

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

Mouse PPAR Targets

Cat. no. 249950 SBMM-149ZR

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	Acaa2	Acaadl	Acadm	Acox1	Acox3	Acs1	Acs3	Acs4	Acs5	Adipoq	Angptl4	Apoa1
B	Apoa5	Apoc3	Apoe	Helz2	Cd36	Chd9	Clu	Cpt1a	Cpt1b	Cpt2	Creb1	Crebbp
C	Cyp27a1	Cyp4a10	Cyp7a1	Dgat1	Ech1	Ehhadh	Eln	Ep300	Eif4h	Fabp1	Fabp2	Fabp3
D	Fabp4	Fabp5	Fabp6	Fabp7	Fads2	Fgr	Gk	Hif1a	Hmgcs2	Hspd1	Ilk	Klf10
E	Lpl	Med1	Mlycd	Mmp9	Ncoa3	Ncoa6	Nr1h3	Olr1	Pck1	Pck2	Pdjk1	Ptfn
F	Ppara	Ppard	Pparg	Ppargc1a	Ppargc1b	Pprc1	Pten	Rara	Rarb	Rarg	Scd1	Sirt1
G	Slc22a5	Slc27a1	Slc27a2	Slc27a4	Slc27a5	Slc27a6	Smarcd3	Sorbs1	Src	Tgs1	Txnip	Ucp1
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	SBM0980968	ENSMUST00000041053.10	Acaa2	ENSMUSG0000036880	acetyl-Coenzyme A acyltransferase 2 (mitochondrial 3-oxoacyl-Coenzyme A thiolase) Source MGI Symbol Acc MGI 1098623
A02	SBM0841065	ENSMUST00000027153.5	Acadl	ENSMUSG0000026003	acyl-Coenzyme A dehydrogenase, long-chain Source MGI Symbol Acc MGI 87866
A03	SBM0928276	ENSMUST000000156310.1	Acadm	ENSMUSG0000062908	acyl-Coenzyme A dehydrogenase, medium chain Source MGI Symbol Acc MGI 87867
A04	SBM1069471	ENSMUST00000066587.11	Acox1	ENSMUSG0000020777	acyl-Coenzyme A oxidase 1, palmitoyl Source MGI Symbol Acc MGI 1330812
A05	SBM0895502	ENSMUST000000201106.2	Acox3	ENSMUSG0000029098	acyl-Coenzyme A oxidase 3, pristanoyl Source MGI Symbol Acc MGI 1933156
A06	SBM0793742	ENSMUST000000211644.1	Acs1	ENSMUSG0000018796	acyl-CoA synthetase long-chain family member 1 Source MGI Symbol Acc MGI 102797
A07	SBM0941480	ENSMUST000000142704.7	Acs13	ENSMUSG0000032883	acyl-CoA synthetase long-chain family member 3 Source MGI Symbol Acc MGI 1921455
A08	SBM0931597	ENSMUST000000033634.4	Acs14	ENSMUSG0000031278	acyl-CoA synthetase long-chain family member 4 Source MGI Symbol Acc MGI 1354713
A09	SBM0675306	ENSMUST000000043150.5	Acs15	ENSMUSG0000024981	acyl-CoA synthetase long-chain family member 5 Source MGI Symbol Acc MGI 1919129
A10	SBM0903115	ENSMUST000000023593.5	Adipoq	ENSMUSG0000022878	adiponectin, C1Q and collagen domain containing Source MGI Symbol Acc MGI 106675
A11	SBM0692606	ENSMUST000000174872.1	Angptl4	ENSMUSG0000002289	angiopoietin-like 4 Source MGI Symbol Acc MGI 1888999
A12	SBM0916212	ENSMUST000000132155.1	Apoa1	ENSMUSG0000032083	apolipoprotein A-I Source MGI Symbol Acc MGI 88049
B01	SBM0970398	ENSMUST000000214202.1	Apoa5	ENSMUSG0000032079	apolipoprotein A-V Source MGI Symbol Acc MGI 1913363
B02	SBM0912636	ENSMUST000000118649.7	Apoc3	ENSMUSG0000032081	apolipoprotein C-III Source MGI Symbol Acc MGI 88055
B03	SBM0912771	ENSMUST000000173739.7	ApoE	ENSMUSG0000002985	apolipoprotein E Source MGI Symbol Acc MGI 88057
B04	SBM0999059	ENSMUST000000155049.1	Helz2	ENSMUSG0000027580	helicase with zinc finger 2, transcriptional coactivator Source MGI Symbol Acc MGI 2385169
B05	SBM0818786	ENSMUST000000170051.7	Cd36	ENSMUSG0000002944	CD36 molecule Source MGI Symbol Acc MGI 107899
B06	SBM0954419	ENSMUST000000209746.1	Chd9	ENSMUSG0000056608	chromodomain helicase DNA binding protein 9 Source MGI Symbol Acc MGI 1924001
B07	SBM0933901	ENSMUST000000153460.7	Clu	ENSMUSG0000022037	clusterin Source MGI Symbol Acc MGI 88423
B08	SBM1029896	ENSMUST000000238027.1	Cpt1a	ENSMUSG0000024900	carnitine palmitoyltransferase 1a, liver Source MGI Symbol Acc MGI 1098296
B09	SBM0949787	ENSMUST000000109313.8	Cpt1b	ENSMUSG0000078937	carnitine palmitoyltransferase 1b, muscle Source MGI Symbol Acc MGI 1098297
B10	SBM0911444	ENSMUST000000030345.14	Cpt2	ENSMUSG0000028607	carnitine palmitoyltransferase 2 Source MGI Symbol Acc MGI 109176
B11	SBM0735214	ENSMUST000000188855.6	Creb1	ENSMUSG0000025958	cAMP responsive element binding protein 1 Source MGI Symbol Acc MGI 88494
B12	SBM0926551	ENSMUST000000205765.1	Crebbp	ENSMUSG0000022521	CREB binding protein Source MGI Symbol Acc MGI 1098280
C01	SBM1013045	ENSMUST000000027356.6	Cyp27a1	ENSMUSG0000026170	cytochrome P450, family 27, subfamily a, polypeptide 1 Source MGI Symbol Acc MGI 88594
C02	SBM0792650	ENSMUST000000058785.9	Cyp4a10	ENSMUSG0000066072	cytochrome P450, family 4, subfamily a, polypeptide 10 Source MGI Symbol Acc MGI 88611
C03	SBM0922584	ENSMUST000000147346.1	Cyp7a1	ENSMUSG0000028240	cytochrome P450, family 7, subfamily a, polypeptide 1 Source MGI Symbol Acc MGI 106091
C04	SBM0758167	ENSMUST000000159908.1	Dgat1	ENSMUSG0000022555	diacylglycerol O-acyltransferase 1 Source MGI Symbol Acc MGI 1333825
C05	SBM0676705	ENSMUST000000132376.1	Ech1	ENSMUSG0000053898	enoyl coenzyme A hydratase 1, peroxisomal Source MGI Symbol Acc MGI 1858208
C06	SBM0992271	ENSMUST000000023559.6	Ehhadh	ENSMUSG0000022853	enoyl-Coenzyme A, hydratase/3-hydroxyacyl Coenzyme A dehydrogenase Source MGI Symbol Acc MGI 1277964
C07	ENSMUST000000201856.1	Eln	ENSMUSG0000029675	elastin Source MGI Symbol Acc MGI 95317	
C08	SBM1065431	ENSMUST000000190035.1	Ep300	ENSMUSG0000055024	E1A binding protein p300 Source MGI Symbol Acc MGI 1276116
C09	SBM0866914	ENSMUST000000029386.13	Etfdh	ENSMUSG0000027809	electron transferring flavoprotein, dehydrogenase Source MGI Symbol Acc MGI 106100
C10	SBM0729972	ENSMUST000000067492.7	Fabp1	ENSMUSG0000054422	fatty acid binding protein 1, liver Source MGI Symbol Acc MGI 95479
		ENSMUST000000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM0934592	023820.5	Fabp2	000023057	fatty acid binding protein 2, intestinal Source MGI Symbol Acc MGI 95478
C12	SBM0915423	ENSMUST0000070532.7	Fabp3	ENSMUSG0000028773	fatty acid binding protein 3, muscle and heart Source MGI Symbol Acc MGI 95476
D01	SBM0719045	ENSMUST0000029041.5	Fabp4	ENSMUSG00000062515	fatty acid binding protein 4, adipocyte Source MGI Symbol Acc MGI 88038
D02	SBM0695464	ENSMUST0000029046.8	Fabp5	ENSMUSG00000027533	fatty acid binding protein 5, epidermal Source MGI Symbol Acc MGI 101790
D03	SBM1030650	ENSMUST0000020672.4	Fabp6	ENSMUSG00000020405	fatty acid binding protein 6 Source MGI Symbol Acc MGI 96565
D04	SBM0966652	ENSMUST0000020024.11	Fabp7	ENSMUSG00000019874	fatty acid binding protein 7, brain Source MGI Symbol Acc MGI 101916
D05	SBM0847658	ENSMUST00000238023.1	Fads2	ENSMUSG0000024665	fatty acid desaturase 2 Source MGI Symbol Acc MGI 1930079
D06	SBM0872649	ENSMUST00000138179.7	Fgr	ENSMUSG00000028874	FGR proto-oncogene, Src family tyrosine kinase Source MGI Symbol Acc MGI 95527
D07	SBM0796540	ENSMUST00000124386.1	Gk	ENSMUSG00000025059	glycerol kinase Source MGI Symbol Acc MGI 106594
D08	SBM1003614	ENSMUST00000110464.7	Hif1a	ENSMUSG00000021109	hypoxia inducible factor 1, alpha subunit Source MGI Symbol Acc MGI 106918
D09	SBM0862891	ENSMUST00000090746.2	Hmgcs2	ENSMUSG00000027875	3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2 Source MGI Symbol Acc MGI 101939
D10	SBM0789113	ENSMUST00000027123.14	Hspd1	ENSMUSG00000025980	heat shock protein 1 (chaperonin) Source MGI Symbol Acc MGI 96242
D11	SBM0904671	ENSMUST00000033182.9	Ilk	ENSMUSG00000030890	integrin linked kinase Source MGI Symbol Acc MGI 1195267
D12	SBM1054966	ENSMUST00000074043.6	Klf10	ENSMUSG00000037465	Kruppel-like factor 10 Source MGI Symbol Acc MGI 1101353
E01	SBM1060657	ENSMUST00000015712.14	Lpl	ENSMUSG00000015568	lipoprotein lipase Source MGI Symbol Acc MGI 96820
E02	SBM1024945	ENSMUST00000126483.7	Med1	ENSMUSG00000018160	mediator complex subunit 1 Source MGI Symbol Acc MGI 1100846
E03	SBM1063186	ENSMUST00000145121.1	Mlycd	ENSMUSG00000074064	malonyl-CoA decarboxylase Source MGI Symbol Acc MGI 1928485
E04	SBM1089430	ENSMUST00000017881.2	Mmp9	ENSMUSG00000017737	matrix metalloproteinase 9 Source MGI Symbol Acc MGI 97011
E05	SBM0723993	ENSMUST00000153507.1	Ncoa3	ENSMUSG00000027678	nuclear receptor coactivator 3 Source MGI Symbol Acc MGI 1276535
E06	SBM0915877	ENSMUST00000043126.11	Ncoa6	ENSMUSG00000038369	nuclear receptor coactivator 6 Source MGI Symbol Acc MGI 1929915
E07	SBM0913125	ENSMUST00000150654.7	Nr1h3	ENSMUSG00000002108	nuclear receptor subfamily 1, group H, member 3 Source MGI Symbol Acc MGI 1352462
E08	SBM1042162	ENSMUST00000183258.7	Olr1	ENSMUSG00000030162	oxidized low density lipoprotein (lectin-like) receptor 1 Source MGI Symbol Acc MGI 1261434
E09	SBM0953267	ENSMUST00000029017.5	Pck1	ENSMUSG00000027513	phosphoenolpyruvate carboxykinase 1, cytosolic Source MGI Symbol Acc MGI 97501
E10	SBM1060112	ENSMUST00000228921.1	Pck2	ENSMUSG00000040618	phosphoenolpyruvate carboxykinase 2 (mitochondrial) Source MGI Symbol Acc MGI 1860456
E11	SBM0716432	ENSMUST00000115409.8	Pdk1	ENSMUSG00000024122	3-phosphoinositide dependent protein kinase 1 Source MGI Symbol Acc MGI 1338068
E12	SBM0745518	ENSMUST00000156255.7	Pltp	ENSMUSG00000017754	phospholipid transfer protein Source MGI Symbol Acc MGI 103151
F01	SBM0952484	ENSMUST00000138813.7	Ppara	ENSMUSG00000022383	peroxisome proliferator activated receptor alpha Source MGI Symbol Acc MGI 104740
F02	SBM0865243	ENSMUST00000169040.2	Ppard	ENSMUSG00000002250	peroxisome proliferator activator receptor delta Source MGI Symbol Acc MGI 101884
F03	SBM1015614	ENSMUST00000205213.2	Pparg	ENSMUSG00000000440	peroxisome proliferator activated receptor gamma Source MGI Symbol Acc MGI 97747
F04	SBM0984439	ENSMUST00000132734.7	Ppargc1a	ENSMUSG00000029167	peroxisome proliferative activated receptor, gamma, coactivator 1 alpha Source MGI Symbol Acc MGI 1342774
F05	SBM0842607	ENSMUST00000075299.12	Ppargc1b	ENSMUSG00000033871	peroxisome proliferative activated receptor, gamma, coactivator 1 beta Source MGI Symbol Acc MGI 2444934
F06	SBM0938326	ENSMUST00000147640.1	Pprc1	ENSMUSG00000055491	peroxisome proliferative activated receptor, gamma, coactivator-related 1 Source MGI Symbol Acc MGI 2385096
F07	SBM1220566	ENSMUST00000013807.7	Pten	ENSMUSG00000013663	phosphatase and tensin homolog Source MGI Symbol Acc MGI 109583
F08	SBM0865579	ENSMUST00000166775.7	Rxra	ENSMUSG00000015846	retinoid X receptor alpha Source MGI Symbol Acc MGI 98214
F09	SBM1090496	ENSMUST00000174130.1	Rxrb	ENSMUSG00000039656	retinoid X receptor beta Source MGI Symbol Acc MGI 98215
F10	SBM0740327	ENSMUST00000015987.9	Rxrg	ENSMUSG00000015843	retinoid X receptor gamma Source MGI Symbol Acc MGI 98216

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM0890897	ENSMUST00000236824.1	Scd1	ENSMUSG0000037071	stearoyl-Coenzyme A desaturase 1 Source MGI Symbol Acc MGI 98239
F12	SBM1040786	ENSMUST0000020257.12	Sirt1	ENSMUSG0000020063	sirtuin 1 Source MGI Symbol Acc MGI 2135607
G01	SBM0772549	ENSMUST00000152084.1	Slc22a5	ENSMUSG0000018900	solute carrier family 22 (organic cation transporter), member 5 Source MGI Symbol Acc MGI 1329012
G02	SBM0883649	ENSMUST0000034267.4	Slc27a1	ENSMUSG0000031808	solute carrier family 27 (fatty acid transporter), member 1 Source MGI Symbol Acc MGI 1347098
G03	SBM0878546	ENSMUST0000061491.13	Slc27a2	ENSMUSG0000027359	solute carrier family 27 (fatty acid transporter), member 2 Source MGI Symbol Acc MGI 1347099
G04	SBM0823234	ENSMUST00000136444.1	Slc27a4	ENSMUSG0000059316	solute carrier family 27 (fatty acid transporter), member 4 Source MGI Symbol Acc MGI 1347347
G05	SBM1013002	ENSMUST00000120903.7	Slc27a5	ENSMUSG0000030382	solute carrier family 27 (fatty acid transporter), member 5 Source MGI Symbol Acc MGI 1347100
G06	SBM1017101	ENSMUST0000025500.6	Slc27a6	ENSMUSG0000024600	solute carrier family 27 (fatty acid transporter), member 6 Source MGI Symbol Acc MGI 3036230
G07	SBM0814047	ENSMUST00000195943.1	Smardc3	ENSMUSG0000028949	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 3 Source MGI Symbol Acc MGI 1914243
G08	SBM1083181	ENSMUST00000224667.1	Sorbs1	ENSMUSG0000025006	sorbin and SH3 domain containing 1 Source MGI Symbol Acc MGI 700014
G09	SBM1051097	ENSMUST0000029175.13	Src	ENSMUSG0000027646	Rous sarcoma oncogene Source MGI Symbol Acc MGI 98397
G10	SBM1073987	ENSMUST00000132518.1	Tgs1	ENSMUSG0000028233	trimethylguanosine synthase 1 Source MGI Symbol Acc MGI 2151797
G11	SBM1060480	ENSMUST0000049093.7	Txnip	ENSMUSG0000038393	thioredoxin interacting protein Source MGI Symbol Acc MGI 1889549
G12	SBM1037476	ENSMUST0000034146.4	Ucp1	ENSMUSG0000031710	uncoupling protein 1 (mitochondrial, proton carrier) Source MGI Symbol Acc MGI 98894
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	ENSMUST0000026613.13	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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