

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

Mouse Alzheimer's Disease

Cat. no. 249955 UPMM-057ZA

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	A2m	Abca1	Ache	Adam9	Apba1	Apba3	Apbb1	Apbb2	Aph1a	Aplp1	Aplp2	Apoa1
B	ApoE	App	Bace1	Bace2	Bche	Bdnf	Casp3	Casp4	Cdk1	Cdk5	Cdkl1	Chat
C	Clu	Ctsb	Ctsc	Ctsd	Ctsg	Ctsl	Ep300	Ern1	Gap43	Gnao1	Gnaz	Gnb1
D	Gnb2	Gnb4	Gnb5	Gng10	Gng11	Gng3	Gng4	Gng5	Gng7	Gng8	Gngt1	Gngt2
E	Gsk3a	Gsk3b	Hsd17b10	Ide	Igf2	Il1a	Insr	Lpl	Lrp1	Lrp6	Lrp8	Mapt
F	Mpo	Map2	Nae1	Ncstn	Pkp4	Plat	Plau	Plg	Prkca	Prkcb	Prkcg	Prkcd
G	Prkce	Prkci	Prkq	Prkcz	Psen1	Psen2	Serpina3c	Snca	Snca	Snca	Ubqln1	Uqcrc1
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	UPFM093766 7	ENSMUST00000 032203.8	A2m	ENSMUSG00 000030111	alpha-2-macroglobulin Source MGI Symbol Acc MGI 2449119
A02	UPFM100791 3	ENSMUST00000 030010.3	Abca1	ENSMUSG00 000015243	ATP-binding cassette, sub-family A (ABC1), member 1 Source MGI Symbol Acc MGI 99607
A03	UPFM076893 3	ENSMUST00000 196208.4	Ache	ENSMUSG00 000023328	acetylcholinesterase Source MGI Symbol Acc MGI 87876
A04	UPFM074237 6	ENSMUST00000 208247.2	Adam9	ENSMUSG00 000031555	a disintegrin and metallopeptidase domain 9 (meltrin gamma) Source MGI Symbol Acc MGI 105376
A05	UPFM069253 5	ENSMUST00000 025830.8	Apba1	ENSMUSG00 000024897	amyloid beta (A4) precursor protein binding, family A, member 1 Source MGI Symbol Acc MGI 1860297
A06	UPFM090995 1	ENSMUST00000 217754.1	Apba3	ENSMUSG00 000004931	amyloid beta (A4) precursor protein-binding, family A, member 3 Source MGI Symbol Acc MGI 1888527
A07	UPFM088142 1	ENSMUST00000 189265.6	Apbb1	ENSMUSG00 000037032	amyloid beta (A4) precursor protein-binding, family B, member 1 Source MGI Symbol Acc MGI 107765
A08	UPFM081108 2	ENSMUST00000 162955.7	Apbb2	ENSMUSG00 000029207	amyloid beta (A4) precursor protein-binding, family B, member 2 Source MGI Symbol Acc MGI 108405
A09	UPFM089257 9	ENSMUST00000 197081.1	Aph1a	ENSMUSG00 000015750	aph1 homolog A, gamma secretase subunit Source MGI Symbol Acc MGI 2385110
A10	UPFM074751 2	ENSMUST00000 208792.1	Aplp1	ENSMUSG00 000006651	amyloid beta (A4) precursor-like protein 1 Source MGI Symbol Acc MGI 88046
A11	UPFM086935 2	ENSMUST00000 079758.8	Aplp2	ENSMUSG00 000031996	amyloid beta (A4) precursor-like protein 2 Source MGI Symbol Acc MGI 88047
A12	UPFM082788 5	ENSMUST00000 034588.8	Apoa1	ENSMUSG00 000032083	apolipoprotein A-I Source MGI Symbol Acc MGI 88049
B01	UPFM092642 1	ENSMUST00000 172808.1	ApoE	ENSMUSG00 000002985	apolipoprotein E Source MGI Symbol Acc MGI 88057
B02	UPFM081516 9	ENSMUST00000 227723.1	App	ENSMUSG00 000022892	amyloid beta (A4) precursor protein Source MGI Symbol Acc MGI 88059
B03	UPFM075797 6	ENSMUST00000 162559.1	Bace1	ENSMUSG00 000032086	beta-site APP cleaving enzyme 1 Source MGI Symbol Acc MGI 1346542
B04	UPFM094633 3	ENSMUST00000 047275.7	Bace2	ENSMUSG00 000040605	beta-site APP-cleaving enzyme 2 Source MGI Symbol Acc MGI 1860440
B05	UPFM099938 5	ENSMUST00000 029367.5	Bche	ENSMUSG00 000027792	butyrylcholinesterase Source MGI Symbol Acc MGI 894278
B06	UPFM085815 5	ENSMUST00000 111049.8	Bdnf	ENSMUSG00 000048482	brain derived neurotrophic factor Source MGI Symbol Acc MGI 88145
B07	UPFM072895 1	ENSMUST00000 210534.1	Casp3	ENSMUSG00 000031628	caspase 3 Source MGI Symbol Acc MGI 107739
B08	UPFM090558 9	ENSMUST00000 160064.7	Casp4	ENSMUSG00 000033538	caspase 4, apoptosis-related cysteine peptidase Source MGI Symbol Acc MGI 107700
B09	UPFM081094 4	ENSMUST00000 152448.1	Cdk1	ENSMUSG00 000019942	cyclin-dependent kinase 1 Source MGI Symbol Acc MGI 88351
B10	UPFM089556 8	ENSMUST00000 030814.10	Cdk5	ENSMUSG00 000028969	cyclin-dependent kinase 5 Source MGI Symbol Acc MGI 101765
B11	UPFM069851 9	ENSMUST00000 021377.4	Cdkl1	ENSMUSG00 000020990	cyclin-dependent kinase-like 1 (CDC2-related kinase) Source MGI Symbol Acc MGI 1918341
B12	UPFM083998 5	ENSMUST00000 070125.5	Chat	ENSMUSG00 000021919	choline acetyltransferase Source MGI Symbol Acc MGI 88392
C01	UPFM093808 7	ENSMUST00000 153460.7	Clu	ENSMUSG00 000022037	clusterin Source MGI Symbol Acc MGI 88423
C02	UPFM062902 6	ENSMUST00000 006235.8	Ctsb	ENSMUSG00 000021939	cathepsin B Source MGI Symbol Acc MGI 88561
C03	UPFM072721 9	ENSMUST00000 128791.1	Ctsc	ENSMUSG00 000030560	cathepsin C Source MGI Symbol Acc MGI 109553
C04	UPFM096800 2	ENSMUST00000 153679.1	Ctsd	ENSMUSG00 000007891	cathepsin D Source MGI Symbol Acc MGI 88562
C05	UPFM080277 7	ENSMUST00000 225312.1	Ctsg	ENSMUSG00 000040314	cathepsin G Source MGI Symbol Acc MGI 88563
C06	UPFM090433 9	ENSMUST00000 222971.1	Ctsl	ENSMUSG00 000021477	cathepsin L Source MGI Symbol Acc MGI 88564
C07	UPFM063958 2	ENSMUST00000 185967.2	Ep300	ENSMUSG00 000055024	E1A binding protein p300 Source MGI Symbol Acc MGI 1276116
C08	UPFM067022 2	ENSMUST00000 001059.8	Ern1	ENSMUSG00 000020715	endoplasmic reticulum (ER) to nucleus signalling 1 Source MGI Symbol Acc MGI 1930134
C09	UPFM100729 0	ENSMUST00000 102817.4	Gap43	ENSMUSG00 000047261	growth associated protein 43 Source MGI Symbol Acc MGI 95639
C10	UPFM062385 4	ENSMUST00000 155245.1	Gnao1	ENSMUSG00 000031748	guanine nucleotide binding protein, alpha O Source MGI Symbol Acc MGI 95775
	UPFM093899	ENSMUST00000		ENSMUSG00	guanine nucleotide binding protein, alpha z subunit Source MGI Symbol Acc

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	9	159991.1	Gnaz	000040009	MGI 95780
C12	UPFM099666 8	ENSMUST00000 176308.1	Gnb1	ENSMUSG00 000029064	guanine nucleotide binding protein (G protein), beta 1 Source MGI Symbol Acc MGI 95781
D01	UPFM083366 2	ENSMUST00000 140139.1	Gnb2	ENSMUSG00 000029713	guanine nucleotide binding protein (G protein), beta 2 Source MGI Symbol Acc MGI 95784
D02	UPFM089010 3	ENSMUST00000 193050.1	Gnb4	ENSMUSG00 000027669	guanine nucleotide binding protein (G protein), beta 4 Source MGI Symbol Acc MGI 104581
D03	UPFM080038 0	ENSMUST00000 216290.1	Gnb5	ENSMUSG00 000032192	guanine nucleotide binding protein (G protein), beta 5 Source MGI Symbol Acc MGI 101848
D04	UPFM064541 9	ENSMUST00000 126507.1	Gng10	ENSMUSG00 000038607	guanine nucleotide binding protein (G protein), gamma 10 Source MGI Symbol Acc MGI 1336169
D05	UPFM081473 3	ENSMUST00000 031670.9	Gng11	ENSMUSG00 000032766	guanine nucleotide binding protein (G protein), gamma 11 Source MGI Symbol Acc MGI 1913316
D06	UPFM092858 8	ENSMUST00000 096259.5	Gng3	ENSMUSG00 000071658	guanine nucleotide binding protein (G protein), gamma 3 Source MGI Symbol Acc MGI 102704
D07	UPFM078906 4	ENSMUST00000 138783.7	Gng4	ENSMUSG00 000021303	guanine nucleotide binding protein (G protein), gamma 4 Source MGI Symbol Acc MGI 102703
D08	UPFM086134 5	ENSMUST00000 119130.1	Gng5	ENSMUSG00 000068523	guanine nucleotide binding protein (G protein), gamma 5 Source MGI Symbol Acc MGI 109164
D09	UPFM076360 5	ENSMUST00000 118465.7	Gng7	ENSMUSG00 000048240	guanine nucleotide binding protein (G protein), gamma 7 Source MGI Symbol Acc MGI 95787
D10	UPFM092282 5	ENSMUST00000 205716.1	Gng8	ENSMUSG00 000063594	guanine nucleotide binding protein (G protein), gamma 8 Source MGI Symbol Acc MGI 109163
D11	UPFM075091 9	ENSMUST00000 031673.6	Gngt1	ENSMUSG00 000029663	guanine nucleotide binding protein (G protein), gamma transducing activity polypeptide 1 Source MGI Symbol Acc MGI 109165
D12	UPFM089318 6	ENSMUST00000 036088.10	Gngt2	ENSMUSG00 000038811	guanine nucleotide binding protein (G protein), gamma transducing activity polypeptide 2 Source MGI Symbol Acc MGI 893584
E01	UPFM096169 6	ENSMUST00000 206654.1	Gsk3a	ENSMUSG00 000057177	glycogen synthase kinase 3 alpha Source MGI Symbol Acc MGI 2152453
E02	UPFM098687 7	ENSMUST00000 114750.1	Gsk3b	ENSMUSG00 000022812	glycogen synthase kinase 3 beta Source MGI Symbol Acc MGI 1861437
E03	UPFM072383 3	ENSMUST00000 026289.9	Hsd17b10	ENSMUSG00 000025260	hydroxysteroid (17-beta) dehydrogenase 10 Source MGI Symbol Acc MGI 1333871
E04	UPFM079176 0	ENSMUST00000 154308.1	Ide	ENSMUSG00 000056999	insulin degrading enzyme Source MGI Symbol Acc MGI 96412
E05	UPFM080008 1	ENSMUST00000 000033.11	Igf2	ENSMUSG00 000048583	insulin-like growth factor 2 Source MGI Symbol Acc MGI 96434
E06	UPFM090388 7	ENSMUST00000 028882.1	Il1a	ENSMUSG00 000027399	interleukin 1 alpha Source MGI Symbol Acc MGI 96542
E07	UPFM062502 4	ENSMUST00000 207100.1	Insr	ENSMUSG00 000005534	insulin receptor Source MGI Symbol Acc MGI 96575
E08	UPFM082678 7	ENSMUST00000 169749.1	Lpl	ENSMUSG00 000015568	lipoprotein lipase Source MGI Symbol Acc MGI 96820
E09	UPFM091844 4	ENSMUST00000 121829.7	Lrp1	ENSMUSG00 000040249	low density lipoprotein receptor-related protein 1 Source MGI Symbol Acc MGI 96828
E10	UPFM074162 7	ENSMUST00000 126836.3	Lrp6	ENSMUSG00 000030201	low density lipoprotein receptor-related protein 6 Source MGI Symbol Acc MGI 1298218
E11	UPFM062628 0	ENSMUST00000 135022.1	Lrp8	ENSMUSG00 000028613	low density lipoprotein receptor-related protein 8, apolipoprotein e receptor Source MGI Symbol Acc MGI 1340044
E12	UPFM065360 3	ENSMUST00000 106988.7	Mapt	ENSMUSG00 000018411	microtubule-associated protein tau Source MGI Symbol Acc MGI 97180
F01	UPFM097324 1	ENSMUST00000 121303.7	Mpo	ENSMUSG00 000009350	myeloperoxidase Source MGI Symbol Acc MGI 97137
F02	UPFM068287 5	ENSMUST00000 151423.8	Map2	ENSMUSG00 000015222	microtubule-associated protein 2 Source MGI Symbol Acc MGI 97175
F03	UPFM079955 4	ENSMUST00000 162466.7	Nae1	ENSMUSG00 000031878	NEDD8 activating enzyme E1 subunit 1 Source MGI Symbol Acc MGI 2384561
F04	UPFM083136 1	ENSMUST00000 142825.1	Ncstn	ENSMUSG00 000003458	nicastatin Source MGI Symbol Acc MGI 1891700
F05	UPFM081636 9	ENSMUST00000 112577.7	Pkp4	ENSMUSG00 000026991	plakophilin 4 Source MGI Symbol Acc MGI 109281
F06	UPFM093204 7	ENSMUST00000 033941.6	Plat	ENSMUSG00 000031538	plasminogen activator, tissue Source MGI Symbol Acc MGI 97610
F07	UPFM083661 6	ENSMUST00000 224141.1	Plau	ENSMUSG00 000021822	plasminogen activator, urokinase Source MGI Symbol Acc MGI 97611
F08	UPFM080537 4	ENSMUST00000 232767.1	Plg	ENSMUSG00 000059481	plasminogen Source MGI Symbol Acc MGI 97620
F09	UPFM091650 2	ENSMUST00000 100302.3	Prkca	ENSMUSG00 000050965	protein kinase C, alpha Source MGI Symbol Acc MGI 97595
F10	UPFM080540 4	ENSMUST00000 143692.7	Prkcb	ENSMUSG00 000052889	protein kinase C, beta Source MGI Symbol Acc MGI 97596

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM065985 0	ENSMUST00000 100301.10	Prkcg	ENSMUSG00 000078816	protein kinase C, gamma Source MGI Symbol Acc MGI 97597
F12	UPFM081230 3	ENSMUST00000 135714.2	Prkcd	ENSMUSG00 000021948	protein kinase C, delta Source MGI Symbol Acc MGI 97598
G01	UPFM068206 2	ENSMUST00000 136986.1	Prkce	ENSMUSG00 000045038	protein kinase C, epsilon Source MGI Symbol Acc MGI 97599
G02	UPFM068549 4	ENSMUST00000 130238.1	Prkci	ENSMUSG00 000037643	protein kinase C, iota Source MGI Symbol Acc MGI 99260
G03	UPFM087214 7	ENSMUST00000 114853.7	Prkcq	ENSMUSG00 000026778	protein kinase C, theta Source MGI Symbol Acc MGI 97601
G04	UPFM080960 6	ENSMUST00000 105624.1	Prkcz	ENSMUSG00 000029053	protein kinase C, zeta Source MGI Symbol Acc MGI 97602
G05	UPFM091676 0	ENSMUST00000 101225.1	Psen1	ENSMUSG00 000019969	presenilin 1 Source MGI Symbol Acc MGI 1202717
G06	UPFM063812 7	ENSMUST00000 111106.7	Psen2	ENSMUSG00 000010609	presenilin 2 Source MGI Symbol Acc MGI 109284
G07	UPFM075542 1	ENSMUST00000 085050.3	Serpina3c	ENSMUSG00 000066361	serine (or cysteine) peptidase inhibitor, clade A, member 3C Source MGI Symbol Acc MGI 102848
G08	UPFM064366 2	ENSMUST00000 163779.7	Snca	ENSMUSG00 000025889	synuclein, alpha Source MGI Symbol Acc MGI 1277151
G09	UPFM096076 4	ENSMUST00000 134110.1	Sncb	ENSMUSG00 000034891	synuclein, beta Source MGI Symbol Acc MGI 1889011
G10	UPFM072312 6	ENSMUST00000 076454.7	Ubqln1	ENSMUSG00 000005312	ubiquilin 1 Source MGI Symbol Acc MGI 1860276
G11	UPFM078769 6	ENSMUST00000 026743.13	Uqcrc1	ENSMUSG00 000025651	ubiquinol-cytochrome c reductase core protein 1 Source MGI Symbol Acc MGI 107876
G12	UPFM099127 8	ENSMUST00000 208400.1	Uqcrc2	ENSMUSG00 000030884	ubiquinol cytochrome c reductase core protein 2 Source MGI Symbol Acc MGI 1914253
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.