

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

Mouse AMPK Signaling

Cat. no. 249950 SBMM-175ZA

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 (96-well): QuantiNova LNA PCR Focus Panel

For the 384-well (4 × 96) PCR panels, genes are present in a staggered format. 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	Acaca	Acacb	Adipor1	Adipor2	Adra1a	Adra1b	Adra1d	Adra2a	Adra2b	Adra2c	Akt1	Akt2
B	Akt3	Akt1	Akt2	Akt3	Atg13	Cab39	Camkk1	Camkk2	Chrn1	Chrn1	Cpt1a	Cpt1b
C	Cpt1c	Cpt2	Crtc2	Cry1	Eef2k	Eif4ebp1	Elavl1	Fasn	Foxo3	Gpam	Gpat2	Gys1
D	Gys2	Hmgcr	Hnf4a	Insr	Lepr	Lipe	Mlycd	Mior	Pdpr1	Pikfb1	Pikfb2	Pikfb3
E	Pikfb4	Pnpla2	Ppargc1a	Ppargc1b	Ppp2ca	Ppp2cb	Ppp2r1a	Ppp2r1b	Ppp2r2b	Ptpa	Prkaa1	Prkaa2
F	Prkab1	Prkab2	Prkaa	Prkacb	Prkag1	Prkag2	Prkag3	Prkar1a	Prkar1b	Prkar2a	Prkar2b	Rb1cc1
G	Rps6kb1	Rps6kb2	Rplor	Slc2a4	Sreb1	Sik11	Strada	Stradb	Trp53	Tsc1	Tsc2	Ulk1
H	Actb	B2m	Gapdh	Gusb	Hsp90ab1	MGDC	QIC	QIC	QIC	PPC	PPC	PPC

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM1055473	062211.3	Gpat2	000046338	MGI 2684962
C12	SBM0942563	ENSMUST00000003964.16	Gys1	ENSMUSG0000003865	glycogen synthase 1, muscle Source MGI Symbol Acc MGI 101805
D01	SBM0675330	ENSMUST00000032371.7	Gys2	ENSMUSG00000030244	glycogen synthase 2 Source MGI Symbol Acc MGI 2385254
D02	SBM0852758	ENSMUST00000169196.7	Hmgcr	ENSMUSG00000021670	3-hydroxy-3-methylglutaryl-Coenzyme A reductase Source MGI Symbol Acc MGI 96159
D03	SBM0836445	ENSMUST00000109411.7	Hnf4a	ENSMUSG00000017950	hepatic nuclear factor 4, alpha Source MGI Symbol Acc MGI 109128
D04	SBM1013137	ENSMUST00000207100.1	Insr	ENSMUSG00000005534	insulin receptor Source MGI Symbol Acc MGI 96575
D05	SBM1058375	ENSMUST00000128948.7	Lepr	ENSMUSG00000057722	leptin receptor Source MGI Symbol Acc MGI 104993
D06	SBM1009382	ENSMUST00000003207.10	Lipe	ENSMUSG00000003123	lipase, hormone sensitive Source MGI Symbol Acc MGI 96790
D07	SBM1063186	ENSMUST00000145121.1	Mlycd	ENSMUSG00000074064	malonyl-CoA decarboxylase Source MGI Symbol Acc MGI 1928485
D08	SBM1220565	ENSMUST00000103221.9	Mtor	ENSMUSG00000028991	mechanistic target of rapamycin kinase Source MGI Symbol Acc MGI 1928394
D09	SBM0716432	ENSMUST00000115409.8	Pdpk1	ENSMUSG00000024122	3-phosphoinositide dependent protein kinase 1 Source MGI Symbol Acc MGI 1338068
D10	SBM0802548	ENSMUST00000153221.7	Pfkfb1	ENSMUSG00000025271	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 1 Source MGI Symbol Acc MGI 107816
D11	SBM0808595	ENSMUST00000191301.1	Pfkfb2	ENSMUSG00000026409	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 2 Source MGI Symbol Acc MGI 107815
D12	SBM1083681	ENSMUST00000114844.7	Pfkfb3	ENSMUSG00000026773	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3 Source MGI Symbol Acc MGI 2181202
E01	SBM0678504	ENSMUST00000200229.1	Pfkfb4	ENSMUSG00000025648	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 4 Source MGI Symbol Acc MGI 2687284
E02	SBM0770045	ENSMUST00000169665.7	Pnpla2	ENSMUSG00000025509	patatin-like phospholipase domain containing 2 Source MGI Symbol Acc MGI 1914103
E03	SBM0984439	ENSMUST00000132734.7	Ppargc1a	ENSMUSG00000029167	peroxisome proliferative activated receptor, gamma, coactivator 1 alpha Source MGI Symbol Acc MGI 1342774
E04	SBM0842607	ENSMUST00000075299.12	Ppargc1b	ENSMUSG00000033871	peroxisome proliferative activated receptor, gamma, coactivator 1 beta Source MGI Symbol Acc MGI 2444934
E05	SBM0974754	ENSMUST00000020608.2	Ppp2ca	ENSMUSG00000020349	protein phosphatase 2 (formerly 2A), catalytic subunit, alpha isoform Source MGI Symbol Acc MGI 1321159
E06	SBM0862901	ENSMUST00000009774.10	Ppp2cb	ENSMUSG00000009630	protein phosphatase 2 (formerly 2A), catalytic subunit, beta isoform Source MGI Symbol Acc MGI 1321161
E07	SBM0760793	ENSMUST00000007708.13	Ppp2r1a	ENSMUSG00000007564	protein phosphatase 2, regulatory subunit A, alpha Source MGI Symbol Acc MGI 1926334
E08	SBM0723007	ENSMUST00000034560.13	Ppp2r1b	ENSMUSG00000032058	protein phosphatase 2, regulatory subunit A, beta Source MGI Symbol Acc MGI 1920949
E09	SBM1064475	ENSMUST00000153737.1	Ppp2r2b	ENSMUSG00000024500	protein phosphatase 2, regulatory subunit B, beta Source MGI Symbol Acc MGI 1920180
E10	SBM0993253	ENSMUST00000137741.1	Ptpa	ENSMUSG00000039515	protein phosphatase 2 protein activator Source MGI Symbol Acc MGI 1346006
E11	SBM0905959	ENSMUST00000228218.1	Prkaa1	ENSMUSG00000050697	protein kinase, AMP-activated, alpha 1 catalytic subunit Source MGI Symbol Acc MGI 2145955
E12	SBM0859779	ENSMUST00000030243.7	Prkaa2	ENSMUSG00000028518	protein kinase, AMP-activated, alpha 2 catalytic subunit Source MGI Symbol Acc MGI 1336173
F01	SBM0933984	ENSMUST00000141018.1	Prkab1	ENSMUSG00000029513	protein kinase, AMP-activated, beta 1 non-catalytic subunit Source MGI Symbol Acc MGI 1336167
F02	SBM0898406	ENSMUST00000132719.1	Prkab2	ENSMUSG00000038205	protein kinase, AMP-activated, beta 2 non-catalytic subunit Source MGI Symbol Acc MGI 1336185
F03	SBM0941812	ENSMUST00000211558.1	Prkaca	ENSMUSG00000005469	protein kinase, cAMP dependent, catalytic, alpha Source MGI Symbol Acc MGI 97592
F04	SBM0782290	ENSMUST00000102515.9	Prkacb	ENSMUSG00000005034	protein kinase, cAMP dependent, catalytic, beta Source MGI Symbol Acc MGI 97594
F05	SBM0922630	ENSMUST00000229346.1	Prkag1	ENSMUSG00000067713	protein kinase, AMP-activated, gamma 1 non-catalytic subunit Source MGI Symbol Acc MGI 108411
F06	SBM0764294	ENSMUST00000150135.7	Prkag2	ENSMUSG00000028944	protein kinase, AMP-activated, gamma 2 non-catalytic subunit Source MGI Symbol Acc MGI 1336153
F07	SBM1026091	ENSMUST00000160732.7	Prkag3	ENSMUSG00000006542	protein kinase, AMP-activated, gamma 3 non-catalytic subunit Source MGI Symbol Acc MGI 1891343
F08	SBM0795279	ENSMUST00000049527.6	Prkar1a	ENSMUSG00000020612	protein kinase, cAMP dependent regulatory, type I, alpha Source MGI Symbol Acc MGI 104878
F09	SBM0722503	ENSMUST00000026973.13	Prkar1b	ENSMUSG00000025855	protein kinase, cAMP dependent regulatory, type I beta Source MGI Symbol Acc MGI 97759
F10	SBM1031979	ENSMUST00000192068.1	Prkar2a	ENSMUSG00000032601	protein kinase, cAMP dependent regulatory, type II alpha Source MGI Symbol Acc MGI 108025

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM0767821	ENSMUST00000146865.1	Prkar2b	ENSMUSG0000002997	protein kinase, cAMP dependent regulatory, type II beta Source MGI Symbol Acc MGI 97760
F12	SBM1218724	ENSMUST00000160871.7	Rb1cc1	ENSMUSG0000025907	RB1 -inducible coiled-coil 1 Source MGI Symbol Acc MGI 1341850
G01	SBM0853475	ENSMUST00000058286.8	Rps6kb1	ENSMUSG0000020516	ribosomal protein S6 kinase, polypeptide 1 Source MGI Symbol Acc MGI 1270849
G02	SBM0762977	ENSMUST00000127605.7	Rps6kb2	ENSMUSG0000024830	ribosomal protein S6 kinase, polypeptide 2 Source MGI Symbol Acc MGI 1927343
G03	SBM0780248	ENSMUST00000139728.7	Rptor	ENSMUSG0000025583	regulatory associated protein of MTOR, complex 1 Source MGI Symbol Acc MGI 1921620
G04	SBM0717464	ENSMUST00000178809.7	Slc2a4	ENSMUSG0000018566	solute carrier family 2 (facilitated glucose transporter), member 4 Source MGI Symbol Acc MGI 95758
G05	SBM0984070	ENSMUST00000020846.7	Srebfl	ENSMUSG0000020538	sterol regulatory element binding transcription factor 1 Source MGI Symbol Acc MGI 107606
G06	SBM0873081	ENSMUST00000213772.1	Sfk11	ENSMUSG0000003068	serine/threonine kinase 11 Source MGI Symbol Acc MGI 1341870
G07	SBM0772188	ENSMUST00000103072.9	Strada	ENSMUSG00000069631	STE20-related kinase adaptor alpha Source MGI Symbol Acc MGI 1919399
G08	SBM1040912	ENSMUST00000147637.7	Stradb	ENSMUSG0000026027	STE20-related kinase adaptor beta Source MGI Symbol Acc MGI 2144047
G09	SBM0841427	ENSMUST00000108657.3	Trp53	ENSMUSG00000059552	transformation related protein 53 Source MGI Symbol Acc MGI 98834
G10	SBM1061191	ENSMUST00000124507.1	Tsc1	ENSMUSG0000026812	tuberous sclerosis 1 Source MGI Symbol Acc MGI 1929183
G11	SBM0757000	ENSMUST00000228412.1	Tsc2	ENSMUSG0000002496	tuberous sclerosis 2 Source MGI Symbol Acc MGI 102548
G12	SBM0718433	ENSMUST00000198470.1	Ulk1	ENSMUSG0000029512	unc-51 like kinase 1 Source MGI Symbol Acc MGI 1270126
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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