

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

Mouse Alzheimer's Disease

Cat. no. 249950 SBMM-057ZR

For study focus gene expression analysis

Shipping and storage

QuantiNova LNA PCR Focus Panels are shipped at ambient temperature. Immediately upon receipt, they should be stored 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 PCR Focus Panels should be used together with the QuantiNova Reverse Transcription Kit for cDNA synthesis and the QuantiNova SYBR® Green PCR Kit (Mastermix) for PCR.

Panel layout (Rotor-Gene): QuantiNova LNA 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 PCR System 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	Sncb	Ubqln1	Uqcrc1	Uqcrc2
H	Actb	B2m	Gapdh	Gusb	Hsp90ab1	MGDC	QIC	QIC	QIC	PPC	PPC	PPC

Gene table: QuantiNova LNA PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	SBM1038708	ENSMUST00000032203.8	A2m	ENSMUSG0000030111	alpha-2-macroglobulin Source MGI Symbol Acc MGI 2449119
A02	SBM1010551	ENSMUST00000030010.3	Abca1	ENSMUSG0000015243	ATP-binding cassette, sub-family A (ABC1), member 1 Source MGI Symbol Acc MGI 99607
A03	SBM0993196	ENSMUST00000196208.4	Ache	ENSMUSG0000023328	acetylcholinesterase Source MGI Symbol Acc MGI 87876
A04	SBM1016991	ENSMUST00000207132.1	Adam9	ENSMUSG0000031555	a disintegrin and metallopeptidase domain 9 (meltrin gamma) Source MGI Symbol Acc MGI 105376
A05	SBM0878467	ENSMUST00000237688.1	Apba1	ENSMUSG0000024897	amyloid beta (A4) precursor protein binding, family A, member 1 Source MGI Symbol Acc MGI 1860297
A06	SBM0711169	ENSMUST00000218146.1	Apba3	ENSMUSG0000004931	amyloid beta (A4) precursor protein-binding, family A, member 3 Source MGI Symbol Acc MGI 1888527
A07	SBM0843526	ENSMUST00000189378.6	Apbb1	ENSMUSG0000037032	amyloid beta (A4) precursor protein-binding, family B, member 1 Source MGI Symbol Acc MGI 107765
A08	SBM0986334	ENSMUST00000161771.1	Apbb2	ENSMUSG0000029207	amyloid beta (A4) precursor protein-binding, family B, member 2 Source MGI Symbol Acc MGI 108405
A09	SBM0812403	ENSMUST00000197232.1	Aph1a	ENSMUSG0000015750	aph1 homolog A, gamma secretase subunit Source MGI Symbol Acc MGI 2385110
A10	SBM1046595	ENSMUST00000207514.1	Aplp1	ENSMUSG0000006651	amyloid beta (A4) precursor-like protein 1 Source MGI Symbol Acc MGI 88046
A11	SBM0710118	ENSMUST00000072634.14	Aplp2	ENSMUSG0000031996	amyloid beta (A4) precursor-like protein 2 Source MGI Symbol Acc MGI 88047
A12	SBM0916212	ENSMUST00000132155.1	Apoa1	ENSMUSG0000032083	apolipoprotein A-I Source MGI Symbol Acc MGI 88049
B01	SBM0912771	ENSMUST00000173739.7	ApoE	ENSMUSG0000002985	apolipoprotein E Source MGI Symbol Acc MGI 88057
B02	SBM0970132	ENSMUST00000226801.1	App	ENSMUSG0000022892	amyloid beta (A4) precursor protein Source MGI Symbol Acc MGI 88059
B03	SBM0697581	ENSMUST00000034591.10	Bace1	ENSMUSG0000032086	beta-site APP cleaving enzyme 1 Source MGI Symbol Acc MGI 1346542
B04	SBM0884750	ENSMUST00000231664.1	Bace2	ENSMUSG0000040605	beta-site APP-cleaving enzyme 2 Source MGI Symbol Acc MGI 1860440
B05	SBM0983575	ENSMUST00000029367.5	Bche	ENSMUSG0000027792	butyrylcholinesterase Source MGI Symbol Acc MGI 894278
B06	SBM0985592	ENSMUST00000111042.2	Bdnf	ENSMUSG0000048482	brain derived neurotrophic factor Source MGI Symbol Acc MGI 88145
B07	SBM0732165	ENSMUST00000093517.6	Casp3	ENSMUSG0000031628	caspase 3 Source MGI Symbol Acc MGI 107739
B08	SBM0716005	ENSMUST00000160064.7	Casp4	ENSMUSG0000033538	caspase 4, apoptosis-related cysteine peptidase Source MGI Symbol Acc MGI 107700
B09	SBM0979951	ENSMUST00000129444.7	Cdk1	ENSMUSG0000019942	cyclin-dependent kinase 1 Source MGI Symbol Acc MGI 88351
B10	SBM0737657	ENSMUST00000198990.1	Cdk5	ENSMUSG0000028969	cyclin-dependent kinase 5 Source MGI Symbol Acc MGI 101765
B11	SBM1218406	ENSMUST00000021377.4	Cdkl1	ENSMUSG0000020990	cyclin-dependent kinase-like 1 (CDC2-related kinase) Source MGI Symbol Acc MGI 1918341
B12	SBM0804867	ENSMUST00000070125.5	Chat	ENSMUSG0000021919	choline acetyltransferase Source MGI Symbol Acc MGI 88392
C01	SBM0933901	ENSMUST00000153460.7	Clu	ENSMUSG0000022037	clusterin Source MGI Symbol Acc MGI 88423
C02	SBM0677916	ENSMUST00000225540.1	Ctsb	ENSMUSG0000021939	cathepsin B Source MGI Symbol Acc MGI 88561
C03	SBM0692315	ENSMUST00000139159.1	Ctsc	ENSMUSG0000030560	cathepsin C Source MGI Symbol Acc MGI 109553
C04	SBM0731741	ENSMUST00000151120.8	Ctsd	ENSMUSG0000007891	cathepsin D Source MGI Symbol Acc MGI 88562
C05	SBM0791036	ENSMUST00000225312.1	Ctsg	ENSMUSG0000040314	cathepsin G Source MGI Symbol Acc MGI 88563
C06	SBM1071990	ENSMUST00000222462.1	Ctsl	ENSMUSG0000021477	cathepsin L Source MGI Symbol Acc MGI 88564
C07	SBM1065431	ENSMUST00000190035.1	Ep300	ENSMUSG0000055024	E1A binding protein p300 Source MGI Symbol Acc MGI 1276116
C08	SBM0697402	ENSMUST00000106800.1	Ern1	ENSMUSG0000020715	endoplasmic reticulum (ER) to nucleus signalling 1 Source MGI Symbol Acc MGI 1930134
C09	SBM0852061	ENSMUST00000102817.4	Gap43	ENSMUSG0000047261	growth associated protein 43 Source MGI Symbol Acc MGI 95639
C10	SBM0956539	ENSMUST00000034198.14	Gnao1	ENSMUSG0000031748	guanine nucleotide binding protein, alpha O Source MGI Symbol Acc MGI 95775
		ENSMUST000000		ENSMUSG00	guanine nucleotide binding protein, alpha z subunit Source MGI Symbol Acc

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM1029312	037813.4	Gnaz	000040009	MGI 95780
C12	SBM1080485	ENSMUST00000165335.7	Gnb1	ENSMUSG0000029064	guanine nucleotide binding protein (G protein), beta 1 Source MGI Symbol Acc MGI 95781
D01	SBM0849295	ENSMUST00000125868.1	Gnb2	ENSMUSG0000029713	guanine nucleotide binding protein (G protein), beta 2 Source MGI Symbol Acc MGI 95784
D02	SBM1040557	ENSMUST00000193050.1	Gnb4	ENSMUSG0000027669	guanine nucleotide binding protein (G protein), beta 4 Source MGI Symbol Acc MGI 104581
D03	SBM0802046	ENSMUST00000213990.1	Gnb5	ENSMUSG0000032192	guanine nucleotide binding protein (G protein), beta 5 Source MGI Symbol Acc MGI 101848
D04	SBM0908888	ENSMUST00000041160.12	Gng10	ENSMUSG0000038607	guanine nucleotide binding protein (G protein), gamma 10 Source MGI Symbol Acc MGI 1336169
D05	SBM0887917	ENSMUST00000031670.9	Gng11	ENSMUSG0000032766	guanine nucleotide binding protein (G protein), gamma 11 Source MGI Symbol Acc MGI 1913316
D06	SBM1039557	ENSMUST00000096259.5	Gng3	ENSMUSG0000071658	guanine nucleotide binding protein (G protein), gamma 3 Source MGI Symbol Acc MGI 102704
D07	SBM1077202	ENSMUST00000138783.7	Gng4	ENSMUSG0000021303	guanine nucleotide binding protein (G protein), gamma 4 Source MGI Symbol Acc MGI 102703
D08	SBM0734377	ENSMUST00000090031.11	Gng5	ENSMUSG0000068523	guanine nucleotide binding protein (G protein), gamma 5 Source MGI Symbol Acc MGI 109164
D09	SBM0964161	ENSMUST00000118465.7	Gng7	ENSMUSG0000048240	guanine nucleotide binding protein (G protein), gamma 7 Source MGI Symbol Acc MGI 95787
D10	SBM0930206	ENSMUST00000205716.1	Gng8	ENSMUSG0000063594	guanine nucleotide binding protein (G protein), gamma 8 Source MGI Symbol Acc MGI 109163
D11	SBM1090969	ENSMUST00000031673.6	Gngt1	ENSMUSG0000029663	guanine nucleotide binding protein (G protein), gamma transducing activity polypeptide 1 Source MGI Symbol Acc MGI 109165
D12	SBM0846263	ENSMUST00000107709.7	Gngt2	ENSMUSG0000038811	guanine nucleotide binding protein (G protein), gamma transducing activity polypeptide 2 Source MGI Symbol Acc MGI 893584
E01	SBM0806019	ENSMUST00000071739.11	Gsk3a	ENSMUSG0000057177	glycogen synthase kinase 3 alpha Source MGI Symbol Acc MGI 2152453
E02	SBM0862470	ENSMUST00000132057.1	Gsk3b	ENSMUSG0000022812	glycogen synthase kinase 3 beta Source MGI Symbol Acc MGI 1861437
E03	SBM0912931	ENSMUST00000151200.7	Hsd17b10	ENSMUSG0000025260	hydroxysteroid (17-beta) dehydrogenase 10 Source MGI Symbol Acc MGI 1333871
E04	SBM0695040	ENSMUST00000154339.7	Ide	ENSMUSG0000056999	insulin degrading enzyme Source MGI Symbol Acc MGI 96412
E05	SBM0905480	ENSMUST00000121128.7	Igf2	ENSMUSG0000048583	insulin-like growth factor 2 Source MGI Symbol Acc MGI 96434
E06	SBM1007460	ENSMUST00000028882.1	Il1a	ENSMUSG0000027399	interleukin 1 alpha Source MGI Symbol Acc MGI 96542
E07	SBM1013137	ENSMUST00000207100.1	Insr	ENSMUSG0000005534	insulin receptor Source MGI Symbol Acc MGI 96575
E08	SBM1060657	ENSMUST00000015712.14	Lpl	ENSMUSG0000015568	lipoprotein lipase Source MGI Symbol Acc MGI 96820
E09	SBM1037164	ENSMUST00000125480.1	Lrp1	ENSMUSG0000040249	low density lipoprotein receptor-related protein 1 Source MGI Symbol Acc MGI 96828
E10	SBM0842955	ENSMUST00000203773.1	Lrp6	ENSMUSG0000030201	low density lipoprotein receptor-related protein 6 Source MGI Symbol Acc MGI 1298218
E11	SBM0725336	ENSMUST00000030356.9	Lrp8	ENSMUSG0000028613	low density lipoprotein receptor-related protein 8, apolipoprotein e receptor Source MGI Symbol Acc MGI 1340044
E12	SBM1092220	ENSMUST00000106992.9	Mapt	ENSMUSG0000018411	microtubule-associated protein tau Source MGI Symbol Acc MGI 97180
F01	SBM1011865	ENSMUST00000107930.2	Mpo	ENSMUSG0000009350	myeloperoxidase Source MGI Symbol Acc MGI 97137
F02	SBM0967978	ENSMUST00000123647.7	Map2	ENSMUSG0000015222	microtubule-associated protein 2 Source MGI Symbol Acc MGI 97175
F03	SBM0835549	ENSMUST00000161474.1	Nae1	ENSMUSG0000031878	NEDD8 activating enzyme E1 subunit 1 Source MGI Symbol Acc MGI 2384561
F04	SBM0957404	ENSMUST00000003550.10	Ncstn	ENSMUSG0000003458	nicastatin Source MGI Symbol Acc MGI 1891700
F05	SBM0722117	ENSMUST00000168631.7	Plk4	ENSMUSG0000026991	plakophilin 4 Source MGI Symbol Acc MGI 109281
F06	SBM0722468	ENSMUST00000033941.6	Plat	ENSMUSG0000031538	plasminogen activator, tissue Source MGI Symbol Acc MGI 97610
F07	SBM0733272	ENSMUST00000224141.1	Plau	ENSMUSG0000021822	plasminogen activator, urokinase Source MGI Symbol Acc MGI 97611
F08	SBM0836626	ENSMUST00000014578.6	Plg	ENSMUSG0000059481	plasminogen Source MGI Symbol Acc MGI 97620
F09	SBM0890328	ENSMUST00000100302.3	Prkca	ENSMUSG0000050965	protein kinase C, alpha Source MGI Symbol Acc MGI 97595
F10	SBM0696479	ENSMUST00000064921.4	Prkcb	ENSMUSG0000052889	protein kinase C, beta Source MGI Symbol Acc MGI 97596

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM1062071	ENSMUST00000100301.10	Prkcg	ENSMUSG0000078816	protein kinase C, gamma Source MGI Symbol Acc MGI 97597
F12	SBM0672668	ENSMUST00000135714.2	Prkcd	ENSMUSG0000021948	protein kinase C, delta Source MGI Symbol Acc MGI 97598
G01	SBM0773765	ENSMUST00000150486.1	Prkce	ENSMUSG0000045038	protein kinase C, epsilon Source MGI Symbol Acc MGI 97599
G02	SBM0705298	ENSMUST00000108249.8	Prkci	ENSMUSG0000037643	protein kinase C, iota Source MGI Symbol Acc MGI 99260
G03	SBM0873217	ENSMUST00000195628.1	Prkcq	ENSMUSG0000026778	protein kinase C, theta Source MGI Symbol Acc MGI 97601
G04	SBM0723762	ENSMUST00000139647.7	Prkcz	ENSMUSG0000029053	protein kinase C, zeta Source MGI Symbol Acc MGI 97602
G05	SBM0767761	ENSMUST00000101225.1	Psen1	ENSMUSG0000019969	presenilin 1 Source MGI Symbol Acc MGI 1202717
G06	SBM0822272	ENSMUST00000130711.7	Psen2	ENSMUSG0000010609	presenilin 2 Source MGI Symbol Acc MGI 109284
G07	SBM0966169	ENSMUST00000085050.3	Serpina3c	ENSMUSG0000066361	serine (or cysteine) peptidase inhibitor, clade A, member 3C Source MGI Symbol Acc MGI 102848
G08	SBM1045894	ENSMUST00000163779.7	Snca	ENSMUSG0000025889	synuclein, alpha Source MGI Symbol Acc MGI 1277151
G09	SBM0869213	ENSMUST00000036825.13	Sncb	ENSMUSG0000034891	synuclein, beta Source MGI Symbol Acc MGI 1889011
G10	SBM1023793	ENSMUST00000058735.11	Ubqln1	ENSMUSG0000005312	ubiquilin 1 Source MGI Symbol Acc MGI 1860276
G11	SBM0827054	ENSMUST00000195387.1	Uqcrc1	ENSMUSG0000025651	ubiquinol-cytochrome c reductase core protein 1 Source MGI Symbol Acc MGI 107876
G12	SBM0962384	ENSMUST00000123704.8	Uqcrc2	ENSMUSG0000030884	ubiquinol cytochrome c reductase core protein 2 Source MGI Symbol Acc MGI 1914253
H01	SBM1220560	ENSMUST00000100497.10	Actb	ENSMUSG0000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	SBM0675336	ENSMUST00000102476.4	B2m	ENSMUSG0000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	SBM1220562	ENSMUST00000117757.8	Gapdh	ENSMUSG0000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	SBM1220563	ENSMUST00000026613.13	Gusb	ENSMUSG0000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	SBM1220564	ENSMUST00000166469.7	Hsp90ab1	ENSMUSG0000023944	heat shock protein 90 alpha (cytosolic), class B member 1 Source MGI Symbol Acc MGI 96247
H06	SBM1218554	Sybr_MGDC	MGDC	Sybr_MGDC	Mouse Genomic DNA Contamination
H07	SBH1218551	Sybr_QIC	QIC	Sybr_QIC	QuantiNova Internal Control
H08	SBH1218551	Sybr_QIC	QIC	Sybr_QIC	QuantiNova Internal Control
H09	SBH1218551	Sybr_QIC	QIC	Sybr_QIC	QuantiNova Internal Control
H10	SBH1218550	Sybr_PPC	PPC	Sybr_PPC	Positive PCR Control
H11	SBH1218550	Sybr_PPC	PPC	Sybr_PPC	Positive PCR Control
H12	SBH1218550	Sybr_PPC	PPC	Sybr_PPC	Positive PCR Control

Related products

Product	Contents	Cat. no.
QuantiNova LNA PCR QC Panel	These panels are designed to assess the quality of RNA samples before characterization using QuantiNova LNA PCR Focus Panels; available in 96-well, 384-well, and Rotor-Disc 100 formats	249940
QuantiNova Reverse Transcription Kit (10)*	For 10 x 20 µl reactions: 20 µl 8x gDNA Removal Mix, 10 µl Reverse Transcription Enzyme, 40 µl Reverse Transcription Mix (containing RT primers), 20 µl Internal Control RNA, 1.9 ml RNase-Free Water	205410
QuantiNova SYBR Green RT-PCR Kit (100)*	For 100 x 20 µl reactions: 1 ml QuantiNova SYBR Green RT-PCR Master Mix, 20 µl QuantiNova SYBR Green RT Mix, 20 µl Internal Control RNA, 500 µl Yellow Template Dilution Buffer, 250 µl ROX Reference Dye, 1.9 µl RNase-Free Water	208152
QuantiNova SYBR Green PCR Kit (100)*	For 100 x 20 µl reactions: 1 ml 2x QuantiNova SYBR Green PCR Master Mix, 500 µl QuantiNova Yellow Template Dilution Buffer, 250 µl QN ROX Reference Dye, 1.9 ml Water	208052

*Larger kit sizes available.

The QuantiNova LNA 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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