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

Mouse Cardiovascular Disease

Cat. no. 249950 SBMM-174ZR

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	Ace	Actc1	Adra1a	Adra1b	Adra1d	Adrb1	Adrb2	Adrb3	Aebp1	Agtr1a	Anxa4	Ar
B	Atp2a2	Atp5a1	C6	Ccl11	Ccl2	Ccnd1	Cdkn1b	Col11a1	Col1a1	Col3a1	Creb5	Crem
C	Cryab	Crym	Ccn2	Cxcl12	Dcn	Dmd	Dusp6	Enah	Epor	F2r	Fn1	Frzb
D	G0s2	Gja1	Hmgcl	Hmgcr	Hmgn2	Klhl3	Maoa	Map2k5	Mapk1	Mapk8	Mmp13	Msi2
E	Myh10	Myh6	Ndufb5	Nebl	Nfia	Nkx2-5	Nppa	Nppb	Npr1	Npr2	Npr3	Nr3c1
F	Nr3c2	Pde3a	Pde3b	Pde5a	Pde7a	Postn	Ptn	Rarres1	Rassf1	Ren1	Rtn4	S100a1
G	S100a8	Sfrp4	Slc12a1	Snca	Spock1	Stat1	Tcf4	Thbs2	Tnni3	Tnnt2	Ubb	Zyx
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	SBM0904655	ENSMUST00000151657.1	Ace	ENSMUSG00000020681	angiotensin I converting enzyme (peptidyl-dipeptidase A) 1 Source MGI Symbol Acc MGI 87874
A02	SBM0981403	ENSMUST00000090269.6	Actc1	ENSMUSG00000068614	actin, alpha, cardiac muscle 1 Source MGI Symbol Acc MGI 87905
A03	SBM0789211	ENSMUST00000160647.1	Adra1a	ENSMUSG00000045875	adrenergic receptor, alpha 1a Source MGI Symbol Acc MGI 104773
A04	SBM0693993	ENSMUST00000124306.1	Adra1b	ENSMUSG00000050541	adrenergic receptor, alpha 1b Source MGI Symbol Acc MGI 104774
A05	SBM0697937	ENSMUST00000103184.3	Adra1d	ENSMUSG00000027335	adrenergic receptor, alpha 1d Source MGI Symbol Acc MGI 106673
A06	SBM1062089	ENSMUST00000038949.5	Adrb1	ENSMUSG00000035283	adrenergic receptor, beta 1 Source MGI Symbol Acc MGI 87937
A07	SBM1025763	ENSMUST00000053640.4	Adrb2	ENSMUSG00000045730	adrenergic receptor, beta 2 Source MGI Symbol Acc MGI 87938
A08	SBM0825801	ENSMUST00000121838.1	Adrb3	ENSMUSG00000031489	adrenergic receptor, beta 3 Source MGI Symbol Acc MGI 87939
A09	SBM0724164	ENSMUST00000109829.1	Aebp1	ENSMUSG00000020473	AE binding protein 1 Source MGI Symbol Acc MGI 1197012
A10	SBM0991724	ENSMUST00000222503.1	Agtr1a	ENSMUSG00000049115	angiotensin II receptor, type 1a Source MGI Symbol Acc MGI 87964
A11	SBM0705934	ENSMUST00000127152.8	Anxa4	ENSMUSG00000029994	annexin A4 Source MGI Symbol Acc MGI 88030
A12	SBM0829583	ENSMUST00000052837.8	Ar	ENSMUSG00000046532	androgen receptor Source MGI Symbol Acc MGI 88064
B01	SBM0896223	ENSMUST00000031423.9	Atp2a2	ENSMUSG00000029467	ATPase, Ca++ transporting, cardiac muscle, slow twitch 2 Source MGI Symbol Acc MGI 88110
B02	SBM1087445	ENSMUST00000114748.1	Atp5a1	ENSMUSG00000025428	ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subunit 1 Source MGI Symbol Acc MGI 88115
B03	SBM0780137	ENSMUST00000162350.2	C6	ENSMUSG00000022181	complement component 6 Source MGI Symbol Acc MGI 88233
B04	SBM0757192	ENSMUST00000000342.2	Ccl11	ENSMUSG00000020676	chemokine (C-C motif) ligand 11 Source MGI Symbol Acc MGI 103576
B05	SBM0836747	ENSMUST00000000193.5	Ccl2	ENSMUSG00000035385	chemokine (C-C motif) ligand 2 Source MGI Symbol Acc MGI 98259
B06	SBM0706150	ENSMUST00000093962.4	Ccnd1	ENSMUSG00000070348	cyclin D1 Source MGI Symbol Acc MGI 88313
B07	SBM1006924	ENSMUST00000067327.10	Cdkn1b	ENSMUSG00000003031	cyclin-dependent kinase inhibitor 1B Source MGI Symbol Acc MGI 104565
B08	SBM0992417	ENSMUST00000092155.11	Col11a1	ENSMUSG00000027966	collagen, type XI, alpha 1 Source MGI Symbol Acc MGI 88446
B09	SBM0911341	ENSMUST00000139974.1	Col1a1	ENSMUSG00000001506	collagen, type I, alpha 1 Source MGI Symbol Acc MGI 88467
B10	SBM0704935	ENSMUST00000129611.1	Col3a1	ENSMUSG00000026043	collagen, type III, alpha 1 Source MGI Symbol Acc MGI 88453
B11	SBM1070384	ENSMUST00000204245.2	Creb5	ENSMUSG00000053007	cAMP responsive element binding protein 5 Source MGI Symbol Acc MGI 2443973
B12	SBM1037952	ENSMUST00000147138.7	Crem	ENSMUSG00000063889	cAMP responsive element modulator Source MGI Symbol Acc MGI 88495
C01	SBM1019697	ENSMUST00000034562.8	Cryab	ENSMUSG00000032060	crystallin, alpha B Source MGI Symbol Acc MGI 88516
C02	SBM0810552	ENSMUST00000033198.5	Crym	ENSMUSG00000030905	crystallin, mu Source MGI Symbol Acc MGI 102675
C03	SBM0718058	ENSMUST00000176228.1	Ccn2	ENSMUSG00000019997	cellular communication network factor 1 Source MGI Symbol Acc MGI 95537
C04	SBM0703161	ENSMUST00000134244.1	Cxcl12	ENSMUSG00000061353	chemokine (C-X-C motif) ligand 12 Source MGI Symbol Acc MGI 103556
C05	SBM0910615	ENSMUST00000219539.1	Dcn	ENSMUSG00000019929	decorin Source MGI Symbol Acc MGI 94872
C06	SBM0815669	ENSMUST00000113991.7	Dmd	ENSMUSG00000045103	dystrophin, muscular dystrophy Source MGI Symbol Acc MGI 94909
C07	SBM0900505	ENSMUST00000220291.1	Dusp6	ENSMUSG00000019960	dual specificity phosphatase 6 Source MGI Symbol Acc MGI 1914853
C08	SBM1062338	ENSMUST00000177811.7	Enah	ENSMUSG00000022995	ENAH actin regulator Source MGI Symbol Acc MGI 108360
C09	SBM1015360	ENSMUST00000213181.1	Epor	ENSMUSG00000006235	erythropoietin receptor Source MGI Symbol Acc MGI 95408
C10	SBM0878566	ENSMUST00000059193.6	F2r	ENSMUSG00000048376	coagulation factor II (thrombin) receptor Source MGI Symbol Acc MGI 101802
		ENSMUST00000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM0934692	185408.6	Fn1	000026193	fibronectin 1 Source MGI Symbol Acc MGI 95566
C12	SBM0847786	ENSMUST00000028389.3	Frzb	ENSMUSG00000027004	frizzled-related protein Source MGI Symbol Acc MGI 892032
D01	SBM0708561	ENSMUST00000009777.3	G0s2	ENSMUSG00000009633	G0/G1 switch gene 2 Source MGI Symbol Acc MGI 1316737
D02	SBM1033106	ENSMUST00000218834.1	Gja1	ENSMUSG00000050953	gap junction protein, alpha 1 Source MGI Symbol Acc MGI 95713
D03	SBM0909636	ENSMUST00000030432.7	Hmgcl	ENSMUSG00000028672	3-hydroxy-3-methylglutaryl-Coenzyme A lyase Source MGI Symbol Acc MGI 96158
D04	SBM0852758	ENSMUST00000169196.7	Hmgcr	ENSMUSG00000021670	3-hydroxy-3-methylglutaryl-Coenzyme A reductase Source MGI Symbol Acc MGI 96159
D05	SBM0855216	ENSMUST00000138458.7	Hmgn2	ENSMUSG00000003038	high mobility group nucleosomal binding domain 2 Source MGI Symbol Acc MGI 96136
D06	SBM0872030	ENSMUST00000091583.5	Klhl3	ENSMUSG00000014164	kelch-like 3 Source MGI Symbol Acc MGI 2445185
D07	SBM0886215	ENSMUST00000026013.5	Maoa	ENSMUSG00000025037	monoamine oxidase A Source MGI Symbol Acc MGI 96915
D08	SBM0705884	ENSMUST00000034920.10	Map2k5	ENSMUSG00000058444	mitogen-activated protein kinase kinase 5 Source MGI Symbol Acc MGI 1346345
D09	SBM0800614	ENSMUST00000231821.1	Mapk1	ENSMUSG00000063358	mitogen-activated protein kinase 1 Source MGI Symbol Acc MGI 1346858
D10	SBM0984642	ENSMUST00000132379.1	Mapk8	ENSMUSG00000021936	mitogen-activated protein kinase 8 Source MGI Symbol Acc MGI 1346861
D11	SBM0784073	ENSMUST00000015394.9	Mmp13	ENSMUSG00000050578	matrix metallopeptidase 13 Source MGI Symbol Acc MGI 1340026
D12	SBM0781418	ENSMUST00000138790.7	Msi2	ENSMUSG00000069769	musashi RNA-binding protein 2 Source MGI Symbol Acc MGI 1923876
E01	SBM0882827	ENSMUST00000155765.1	Myh10	ENSMUSG00000020900	myosin, heavy polypeptide 10, non-muscle Source MGI Symbol Acc MGI 1930780
E02	SBM1020406	ENSMUST00000124930.7	Myh6	ENSMUSG00000040752	myosin, heavy polypeptide 6, cardiac muscle, alpha Source MGI Symbol Acc MGI 97255
E03	SBM0778792	ENSMUST00000127477.7	Ndufb5	ENSMUSG00000027673	NADH ubiquinone oxidoreductase subunit B5 Source MGI Symbol Acc MGI 1913296
E04	SBM1015771	ENSMUST00000145545.1	Nebl	ENSMUSG00000053702	nebulette Source MGI Symbol Acc MGI 1921353
E05	SBM0872601	ENSMUST00000052018.11	Nfia	ENSMUSG00000028565	nuclear factor I/A Source MGI Symbol Acc MGI 108056
E06	SBM0885289	ENSMUST00000015723.4	Nkx2-5	ENSMUSG00000015579	NK2 homeobox 5 Source MGI Symbol Acc MGI 97350
E07	SBM0848014	ENSMUST00000103230.4	Nppa	ENSMUSG00000041616	natriuretic peptide type A Source MGI Symbol Acc MGI 97367
E08	SBM1033372	ENSMUST00000103231.4	Nppb	ENSMUSG00000029019	natriuretic peptide type B Source MGI Symbol Acc MGI 97368
E09	SBM0913786	ENSMUST00000029540.12	Npr1	ENSMUSG00000027931	natriuretic peptide receptor 1 Source MGI Symbol Acc MGI 97371
E10	SBM0959081	ENSMUST00000123883.7	Npr2	ENSMUSG00000028469	natriuretic peptide receptor 2 Source MGI Symbol Acc MGI 97372
E11	SBM0728481	ENSMUST00000066529.4	Npr3	ENSMUSG00000022206	natriuretic peptide receptor 3 Source MGI Symbol Acc MGI 97373
E12	SBM0963014	ENSMUST00000115571.7	Nr3c1	ENSMUSG00000024431	nuclear receptor subfamily 3, group C, member 1 Source MGI Symbol Acc MGI 95824
F01	SBM0952962	ENSMUST00000109911.7	Nr3c2	ENSMUSG00000031618	nuclear receptor subfamily 3, group C, member 2 Source MGI Symbol Acc MGI 99459
F02	SBM0986529	ENSMUST00000189060.2	Pde3a	ENSMUSG00000041741	phosphodiesterase 3A, cGMP inhibited Source MGI Symbol Acc MGI 1860764
F03	SBM1076925	ENSMUST00000149455.1	Pde3b	ENSMUSG00000030671	phosphodiesterase 3B, cGMP-inhibited Source MGI Symbol Acc MGI 1333863
F04	SBM0890864	ENSMUST00000199253.1	Pde5a	ENSMUSG00000053965	phosphodiesterase 5A, cGMP-specific Source MGI Symbol Acc MGI 2651499
F05	SBM1044633	ENSMUST00000156652.7	Pde7a	ENSMUSG00000069094	phosphodiesterase 7A Source MGI Symbol Acc MGI 1202402
F06	SBM1010273	ENSMUST00000073012.12	Postn	ENSMUSG00000027750	periostin, osteoblast specific factor Source MGI Symbol Acc MGI 1926321
F07	SBM0912051	ENSMUST00000201321.1	Ptn	ENSMUSG00000029838	pleiotrophin Source MGI Symbol Acc MGI 97804
F08	SBM1005319	ENSMUST00000054825.4	Rarres1	ENSMUSG00000049404	retinoic acid receptor responder (tazarotene induced) 1 Source MGI Symbol Acc MGI 1924461
F09	SBM0972716	ENSMUST00000121635.6	Rassf1	ENSMUSG00000010067	Ras association (RalGDS/AF-6) domain family member 1 Source MGI Symbol Acc MGI 1928386
F10	SBM0691293	ENSMUST00000094556.2	Ren1	ENSMUSG00000070645	renin 1 structural Source MGI Symbol Acc MGI 97898

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM0934050	ENSMUST00000156217.7	Rtn4	ENSMUSG00000020458	reticulon 4 Source MGI Symbol Acc MGI 1915835
F12	SBM0801690	ENSMUST00000107340.1	S100a1	ENSMUSG00000044080	S100 calcium binding protein A1 Source MGI Symbol Acc MGI 1338917
G01	SBM0822839	ENSMUST00000198156.1	S100a8	ENSMUSG00000056054	S100 calcium binding protein A8 (calgranulin A) Source MGI Symbol Acc MGI 88244
G02	SBM1011565	ENSMUST00000221810.1	Sfrp4	ENSMUSG00000021319	secreted frizzled-related protein 4 Source MGI Symbol Acc MGI 892010
G03	SBM0727995	ENSMUST00000028630.8	Slc12a1	ENSMUSG00000027202	solute carrier family 12, member 1 Source MGI Symbol Acc MGI 103150
G04	SBM1045894	ENSMUST00000163779.7	Snca	ENSMUSG00000025889	synuclein, alpha Source MGI Symbol Acc MGI 1277151
G05	SBM0930922	ENSMUST00000172326.2	Spock1	ENSMUSG00000056222	sparc/osteonectin, cwcv and kazal-like domains proteoglycan 1 Source MGI Symbol Acc MGI 105371
G06	SBM0954168	ENSMUST00000070968.13	Stat1	ENSMUSG00000026104	signal transducer and activator of transcription 1 Source MGI Symbol Acc MGI 103063
G07	SBM0803388	ENSMUST00000114982.7	Tcf4	ENSMUSG00000053477	transcription factor 4 Source MGI Symbol Acc MGI 98506
G08	SBM0822435	ENSMUST00000170872.2	Thbs2	ENSMUSG00000023885	thrombospondin 2 Source MGI Symbol Acc MGI 98738
G09	SBM0701965	ENSMUST00000098859.9	Tnni3	ENSMUSG00000035458	troponin I, cardiac 3 Source MGI Symbol Acc MGI 98783
G10	SBM1082254	ENSMUST00000190451.6	Tnnt2	ENSMUSG00000026414	troponin T2, cardiac Source MGI Symbol Acc MGI 104597
G11	SBM0796409	ENSMUST00000019649.3	Ubb	ENSMUSG00000019505	ubiquitin B Source MGI Symbol Acc MGI 98888
G12	SBM1006474	ENSMUST00000203626.1	Zyx	ENSMUSG00000029860	zyxin Source MGI Symbol Acc MGI 103072
H01	SBM1220560	ENSMUST00000100497.10	Actb	ENSMUSG00000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	SBM0675336	ENSMUST00000102476.4	B2m	ENSMUSG00000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	SBM1220562	ENSMUST00000117757.8	Gapdh	ENSMUSG00000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	SBM1220563	ENSMUST00000026613.13	Gusb	ENSMUSG00000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	SBM1220564	ENSMUST00000166469.7	Hsp90ab1	ENSMUSG00000023944	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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