binding protein 1 Source MGI Symbol Acc MGI 96436
D06	UPFM117295 1	ENSMUST00000 016673.5	Il10	ENSMUSG00 000016529	interleukin 10 Source MGI Symbol Acc MGI 96537
D07	UPFM067128 1	ENSMUST00000 155994.1	Il1b	ENSMUSG00 000027398	interleukin 1 beta Source MGI Symbol Acc MGI 96543
D08	UPFM072909 9	ENSMUST00000 195978.4	Il6	ENSMUSG00 000025746	interleukin 6 Source MGI Symbol Acc MGI 96559
D09	UPFM062502 4	ENSMUST00000 207100.1	Insr	ENSMUSG00 000005534	insulin receptor Source MGI Symbol Acc MGI 96575
D10	UPFM068140 3	ENSMUST00000 069799.2	Irs1	ENSMUSG00 000055980	insulin receptor substrate 1 Source MGI Symbol Acc MGI 99454
D11	UPFM073255 6	ENSMUST00000 034713.8	Ldlr	ENSMUSG00 000032193	low density lipoprotein receptor Source MGI Symbol Acc MGI 96765
D12	UPFM097537 4	ENSMUST00000 128948.7	Lepr	ENSMUSG00 000057722	leptin receptor Source MGI Symbol Acc MGI 104993
E01	UPFM082678 7	ENSMUST00000 169749.1	Lpl	ENSMUSG00 000015568	lipoprotein lipase Source MGI Symbol Acc MGI 96820
E02	UPFM066625 9	ENSMUST00000 232611.1	Mapk1	ENSMUSG00 000063358	mitogen-activated protein kinase 1 Source MGI Symbol Acc MGI 1346858
E03	UPFM091565 7	ENSMUST00000 111944.9	Mapk8	ENSMUSG00 000021936	mitogen-activated protein kinase 8 Source MGI Symbol Acc MGI 1346861
E04	UPFM095871 4	ENSMUST00000 201977.3	Mlxip1	ENSMUSG00 000005373	MLX interacting protein-like Source MGI Symbol Acc MGI 1927999
E05	UPFM062102 3	ENSMUST00000 057580.7	Mtor	ENSMUSG00 000028991	mechanistic target of rapamycin kinase Source MGI Symbol Acc MGI 1928394
E06	UPFM084626 4	ENSMUST00000 108108.2	Ndufb6	ENSMUSG00 000071014	NADH ubiquinone oxidoreductase subunit B6 Source MGI Symbol Acc MGI 2684983
E07	UPFM098758 7	ENSMUST00000 029812.13	Nfkb1	ENSMUSG00 000028163	nuclear factor of kappa light polypeptide gene enhancer in B cells 1, p105 Source MGI Symbol Acc MGI 97312
E08	UPFM093910 2	ENSMUST00000 208322.1	Nr1h2	ENSMUSG00 000060601	nuclear receptor subfamily 1, group H, member 2 Source MGI Symbol Acc MGI 1352463
E09	UPFM098513 8	ENSMUST00000 111356.7	Nr1h3	ENSMUSG00 000002108	nuclear receptor subfamily 1, group H, member 3 Source MGI Symbol Acc MGI 1352462
E10	UPFM085904 0	ENSMUST00000 105296.8	Nr1h4	ENSMUSG00 000047638	nuclear receptor subfamily 1, group H, member 4 Source MGI Symbol Acc MGI 1352464
E11	UPFM100687 4	ENSMUST00000 226231.1	Pck2	ENSMUSG00 000040618	phosphoenolpyruvate carboxykinase 2 (mitochondrial) Source MGI Symbol Acc MGI 1860456
E12	UPFM076170 2	ENSMUST00000 203347.2	Pdk4	ENSMUSG00 000019577	pyruvate dehydrogenase kinase, isoenzyme 4 Source MGI Symbol Acc MGI 1351481
F01	UPFM070843 8	ENSMUST00000 108243.7	Pik3ca	ENSMUSG00 000027665	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha Source MGI Symbol Acc MGI 1206581
F02	UPFM073586 5	ENSMUST00000 185795.1	Pik3r1	ENSMUSG00 000041417	phosphoinositide-3-kinase regulatory subunit 1 Source MGI Symbol Acc MGI 97583
F03	UPFM096059 1	ENSMUST00000 047111.12	Pklr	ENSMUSG00 000041237	pyruvate kinase liver and red blood cell Source MGI Symbol Acc MGI 97604
F04	UPFM087426 1	ENSMUST00000 160607.1	Ppa1	ENSMUSG00 000020089	pyrophosphatase (inorganic) 1 Source MGI Symbol Acc MGI 97831
F05	UPFM096943 9	ENSMUST00000 138813.7	Ppara	ENSMUSG00 000022383	peroxisome proliferator activated receptor alpha Source MGI Symbol Acc MGI 104740
F06	UPFM096380 9	ENSMUST00000 002320.15	Ppard	ENSMUSG00 000002250	peroxisome proliferator activator receptor delta Source MGI Symbol Acc MGI 101884
F07	UPFM084296 6	ENSMUST00000 203732.2	Pparg	ENSMUSG00 000000440	peroxisome proliferator activated receptor gamma Source MGI Symbol Acc MGI 97747
F08	UPFM095044 2	ENSMUST00000 031059.13	Ppargc1a	ENSMUSG00 000029167	peroxisome proliferative activated receptor, gamma, coactivator 1 alpha Source MGI Symbol Acc MGI 1342774
F09	UPFM089479 8	ENSMUST00000 228218.1	Prkaa1	ENSMUSG00 000050697	protein kinase, AMP-activated, alpha 1 catalytic subunit Source MGI Symbol Acc MGI 2145955
F10	UPFM096458 5	ENSMUST00000 147210.7	Ptpn1	ENSMUSG00 000027540	protein tyrosine phosphatase, non-receptor type 1 Source MGI Symbol Acc MGI 97805

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM098879 1	ENSMUST00000 112335.3	Rbp4	ENSMUSG00 000024990	retinol binding protein 4, plasma Source MGI Symbol Acc MGI 97879
F12	UPFM067322 1	ENSMUST00000 166775.7	Rxra	ENSMUSG00 000015846	retinoid X receptor alpha Source MGI Symbol Acc MGI 98214
G01	UPFM064289 0	ENSMUST00000 236824.1	Scd1	ENSMUSG00 000037071	stearoyl-Coenzyme A desaturase 1 Source MGI Symbol Acc MGI 98239
G02	UPFM070788 6	ENSMUST00000 041388.10	Serpine1	ENSMUSG00 000037411	serine (or cysteine) peptidase inhibitor, clade E, member 1 Source MGI Symbol Acc MGI 97608
G03	UPFM066716 0	ENSMUST00000 133977.2	Slc27a5	ENSMUSG00 000030382	solute carrier family 27 (fatty acid transporter), member 5 Source MGI Symbol Acc MGI 1347100
G04	UPFM099940 7	ENSMUST00000 208090.1	Slc2a1	ENSMUSG00 000028645	solute carrier family 2 (facilitated glucose transporter), member 1 Source MGI Symbol Acc MGI 95755
G05	UPFM062954 5	ENSMUST00000 029240.13	Slc2a2	ENSMUSG00 000027690	solute carrier family 2 (facilitated glucose transporter), member 2 Source MGI Symbol Acc MGI 1095438
G06	UPFM070742 3	ENSMUST00000 018710.12	Slc2a4	ENSMUSG00 000018566	solute carrier family 2 (facilitated glucose transporter), member 4 Source MGI Symbol Acc MGI 95758
G07	UPFM069413 9	ENSMUST00000 054002.3	Socs3	ENSMUSG00 000053113	suppressor of cytokine signaling 3 Source MGI Symbol Acc MGI 1201791
G08	UPFM063110 3	ENSMUST00000 149238.1	Srebf1	ENSMUSG00 000020538	sterol regulatory element binding transcription factor 1 Source MGI Symbol Acc MGI 107606
G09	UPFM072892 4	ENSMUST00000 230955.1	Srebf2	ENSMUSG00 000022463	sterol regulatory element binding factor 2 Source MGI Symbol Acc MGI 107585
G10	UPFM098484 5	ENSMUST00000 092671.11	Stat3	ENSMUSG00 000004040	signal transducer and activator of transcription 3 Source MGI Symbol Acc MGI 103038
G11	UPFM063847 1	ENSMUST00000 025263.14	Tnf	ENSMUSG00 000024401	tumor necrosis factor Source MGI Symbol Acc MGI 104798
G12	UPFM075379 9	ENSMUST00000 149623.7	Xbp1	ENSMUSG00 000020484	X-box binding protein 1 Source MGI Symbol Acc MGI 98970
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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