

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

Mouse Phagocytosis

Cat. no. 249950 SBMM-173ZR

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	Adipoq	Ager	Anxa1	Axl	C3	Calr	Cd14	Cd36	Cd44	Cd47	Ceacam3	Clec7a
B	Clic4	Cnn2	Colec12	Crk	Crp	Csf1	Csf2	Csk	Cyp2s1	Dock1	Dock2	Elmo1
C	Fos	Fcer1g	Fcgr1	Fcgr2b	Fcgr3	Fyn	Gulp1	Ifng	Il1r1	Il6	Il6	Il6
D	Il6	Lyn	Mapk14	Marco	Mbl2	Mcoln3	Mertk	Mfge8	Mif	Msn	Myd88	Nod1
E	Pecam1	Plk3cb	Pip5k1b	Pla2g4a	Pla2g5	Pld1	Pld2	Prkce	Prosl	Pten	Rab5a	Rab7
F	Rac1	Rac2	Rala	Ralb	Rapgef3	Rhoa	Scarb1	Serpine1	Sftpd	Siglec1	Sirpb1a	Stab2
G	Stx18	Syk	Tgm2	Ticam1	Tlr3	Tlr9	Tnf	Tnfrsf11	P2rx7	Vav1	Was	Wnt5a
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	SBM0903115	ENSMUST00000023593.5	Adipoq	ENSMUSG0000022878	adiponectin, C1Q and collagen domain containing Source MGI Symbol Acc MGI 106675
A02	SBM0929342	ENSMUST00000170161.7	Ager	ENSMUSG0000015452	advanced glycosylation end product-specific receptor Source MGI Symbol Acc MGI 893592
A03	SBM0987010	ENSMUST00000025561.7	Anxa1	ENSMUSG0000024659	annexin A1 Source MGI Symbol Acc MGI 96819
A04	SBM0743275	ENSMUST00000132989.7	Axl	ENSMUSG0000002602	AXL receptor tyrosine kinase Source MGI Symbol Acc MGI 1347244
A05	SBM0754550	ENSMUST00000024988.14	C3	ENSMUSG0000024164	complement component 3 Source MGI Symbol Acc MGI 88227
A06	SBM0796075	ENSMUST00000003912.6	Calr	ENSMUSG0000003814	calreticulin Source MGI Symbol Acc MGI 88252
A07	SBM0904854	ENSMUST00000061829.7	Cd14	ENSMUSG00000051439	CD14 antigen Source MGI Symbol Acc MGI 88318
A08	SBM0818786	ENSMUST00000170051.7	Cd36	ENSMUSG0000002944	CD36 molecule Source MGI Symbol Acc MGI 107899
A09	SBM0860996	ENSMUST00000111194.7	Cd44	ENSMUSG0000005087	CD44 antigen Source MGI Symbol Acc MGI 88338
A10	SBM0858999	ENSMUST00000229640.1	Cd47	ENSMUSG0000055447	CD47 antigen (Rh-related antigen, integrin-associated signal transducer) Source MGI Symbol Acc MGI 96617
A11	SBM0678783	ENSMUST00000108491.7	Ceacam3	ENSMUSG0000053228	carcinoembryonic antigen-related cell adhesion molecule 3 Source MGI Symbol Acc MGI 3646296
A12	SBM0927974	ENSMUST00000184861.3	Clec7a	ENSMUSG0000079293	C-type lectin domain family 7, member a Source MGI Symbol Acc MGI 1861431
B01	SBM0860669	ENSMUST00000037099.8	Clic4	ENSMUSG0000037242	chloride intracellular channel 4 (mitochondrial) Source MGI Symbol Acc MGI 1352754
B02	SBM1055222	ENSMUST00000105374.1	Cnn2	ENSMUSG0000004665	calponin 2 Source MGI Symbol Acc MGI 105093
B03	SBM1070170	ENSMUST00000040069.9	Colec12	ENSMUSG0000036103	collectin sub-family member 12 Source MGI Symbol Acc MGI 2152907
B04	SBM0856740	ENSMUST00000108425.7	Crk	ENSMUSG0000017776	v-crk avian sarcoma virus CT10 oncogene homolog Source MGI Symbol Acc MGI 88508
B05	SBM0905444	ENSMUST00000194251.1	Crp	ENSMUSG0000037942	C-reactive protein, pentraxin-related Source MGI Symbol Acc MGI 88512
B06	SBM0903322	ENSMUST00000155557.1	Csf1	ENSMUSG0000014599	colony stimulating factor 1 (macrophage) Source MGI Symbol Acc MGI 1339753
B07	SBM1080991	ENSMUST00000019060.5	Csf2	ENSMUSG0000018916	colony stimulating factor 2 (granulocyte-macrophage) Source MGI Symbol Acc MGI 1339752
B08	SBM0848166	ENSMUST00000217314.1	Csk	ENSMUSG0000032312	c-src tyrosine kinase Source MGI Symbol Acc MGI 88537
B09	SBM0729851	ENSMUST00000108395.7	Cyp2s1	ENSMUSG0000040703	cytochrome P450, family 2, subfamily s, polypeptide 1 Source MGI Symbol Acc MGI 1921384
B10	SBM1089600	ENSMUST00000084488.4	Dock1	ENSMUSG0000058325	dedicator of cytokinesis 1 Source MGI Symbol Acc MGI 2429765
B11	SBM1218368	ENSMUST00000101364.2	Dock2	ENSMUSG0000020143	dedicator of cyto-kinesis 2 Source MGI Symbol Acc MGI 2149010
B12	SBM0772612	ENSMUST00000220751.1	Elmo1	ENSMUSG0000041112	engulfment and cell motility 1 Source MGI Symbol Acc MGI 2153044
C01	SBM0856649	ENSMUST00000112472.3	Fas	ENSMUSG0000024778	Fas (TNF receptor superfamily member 6) Source MGI Symbol Acc MGI 95484
C02	SBM0790940	ENSMUST00000150997.1	Fcer1g	ENSMUSG0000058715	Fc receptor, IgE, high affinity I, gamma polypeptide Source MGI Symbol Acc MGI 95496
C03	SBM0845170	ENSMUST00000029748.7	Fcgr1	ENSMUSG0000015947	Fc receptor, IgG, high affinity I Source MGI Symbol Acc MGI 95498
C04	SBM1074809	ENSMUST00000027966.13	Fcgr2b	ENSMUSG0000026656	Fc receptor, IgG, low affinity IIb Source MGI Symbol Acc MGI 95499
C05	SBM0840445	ENSMUST00000169017.7	Fcgr3	ENSMUSG0000059498	Fc receptor, IgG, low affinity III Source MGI Symbol Acc MGI 95500
C06	SBM0773574	ENSMUST00000063091.12	Fyn	ENSMUSG0000019843	Fyn proto-oncogene Source MGI Symbol Acc MGI 95602
C07	SBM0952859	ENSMUST00000161793.1	Gulp1	ENSMUSG0000056870	GULP, engulfment adaptor PTB domain containing 1 Source MGI Symbol Acc MGI 1920407
C08	SBM0903694	ENSMUST00000068592.4	Ifng	ENSMUSG0000055170	interferon gamma Source MGI Symbol Acc MGI 107656
C09	SBM0977445	ENSMUST00000174335.7	Il1rl1	ENSMUSG0000026069	interleukin 1 receptor-like 1 Source MGI Symbol Acc MGI 98427
C10	SBM1003402	ENSMUST00000101151.9	Iqsec1	ENSMUSG0000034312	IQ motif and Sec7 domain 1 Source MGI Symbol Acc MGI 1196356
		ENSMUST00000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM0730179	156593.2	Itgam	000030786	integrin alpha M Source MGI Symbol Acc MGI 96607
C12	SBM0710817	ENSMUST00000151463.1	Itgav	ENSMUSG0000027087	integrin alpha V Source MGI Symbol Acc MGI 96608
D01	SBM0947975	ENSMUST00000131023.7	Itgb2	ENSMUSG0000000290	integrin beta 2 Source MGI Symbol Acc MGI 96611
D02	SBM0691599	ENSMUST00000103010.3	Lyn	ENSMUSG0000042228	LYN proto-oncogene, Src family tyrosine kinase Source MGI Symbol Acc MGI 96892
D03	SBM0683456	ENSMUST00000114754.7	Mapk14	ENSMUSG00000053436	mitogen-activated protein kinase 14 Source MGI Symbol Acc MGI 1346865
D04	SBM0798576	ENSMUST00000186432.2	Marco	ENSMUSG00000026390	macrophage receptor with collagenous structure Source MGI Symbol Acc MGI 1309998
D05	SBM0936795	ENSMUST00000025797.6	Mbl2	ENSMUSG0000024863	mannose-binding lectin (protein C) 2 Source MGI Symbol Acc MGI 96924
D06	SBM0681510	ENSMUST00000039450.4	Mcoln3	ENSMUSG00000036853	mucolipin 3 Source MGI Symbol Acc MGI 1890500
D07	SBM0937977	ENSMUST00000014505.4	Mertk	ENSMUSG0000014361	MER proto-oncogene tyrosine kinase Source MGI Symbol Acc MGI 96965
D08	SBM0810846	ENSMUST00000107409.4	Mfge8	ENSMUSG00000030605	milk fat globule-EGF factor 8 protein Source MGI Symbol Acc MGI 102768
D09	SBM0802241	ENSMUST00000218267.1	Mif	ENSMUSG00000033307	macrophage migration inhibitory factor (glycosylation-inhibiting factor) Source MGI Symbol Acc MGI 96982
D10	SBM1071206	ENSMUST00000149985.7	Msn	ENSMUSG00000031207	moesin Source MGI Symbol Acc MGI 97167
D11	SBM0986804	ENSMUST00000035092.6	Myd88	ENSMUSG00000032508	myeloid differentiation primary response gene 88 Source MGI Symbol Acc MGI 108005
D12	SBM0681489	ENSMUST00000205242.1	Nod1	ENSMUSG00000038058	nucleotide-binding oligomerization domain containing 1 Source MGI Symbol Acc MGI 1341839
E01	SBM1044090	ENSMUST00000068021.8	Pecam1	ENSMUSG00000020717	platelet/endothelial cell adhesion molecule 1 Source MGI Symbol Acc MGI 97537
E02	SBM1012041	ENSMUST00000124723.1	Pik3cb	ENSMUSG00000032462	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta Source MGI Symbol Acc MGI 1922019
E03	SBM1085455	ENSMUST00000145829.1	Pip5k1b	ENSMUSG00000024867	phosphatidylinositol-4-phosphate 5-kinase, type 1 beta Source MGI Symbol Acc MGI 107930
E04	SBM0965205	ENSMUST00000190507.1	Pla2g4a	ENSMUSG00000056220	phospholipase A2, group IVA (cytosolic, calcium-dependent) Source MGI Symbol Acc MGI 1195256
E05	SBM0852638	ENSMUST00000127183.7	Pla2g5	ENSMUSG00000041193	phospholipase A2, group V Source MGI Symbol Acc MGI 101899
E06	SBM0696678	ENSMUST00000123539.7	Pld1	ENSMUSG00000027695	phospholipase D1 Source MGI Symbol Acc MGI 109585
E07	SBM0728952	ENSMUST00000146248.1	Pld2	ENSMUSG00000020828	phospholipase D2 Source MGI Symbol Acc MGI 892877
E08	SBM0773765	ENSMUST00000150486.1	Prkce	ENSMUSG00000045038	protein kinase C, epsilon Source MGI Symbol Acc MGI 97599
E09	SBM1002242	ENSMUST00000023629.8	Pros1	ENSMUSG00000022912	protein S (alpha) Source MGI Symbol Acc MGI 1095733
E10	SBM1220566	ENSMUST00000013807.7	Pten	ENSMUSG0000013663	phosphatase and tensin homolog Source MGI Symbol Acc MGI 109583
E11	SBM0901489	ENSMUST00000017975.6	Rab5a	ENSMUSG0000017831	RAB5A, member RAS oncogene family Source MGI Symbol Acc MGI 105926
E12	SBM1067605	ENSMUST00000113596.7	Rab7	ENSMUSG00000079477	RAB7, member RAS oncogene family Source MGI Symbol Acc MGI 105068
F01	SBM0680406	ENSMUST00000145709.7	Rac1	ENSMUSG00000001847	Rac family small GTPase 1 Source MGI Symbol Acc MGI 97845
F02	SBM0876499	ENSMUST00000230952.1	Rac2	ENSMUSG00000033220	Rac family small GTPase 2 Source MGI Symbol Acc MGI 97846
F03	SBM0838677	ENSMUST00000223147.1	Rala	ENSMUSG0000008859	v-ral simian leukemia viral oncogene A (ras related) Source MGI Symbol Acc MGI 1927243
F04	SBM0955604	ENSMUST00000142945.2	Ralb	ENSMUSG0000004451	v-ral simian leukemia viral oncogene B Source MGI Symbol Acc MGI 1927244
F05	SBM1009757	ENSMUST00000129223.8	Rapgef3	ENSMUSG00000022469	Rap guanine nucleotide exchange factor (GEF) 3 Source MGI Symbol Acc MGI 2441741
F06	SBM0943773	ENSMUST00000194701.5	Rhoa	ENSMUSG00000007815	ras homolog family member A Source MGI Symbol Acc MGI 1096342
F07	SBM0905911	ENSMUST00000148373.7	Scarb1	ENSMUSG00000037936	scavenger receptor class B, member 1 Source MGI Symbol Acc MGI 893578
F08	SBM0809699	ENSMUST00000041388.10	Serpine1	ENSMUSG00000037411	serine (or cysteine) peptidase inhibitor, clade E, member 1 Source MGI Symbol Acc MGI 97608
F09	SBM0834442	ENSMUST00000077136.4	Sftpd	ENSMUSG00000021795	surfactant associated protein D Source MGI Symbol Acc MGI 109515
F10	SBM0877504	ENSMUST00000110227.7	Siglec1	ENSMUSG00000027322	sialic acid binding Ig-like lectin 1, sialoadhesin Source MGI Symbol Acc MGI 99668

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM0795618	ENSMUST00000194144.2	Sirpb1a	ENSMUSG0000095788	signal-regulatory protein beta 1A Source MGI Symbol Acc MGI 2444824
F12	SBM1078728	ENSMUST00000218366.1	Stab2	ENSMUSG0000035459	stabilin 2 Source MGI Symbol Acc MGI 2178743
G01	SBM0999335	ENSMUST00000114126.8	Stx18	ENSMUSG0000029125	syntaxin 18 Source MGI Symbol Acc MGI 1918366
G02	SBM0702487	ENSMUST00000120135.7	Syk	ENSMUSG0000021457	spleen tyrosine kinase Source MGI Symbol Acc MGI 99515
G03	SBM0904746	ENSMUST00000103122.9	Tgm2	ENSMUSG0000037820	transglutaminase 2, C polypeptide Source MGI Symbol Acc MGI 98731
G04	SBM0979664	ENSMUST00000058136.8	Ticam1	ENSMUSG0000047123	toll-like receptor adaptor molecule 1 Source MGI Symbol Acc MGI 2147032
G05	SBM0964228	ENSMUST00000209772.1	Tlr3	ENSMUSG0000031639	toll-like receptor 3 Source MGI Symbol Acc MGI 2156367
G06	SBM0973468	ENSMUST00000062241.10	Tlr9	ENSMUSG0000045322	toll-like receptor 9 Source MGI Symbol Acc MGI 1932389
G07	SBM0788439	ENSMUST00000025263.14	Tnf	ENSMUSG0000024401	tumor necrosis factor Source MGI Symbol Acc MGI 104798
G08	SBM1225403	ENSMUST00000022592.7	Tnfrsf11	ENSMUSG0000022015	tumor necrosis factor (ligand) superfamily, member 11 Source MGI Symbol Acc MGI 1100089
G09	SBM0965301	ENSMUST00000199371.1	P2rx7	ENSMUSG0000029468	purinergic receptor P2X, ligand-gated ion channel, 7 Source MGI Symbol Acc MGI 1339957
G10	SBM0771297	ENSMUST00000005889.15	Vav1	ENSMUSG0000034116	vav 1 oncogene Source MGI Symbol Acc MGI 98923
G11	SBM0977884	ENSMUST00000033505.6	Was	ENSMUSG0000031165	Wiskott-Aldrich syndrome Source MGI Symbol Acc MGI 105059
G12	SBM0893772	ENSMUST00000112272.1	Wnt5a	ENSMUSG0000021994	wingless-type MMTV integration site family, member 5A Source MGI Symbol Acc MGI 98958
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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