

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

Mouse Aging

Cat. no. 249950 SBMM-178ZR

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	Angel2	Anxa3	Anxa5	Arid1a	Arl6ip6	Bub1b	C1qa	C1qb	C1qc	C1s1	C3	C3ar1
B	C4a	C4b	C5ar1	Calb1	Casp1	Ccr1	Cd14	Cd163	Cdkn1c	Cfh	Cfhr1	Clu
C	Cx3d1	Cxcl16	Elav1	Elp3	Em11	Ep300	Fbxl16	Fcer1g	Fcgbp	Fcgr1	Fcgr2b	Fcgr3
D	Foxo1	Gfap	Gsta1	Hsf1	Jakmip3	Lmna	Lmnb1	Lmnb2	Lsm5	Lif	Mbp	Mrp143
E	Ndufb11	Panx1	Pdcd6	Phf3	Polrmt	Pot1a	Rap1a	Rnf144b	S100a8	S100a9	Scn2b	Sirt1
F	Sirt3	Sirt6	Smad2	Snap23	Terf1	Terf2	Tfam	Tfb1m	Tfb2m	Tinf2	Tlr2	Tlr4
G	Tmem135	Tmem33	Tollip	Tpp1	Txnip	Vps13c	Vwa5a	Wrm	Zbtb10	Zfp9	Zfr	Zmpste24
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	SBM1020786	ENSMUST00000110899.6	Angel2	ENSMUSG0000026634	angel homolog 2 Source MGI Symbol Acc MGI 1196310
A02	SBM1092778	ENSMUST00000198631.1	Anxa3	ENSMUSG0000029484	annexin A3 Source MGI Symbol Acc MGI 1201378
A03	SBM1073515	ENSMUST00000199478.1	Anxa5	ENSMUSG0000027712	annexin A5 Source MGI Symbol Acc MGI 106008
A04	SBM0764700	ENSMUST00000145664.8	Arid1a	ENSMUSG0000007880	AT rich interactive domain 1A (SWI-like) Source MGI Symbol Acc MGI 1935147
A05	SBM0841046	ENSMUST00000155517.1	Arl6ip6	ENSMUSG0000026960	ADP-ribosylation factor-like 6 interacting protein 6 Source MGI Symbol Acc MGI 1929507
A06	SBM0719851	ENSMUST00000126013.1	Bub1b	ENSMUSG0000040084	BUB1B, mitotic checkpoint serine/threonine kinase Source MGI Symbol Acc MGI 1333889
A07	SBM1082394	ENSMUST00000046285.5	C1qa	ENSMUSG0000036887	complement component 1, q subcomponent, alpha polypeptide Source MGI Symbol Acc MGI 88223
A08	SBM0834192	ENSMUST00000046384.8	C1qb	ENSMUSG0000036905	complement component 1, q subcomponent, beta polypeptide Source MGI Symbol Acc MGI 88224
A09	SBM1082625	ENSMUST00000046332.5	C1qc	ENSMUSG0000036896	complement component 1, q subcomponent, C chain Source MGI Symbol Acc MGI 88225
A10	SBM0756115	ENSMUST00000159143.1	C1s1	ENSMUSG0000038521	complement component 1, s subcomponent 1 Source MGI Symbol Acc MGI 1355312
A11	SBM0754550	ENSMUST00000024988.14	C3	ENSMUSG0000024164	complement component 3 Source MGI Symbol Acc MGI 88227
A12	SBM0734448	ENSMUST00000042081.8	C3ar1	ENSMUSG0000040552	complement component 3a receptor 1 Source MGI Symbol Acc MGI 1097680
B01	SBM0834073	ENSMUST00000161121.7	C4a	ENSMUSG0000015451	complement component 4A (Rodgers blood group) Source MGI Symbol Acc MGI 98320
B02	SBM0712323	ENSMUST00000173057.1	C4b	ENSMUSG0000073418	complement component 4B (Chido blood group) Source MGI Symbol Acc MGI 88228
B03	SBM0790759	ENSMUST00000209442.1	C5ar1	ENSMUSG0000049130	complement component 5a receptor 1 Source MGI Symbol Acc MGI 88232
B04	SBM1013033	ENSMUST00000029876.1	Calb1	ENSMUSG0000028222	calbindin 1 Source MGI Symbol Acc MGI 88248
B05	SBM0862549	ENSMUST00000027015.5	Casp1	ENSMUSG0000025888	caspase 1 Source MGI Symbol Acc MGI 96544
B06	SBM1015405	ENSMUST00000026911.5	Ccr1	ENSMUSG0000025804	chemokine (C-C motif) receptor 1 Source MGI Symbol Acc MGI 104618
B07	SBM0904854	ENSMUST00000061829.7	Cd14	ENSMUSG0000051439	CD14 antigen Source MGI Symbol Acc MGI 88318
B08	SBM1034175	ENSMUST00000112541.7	Cd163	ENSMUSG0000008845	CD163 antigen Source MGI Symbol Acc MGI 2135946
B09	SBM0762603	ENSMUST00000208137.1	Cdkn1c	ENSMUSG0000037664	cyclin-dependent kinase inhibitor 1C (P57) Source MGI Symbol Acc MGI 104564
B10	SBM1066799	ENSMUST00000123238.1	Cfh	ENSMUSG0000026365	complement component factor h Source MGI Symbol Acc MGI 88385
B11	SBM0938140	ENSMUST00000161224.1	Cfhr1	ENSMUSG0000057037	complement factor H-related 1 Source MGI Symbol Acc MGI 2138169
B12	SBM0933901	ENSMUST00000153460.7	Clu	ENSMUSG0000022037	clusterin Source MGI Symbol Acc MGI 88423
C01	SBM0783722	ENSMUST00000034230.6	Cx3cl1	ENSMUSG0000031778	chemokine (C-X3-C motif) ligand 1 Source MGI Symbol Acc MGI 1097153
C02	SBM0926670	ENSMUST00000019064.8	Cxcl16	ENSMUSG0000018920	chemokine (C-X-C motif) ligand 16 Source MGI Symbol Acc MGI 1932682
C03	SBM0708737	ENSMUST00000098950.5	Elavl1	ENSMUSG0000040028	ELAV (embryonic lethal, abnormal vision)-like 1 (Hu antigen R) Source MGI Symbol Acc MGI 1100851
C04	SBM0824192	ENSMUST00000225355.1	Elp3	ENSMUSG0000022031	elongator acetyltransferase complex subunit 3 Source MGI Symbol Acc MGI 1921445
C05	SBM1030305	ENSMUST00000054955.13	Eml1	ENSMUSG0000058070	echinoderm microtubule associated protein like 1 Source MGI Symbol Acc MGI 1915769
C06	SBM1065431	ENSMUST00000190035.1	Ep300	ENSMUSG0000055024	E1A binding protein p300 Source MGI Symbol Acc MGI 1276116
C07	SBM0786894	ENSMUST00000236165.1	Fbxl16	ENSMUSG0000025738	F-box and leucine-rich repeat protein 16 Source MGI Symbol Acc MGI 2448488
C08	SBM0790940	ENSMUST00000150997.1	Fcer1g	ENSMUSG0000058715	Fc receptor, IgE, high affinity I, gamma polypeptide Source MGI Symbol Acc MGI 95496
C09	SBM1018968	ENSMUST00000138392.7	Fcgbp	ENSMUSG0000047730	Fc fragment of IgG binding protein Source MGI Symbol Acc MGI 2444336
C10	SBM0845170	ENSMUST00000029748.7	Fcgr1	ENSMUSG0000015947	Fc receptor, IgG, high affinity I Source MGI Symbol Acc MGI 95498
		ENSMUST00000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM1074809	027966.13	Fcgr2b	000026656	Fc receptor, IgG, low affinity IIb Source MGI Symbol Acc MGI 95499
C12	SBM0840445	ENSMUST00000169017.7	Fcgr3	ENSMUSG0000059498	Fc receptor, IgG, low affinity III Source MGI Symbol Acc MGI 95500
D01	SBM0795258	ENSMUST00000053764.6	Foxo1	ENSMUSG0000044167	forkhead box O1 Source MGI Symbol Acc MGI 1890077
D02	SBM1028741	ENSMUST00000127909.1	Gfap	ENSMUSG0000020932	glial fibrillary acidic protein Source MGI Symbol Acc MGI 95697
D03	SBM0760940	ENSMUST00000098537.3	Gsta1	ENSMUSG00000074183	glutathione S-transferase, alpha 1 (Ya) Source MGI Symbol Acc MGI 1095417
D04	SBM0680334	ENSMUST00000230069.1	Hsf1	ENSMUSG00000022556	heat shock factor 1 Source MGI Symbol Acc MGI 96238
D05	SBM0892886	ENSMUST00000106111.7	Jakmip3	ENSMUSG0000056856	janus kinase and microtubule interacting protein 3 Source MGI Symbol Acc MGI 1921254
D06	SBM0903585	ENSMUST00000120377.7	Lmna	ENSMUSG0000028063	lamin A Source MGI Symbol Acc MGI 96794
D07	SBM0785575	ENSMUST00000025486.8	Lmnb1	ENSMUSG0000024590	lamin B1 Source MGI Symbol Acc MGI 96795
D08	SBM0898001	ENSMUST00000057623.13	Lmnb2	ENSMUSG00000062075	lamin B2 Source MGI Symbol Acc MGI 96796
D09	SBM0743721	ENSMUST00000203958.1	Lsm5	ENSMUSG00000091625	LSM5 homolog, U6 small nuclear RNA and mRNA degradation associated Source MGI Symbol Acc MGI 1913623
D10	SBM0738797	ENSMUST00000198233.1	Ltf	ENSMUSG00000032496	lactotransferrin Source MGI Symbol Acc MGI 96837
D11	SBM0782483	ENSMUST00000080658.11	Mbp	ENSMUSG00000041607	myelin basic protein Source MGI Symbol Acc MGI 96925
D12	SBM0693068	ENSMUST00000097715.3	Mrpl43	ENSMUSG0000005208	mitochondrial ribosomal protein L43 Source MGI Symbol Acc MGI 2137229
E01	SBM0849091	ENSMUST00000116621.1	Ndufb11	ENSMUSG00000031059	NADH ubiquinone oxidoreductase subunit B11 Source MGI Symbol Acc MGI 1349919
E02	SBM0826801	ENSMUST00000166933.1	Panx1	ENSMUSG00000031934	pannexin 1 Source MGI Symbol Acc MGI 1860055
E03	SBM0866365	ENSMUST00000022060.6	Pcd6	ENSMUSG00000021576	programmed cell death 6 Source MGI Symbol Acc MGI 109283
E04	SBM1002149	ENSMUST00000190190.1	Phf3	ENSMUSG00000048874	PHD finger protein 3 Source MGI Symbol Acc MGI 2446126
E05	SBM1053704	ENSMUST00000161765.7	Polrmt	ENSMUSG00000020329	polymerase (RNA) mitochondrial (DNA directed) Source MGI Symbol Acc MGI 1915843
E06	SBM0956036	ENSMUST00000115330.7	Pot1a	ENSMUSG00000029676	protection of telomeres 1A Source MGI Symbol Acc MGI 2141503
E07	SBM1020520	ENSMUST00000090678.10	Rap1a	ENSMUSG00000068798	RAS-related protein 1a Source MGI Symbol Acc MGI 97852
E08	SBM0882654	ENSMUST00000110111.3	Rnf144b	ENSMUSG00000038068	ring finger protein 144B Source MGI Symbol Acc MGI 2384986
E09	SBM0822839	ENSMUST00000198156.1	S100a8	ENSMUSG00000056054	S100 calcium binding protein A8 (calgranulin A) Source MGI Symbol Acc MGI 88244
E10	SBM0735988	ENSMUST00000117167.1	S100a9	ENSMUSG00000056071	S100 calcium binding protein A9 (calgranulin B) Source MGI Symbol Acc MGI 1338947
E11	SBM1059979	ENSMUST00000170998.8	Scn2b	ENSMUSG00000070304	sodium channel, voltage-gated, type II, beta Source MGI Symbol Acc MGI 106921
E12	SBM1040786	ENSMUST00000020257.12	Sirt1	ENSMUSG00000020063	sirtuin 1 Source MGI Symbol Acc MGI 2135607
F01	SBM0853446	ENSMUST00000211179.1	Sirt3	ENSMUSG00000025486	sirtuin 3 Source MGI Symbol Acc MGI 1927665
F02	SBM0676736	ENSMUST00000143424.1	Sirt6	ENSMUSG00000034748	sirtuin 6 Source MGI Symbol Acc MGI 1354161
F03	SBM1009250	ENSMUST00000165084.7	Smad2	ENSMUSG00000024563	SMAD family member 2 Source MGI Symbol Acc MGI 108051
F04	SBM0726594	ENSMUST00000150611.7	Snap23	ENSMUSG00000027287	synaptosomal-associated protein 23 Source MGI Symbol Acc MGI 109356
F05	SBM1006727	ENSMUST00000027057.7	Terf1	ENSMUSG00000056925	telomeric repeat binding factor 1 Source MGI Symbol Acc MGI 109634
F06	SBM0816096	ENSMUST00000133925.7	Terf2	ENSMUSG00000031921	telomeric repeat binding factor 2 Source MGI Symbol Acc MGI 1195972
F07	SBM0821361	ENSMUST00000121685.7	Tfam	ENSMUSG00000003923	transcription factor A, mitochondrial Source MGI Symbol Acc MGI 107810
F08	SBM0967781	ENSMUST00000041003.7	Tfb1m	ENSMUSG00000036983	transcription factor B1, mitochondrial Source MGI Symbol Acc MGI 2146851
F09	SBM0839251	ENSMUST00000139993.7	Tfb2m	ENSMUSG00000026492	transcription factor B2, mitochondrial Source MGI Symbol Acc MGI 107937
F10	SBM0796156	ENSMUST00000227842.1	Tinf2	ENSMUSG0000007589	Terf1 (TRF1)-interacting nuclear factor 2 Source MGI Symbol Acc MGI 107246

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM0974490	ENSMUST00000029623.10	Tlr2	ENSMUSG0000027995	toll-like receptor 2 Source MGI Symbol Acc MGI 1346060
F12	SBM0745293	ENSMUST00000107365.2	Tlr4	ENSMUSG0000039005	toll-like receptor 4 Source MGI Symbol Acc MGI 96824
G01	SBM1026961	ENSMUST00000117852.7	Tmem135	ENSMUSG0000039428	transmembrane protein 135 Source MGI Symbol Acc MGI 1920009
G02	SBM0706396	ENSMUST00000201979.3	Tmem33	ENSMUSG0000037720	transmembrane protein 33 Source MGI Symbol Acc MGI 1915128
G03	SBM0724694	ENSMUST00000151890.2	Tollip	ENSMUSG0000025139	toll interacting protein Source MGI Symbol Acc MGI 1891808
G04	SBM1039390	ENSMUST00000210730.1	Tpp1	ENSMUSG0000030894	tripeptidyl peptidase I Source MGI Symbol Acc MGI 1336194
G05	SBM1060480	ENSMUST00000049093.7	Txnip	ENSMUSG0000038393	thioredoxin interacting protein Source MGI Symbol Acc MGI 1889549
G06	SBM0784681	ENSMUST00000215524.1	Vps13c	ENSMUSG0000035284	vacuolar protein sorting 13C Source MGI Symbol Acc MGI 2444207
G07	SBM0790636	ENSMUST00000118144.7	Vwa5a	ENSMUSG0000023186	von Willebrand factor A domain containing 5A Source MGI Symbol Acc MGI 1915026
G08	SBM0707429	ENSMUST00000033990.6	Wrrn	ENSMUSG0000031583	Werner syndrome RecQ like helicase Source MGI Symbol Acc MGI 109635
G09	SBM0716557	ENSMUST00000155203.1	Zbtb10	ENSMUSG0000069114	zinc finger and BTB domain containing 10 Source MGI Symbol Acc MGI 2139883
G10	SBM0969620	ENSMUST00000161170.1	Zfp9	ENSMUSG0000072623	zinc finger protein 9 Source MGI Symbol Acc MGI 99210
G11	SBM1065807	ENSMUST00000140787.1	Zfr	ENSMUSG0000022201	zinc finger RNA binding protein Source MGI Symbol Acc MGI 1341890
G12	SBM0741283	ENSMUST00000058754.8	Zmpste24	ENSMUSG0000043207	zinc metalloproteinase, STE24 Source MGI Symbol Acc MGI 1890508
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 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 SYBR Green RT-PCR Kit (100)*	For 100 x 20 μ l reactions: 1 ml QuantiNova SYBR Green RT-PCR Master Mix, 20 μ l QuantiNova SYBR Green 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	208152
QuantiNova SYBR Green PCR Kit (100)*	For 100 x 20 μ l reactions: 1 ml 2x QuantiNova SYBR Green PCR Master Mix, 500 μ l QuantiNova Yellow Template Dilution Buffer, 250 μ l 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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