

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

Mouse Adipogenesis

Cat. no. 249955 UPMM-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	Adig	Adipoq	Adrb2	Agf	Angpt2	Axin1	Bmp2	Bmp4	Bmp7	Ccnd1	Cdk4
B	Cdkn1a	Cdkn1b	Cebpa	Cebpb	Cebpd	Cfd	Creb1	Ddit3	Dio2	Dkk1	Dlk1	E2f1
C	Egr2	Fabp4	Fasn	Fgf1	Fgf10	Fgf2	Foxc2	Foxo1	Gata2	Gata3	Hes1	Insr
D	Irs1	Irs2	Jun	Klf15	Klf2	Klf3	Klf4	Lep	Lipe	Lmna	Lpl	Lrp5
E	Mapk14	Ncoa2	Ncor2	Nr0b2	Nr1h3	Nrf1	Ppara	Ppard	Pparg	Ppargc1a	Ppargc1b	Prdm16
F	Rb1	Retn	Runx11	Rxa	Sfrp1	Sfrp5	Shh	Sirt1	Sirt2	Sirt3	Slc2a4	Src
G	Srebf1	Toz	Tcf7l2	Tsc22d3	Twist1	Ucp1	Vdr	Wnt1	Wnt10b	Wnt3a	Wnt5a	Wnt5b
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	UPFM077803 6	ENSMUST00000 143276.1	Acacb	ENSMUSG00 000042010	acetyl-Coenzyme A carboxylase beta Source MGI Symbol Acc MGI 2140940
A02	UPFM063325 6	ENSMUST00000 059889.3	Adig	ENSMUSG00 000044405	adipogenin Source MGI Symbol Acc MGI 2675492
A03	UPFM096756 9	ENSMUST00000 023593.5	Adipoq	ENSMUSG00 000022878	adiponectin, C1Q and collagen domain containing Source MGI Symbol Acc MGI 106675
A04	UPFM086644 3	ENSMUST00000 053640.4	Adrb2	ENSMUSG00 000045730	adrenergic receptor, beta 2 Source MGI Symbol Acc MGI 87938
A05	UPFM088419 7	ENSMUST00000 063278.6	Agt	ENSMUSG00 000031980	angiotensinogen (serpin peptidase inhibitor, clade A, member 8) Source MGI Symbol Acc MGI 87963
A06	UPFM074499 5	ENSMUST00000 170200.1	Angpt2	ENSMUSG00 000031465	angiopoietin 2 Source MGI Symbol Acc MGI 1202890
A07	UPFM081576 6	ENSMUST00000 168282.2	Axin1	ENSMUSG00 000024182	axin 1 Source MGI Symbol Acc MGI 1096327
A08	UPFM117294 5	ENSMUST00000 028836.6	Bmp2	ENSMUSG00 000027358	bone morphogenetic protein 2 Source MGI Symbol Acc MGI 88177
A09	UPFM097472 7	ENSMUST00000 100676.2	Bmp4	ENSMUSG00 000021835	bone morphogenetic protein 4 Source MGI Symbol Acc MGI 88180
A10	UPFM093035 6	ENSMUST00000 009143.7	Bmp7	ENSMUSG00 000008999	bone morphogenetic protein 7 Source MGI Symbol Acc MGI 103302
A11	UPFM093346 3	ENSMUST00000 208193.1	Ccnd1	ENSMUSG00 000070348	cyclin D1 Source MGI Symbol Acc MGI 88313
A12	UPFM094816 9	ENSMUST00000 140254.7	Cdk4	ENSMUSG00 000006728	cyclin-dependent kinase 4 Source MGI Symbol Acc MGI 88357
B01	UPFM086779 1	ENSMUST00000 122348.2	Cdkn1a	ENSMUSG00 000023067	cyclin-dependent kinase inhibitor 1A (P21) Source MGI Symbol Acc MGI 104556
B02	UPFM072528 3	ENSMUST00000 204807.1	Cdkn1b	ENSMUSG00 000003031	cyclin-dependent kinase inhibitor 1B Source MGI Symbol Acc MGI 104565
B03	UPFM099260 7	ENSMUST00000 042985.10	Cebpa	ENSMUSG00 000034957	CCAAT/enhancer binding protein (C/EBP), alpha Source MGI Symbol Acc MGI 99480
B04	UPFM117294 0	ENSMUST00000 070642.3	Cebpb	ENSMUSG00 000056501	CCAAT/enhancer binding protein (C/EBP), beta Source MGI Symbol Acc MGI 88373
B05	UPFM093221 5	ENSMUST00000 210772.1	Cebpd	ENSMUSG00 000071637	CCAAT/enhancer binding protein (C/EBP), delta Source MGI Symbol Acc MGI 103573
B06	UPFM081054 5	ENSMUST00000 217837.1	Cfd	ENSMUSG00 000061780	complement factor D (adipsin) Source MGI Symbol Acc MGI 87931
B07	UPFM085293 8	ENSMUST00000 087366.10	Creb1	ENSMUSG00 000025958	cAMP responsive element binding protein 1 Source MGI Symbol Acc MGI 88494
B08	UPFM076656 9	ENSMUST00000 026475.14	Ddit3	ENSMUSG00 000025408	DNA-damage inducible transcript 3 Source MGI Symbol Acc MGI 109247
B09	UPFM064376 7	ENSMUST00000 082432.4	Dio2	ENSMUSG00 000007682	deiodinase, iodothyronine, type II Source MGI Symbol Acc MGI 1338833
B10	UPFM100823 0	ENSMUST00000 025803.8	Dkk1	ENSMUSG00 000024868	dickkopf WNT signaling pathway inhibitor 1 Source MGI Symbol Acc MGI 1329040
B11	UPFM093509 3	ENSMUST00000 109846.10	Dlk1	ENSMUSG00 000040856	delta like non-canonical Notch ligand 1 Source MGI Symbol Acc MGI 94900
B12	UPFM066128 0	ENSMUST00000 000894.5	E2f1	ENSMUSG00 000027490	E2F transcription factor 1 Source MGI Symbol Acc MGI 101941
C01	UPFM068711 9	ENSMUST00000 145936.1	Egr2	ENSMUSG00 000037868	early growth response 2 Source MGI Symbol Acc MGI 95296
C02	UPFM075438 9	ENSMUST00000 029041.5	Fabp4	ENSMUSG00 000062515	fatty acid binding protein 4, adipocyte Source MGI Symbol Acc MGI 88038
C03	UPFM081265 2	ENSMUST00000 055655.8	Fasn	ENSMUSG00 000025153	fatty acid synthase Source MGI Symbol Acc MGI 95485
C04	UPFM088976 4	ENSMUST00000 139972.1	Fgf1	ENSMUSG00 000036585	fibroblast growth factor 1 Source MGI Symbol Acc MGI 95515
C05	UPFM068203 7	ENSMUST00000 128103.8	Fgf10	ENSMUSG00 000021732	fibroblast growth factor 10 Source MGI Symbol Acc MGI 1099809
C06	UPFM073062 9	ENSMUST00000 145228.1	Fgf2	ENSMUSG00 000037225	fibroblast growth factor 2 Source MGI Symbol Acc MGI 95516
C07	UPFM070963 5	ENSMUST00000 054691.7	Foxc2	ENSMUSG00 000046714	forkhead box C2 Source MGI Symbol Acc MGI 1347481
C08	UPFM073382 1	ENSMUST00000 053764.6	Foxo1	ENSMUSG00 000044167	forkhead box O1 Source MGI Symbol Acc MGI 1890077
C09	UPFM074268 8	ENSMUST00000 203579.1	Gata2	ENSMUSG00 000015053	GATA binding protein 2 Source MGI Symbol Acc MGI 95662
C10	UPFM070391 0	ENSMUST00000 151456.1	Gata3	ENSMUSG00 000015619	GATA binding protein 3 Source MGI Symbol Acc MGI 95663
	UPFM064713	ENSMUST00000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	7	160592.2	Hes1	000022528	hes family bHLH transcription factor 1 Source MGI Symbol Acc MGI 104853
C12	UPFM062502 4	ENSMUST00000 207100.1	Insr	ENSMUSG00 00005534	insulin receptor Source MGI Symbol Acc MGI 96575
D01	UPFM068140 3	ENSMUST00000 069799.2	Irs1	ENSMUSG00 000055980	insulin receptor substrate 1 Source MGI Symbol Acc MGI 99454
D02	UPFM078114 6	ENSMUST00000 040514.7	Irs2	ENSMUSG00 000038894	insulin receptor substrate 2 Source MGI Symbol Acc MGI 109334
D03	UPFM097521 6	ENSMUST00000 107094.1	Jun	ENSMUSG00 000052684	jun proto-oncogene Source MGI Symbol Acc MGI 96646
D04	UPFM070458 0	ENSMUST00000 205136.1	Klf15	ENSMUSG00 000030087	Kruppel-like factor 15 Source MGI Symbol Acc MGI 1929988
D05	UPFM086886 1	ENSMUST00000 067912.7	Klf2	ENSMUSG00 000055148	Kruppel-like factor 2 (lung) Source MGI Symbol Acc MGI 1342772
D06	UPFM063259 1	ENSMUST00000 196764.1	Klf3	ENSMUSG00 000029178	Kruppel-like factor 3 (basic) Source MGI Symbol Acc MGI 1342773
D07	UPFM077094 3	ENSMUST00000 107619.2	Klf4	ENSMUSG00 000003032	Kruppel-like factor 4 (gut) Source MGI Symbol Acc MGI 1342287
D08	UPFM068614 7	ENSMUST00000 169505.1	Lep	ENSMUSG00 000059201	leptin Source MGI Symbol Acc MGI 104663
D09	UPFM099108 5	ENSMUST00000 206861.1	Lipe	ENSMUSG00 000003123	lipase, hormone sensitive Source MGI Symbol Acc MGI 96790
D10	UPFM086433 1	ENSMUST00000 120377.7	Lmna	ENSMUSG00 000028063	lamin A Source MGI Symbol Acc MGI 96794
D11	UPFM082678 7	ENSMUST00000 169749.1	Lpl	ENSMUSG00 000015568	lipoprotein lipase Source MGI Symbol Acc MGI 96820
D12	UPFM089109 2	ENSMUST00000 177294.1	Lrp5	ENSMUSG00 000024913	low density lipoprotein receptor-related protein 5 Source MGI Symbol Acc MGI 1278315
E01	UPFM074684 8	ENSMUST00000 004990.13	Mapk14	ENSMUSG00 000053436	mitogen-activated protein kinase 14 Source MGI Symbol Acc MGI 1346865
E02	UPFM078356 8	ENSMUST00000 068304.12	Ncoa2	ENSMUSG00 000005886	nuclear receptor coactivator 2 Source MGI Symbol Acc MGI 1276533
E03	UPFM077576 6	ENSMUST00000 144354.1	Ncor2	ENSMUSG00 000029478	nuclear receptor co-repressor 2 Source MGI Symbol Acc MGI 1337080
E04	UPFM085837 5	ENSMUST00000 042706.2	Nr0b2	ENSMUSG00 000037583	nuclear receptor subfamily 0, group B, member 2 Source MGI Symbol Acc MGI 1346344
E05	UPFM098513 8	ENSMUST00000 111356.7	Nr1h3	ENSMUSG00 000002108	nuclear receptor subfamily 1, group H, member 3 Source MGI Symbol Acc MGI 1352462
E06	UPFM079895 8	ENSMUST00000 069831.14	Nrf1	ENSMUSG00 000058440	nuclear respiratory factor 1 Source MGI Symbol Acc MGI 1332235
E07	UPFM096943 9	ENSMUST00000 138813.7	Ppara	ENSMUSG00 000022383	peroxisome proliferator activated receptor alpha Source MGI Symbol Acc MGI 104740
E08	UPFM096380 9	ENSMUST00000 002320.15	Ppard	ENSMUSG00 000002250	peroxisome proliferator activator receptor delta Source MGI Symbol Acc MGI 101884
E09	UPFM084296 6	ENSMUST00000 203732.2	Pparg	ENSMUSG00 000000440	peroxisome proliferator activated receptor gamma Source MGI Symbol Acc MGI 97747
E10	UPFM095044 2	ENSMUST00000 031059.13	Ppargc1a	ENSMUSG00 000029167	peroxisome proliferative activated receptor, gamma, coactivator 1 alpha Source MGI Symbol Acc MGI 1342774
E11	UPFM073812 1	ENSMUST00000 075299.12	Ppargc1b	ENSMUSG00 000033871	peroxisome proliferative activated receptor, gamma, coactivator 1 beta Source MGI Symbol Acc MGI 2444934
E12	UPFM099744 5	ENSMUST00000 097759.8	Prdm16	ENSMUSG00 000039410	PR domain containing 16 Source MGI Symbol Acc MGI 1917923
F01	UPFM077278 8	ENSMUST00000 022701.6	Rb1	ENSMUSG00 000022105	RB transcriptional corepressor 1 Source MGI Symbol Acc MGI 97874
F02	UPFM080373 5	ENSMUST00000 012849.14	Retn	ENSMUSG00 000012705	resistin Source MGI Symbol Acc MGI 1888506
F03	UPFM078836 6	ENSMUST00000 006761.9	Runx1l1	ENSMUSG00 000006586	RUNX1 translocation partner 1 Source MGI Symbol Acc MGI 104793
F04	UPFM067322 1	ENSMUST00000 166775.7	Rxra	ENSMUSG00 000015846	retinoid X receptor alpha Source MGI Symbol Acc MGI 98214
F05	UPFM083115 9	ENSMUST00000 033952.7	Sfrp1	ENSMUSG00 000031548	secreted frizzled-related protein 1 Source MGI Symbol Acc MGI 892014
F06	UPFM082478 0	ENSMUST00000 018966.7	Sfrp5	ENSMUSG00 000018822	secreted frizzled-related sequence protein 5 Source MGI Symbol Acc MGI 1860298
F07	UPFM073707 0	ENSMUST00000 002708.4	Shh	ENSMUSG00 000002633	sonic hedgehog Source MGI Symbol Acc MGI 98297
F08	UPFM091465 7	ENSMUST00000 177694.7	Sirt1	ENSMUSG00 000020063	sirtuin 1 Source MGI Symbol Acc MGI 2135607
F09	UPFM086060 5	ENSMUST00000 170068.8	Sirt2	ENSMUSG00 000015149	sirtuin 2 Source MGI Symbol Acc MGI 1927664
F10	UPFM092659 6	ENSMUST00000 026559.13	Sirt3	ENSMUSG00 000025486	sirtuin 3 Source MGI Symbol Acc MGI 1927665

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM070742 3	ENSMUST00000 018710.12	Slc2a4	ENSMUSG00 000018566	solute carrier family 2 (facilitated glucose transporter), member 4 Source MGI Symbol Acc MGI 95758
F12	UPFM071690 7	ENSMUST00000 109531.7	Src	ENSMUSG00 000027646	Rous sarcoma oncogene Source MGI Symbol Acc MGI 98397
G01	UPFM063110 3	ENSMUST00000 149238.1	Srebf1	ENSMUSG00 000020538	sterol regulatory element binding transcription factor 1 Source MGI Symbol Acc MGI 107606
G02	UPFM082027 4	ENSMUST00000 147844.8	Taz	ENSMUSG00 000009995	tafazzin Source MGI Symbol Acc MGI 109626
G03	UPFM098825 9	ENSMUST00000 142291.7	Tcf7l2	ENSMUSG00 000024985	transcription factor 7 like 2, T cell specific, HMG box Source MGI Symbol Acc MGI 1202879
G04	UPFM086099 0	ENSMUST00000 112996.8	Tsc22d3	ENSMUSG00 000031431	TSC22 domain family, member 3 Source MGI Symbol Acc MGI 1196284
G05	UPFM089781 8	ENSMUST00000 049089.6	Twist1	ENSMUSG00 000035799	twist basic helix-loop-helix transcription factor 1 Source MGI Symbol Acc MGI 98872
G06	UPFM095120 9	ENSMUST00000 034146.4	Ucp1	ENSMUSG00 000031710	uncoupling protein 1 (mitochondrial, proton carrier) Source MGI Symbol Acc MGI 98894
G07	UPFM099996 3	ENSMUST00000 023119.14	Vdr	ENSMUSG00 000022479	vitamin D (1,25-dihydroxyvitamin D3) receptor Source MGI Symbol Acc MGI 103076
G08	UPFM069215 7	ENSMUST00000 023734.7	Wnt1	ENSMUSG00 000022997	wingless-type MMTV integration site family, member 1 Source MGI Symbol Acc MGI 98953
G09	UPFM093570 2	ENSMUST00000 226846.1	Wnt10b	ENSMUSG00 000022996	wingless-type MMTV integration site family, member 10B Source MGI Symbol Acc MGI 108061
G10	UPFM077659 1	ENSMUST00000 010044.7	Wnt3a	ENSMUSG00 000009900	wingless-type MMTV integration site family, member 3A Source MGI Symbol Acc MGI 98956
G11	UPFM099069 5	ENSMUST00000 063465.11	Wnt5a	ENSMUSG00 000021994	wingless-type MMTV integration site family, member 5A Source MGI Symbol Acc MGI 98958
G12	UPFM065525 5	ENSMUST00000 117171.7	Wnt5b	ENSMUSG00 000030170	wingless-type MMTV integration site family, member 5B Source MGI Symbol Acc MGI 98959
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.

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.