

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

Mouse Tight Junctions

Cat. no. 249950 SBMM-143ZR

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	Actn1	Actn2	Actn3	Actn4	Amotl1	Arhgef2	Ash1l	Map3k20	Cask	Cldn20	Cdc42	Cdk4
B	Cgn	Cldn1	Cldn10	Cldn11	Cldn12	Cldn14	Cldn15	Cldn16	Cldn17	Cldn18	Cldn19	Cldn2
C	Cldn3	Cldn4	Cldn5	Cldn6	Cldn7	Cldn8	Cldn9	Crb1	Crb3	Ybx3	Csnk2a1	Csnk2a2
D	Csnk2b	Cttna1	Cttna2	Cttna3	Cttnb1	Cttn	Epb41	Esam	F11r	Gnai1	Hcls1	Icam1
E	Icam2	Igsf5	Ilk	Patj	Jam2	Jam3	Lig1	Lig2	Magi1	Magi3	Mark2	Afdn
F	Mpdz	Mpp5	Mpp6	Ocln	Pard3	Pard6a	Pard6b	Pecam1	Prkci	Prkcz	Plen	Rac1
G	Rhoa	Smurf1	Spla1	Sptan1	Splb	Sympk	Tiam1	Tjp1	Tjp1	Tjp1	Tjp2	Tjp3
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	SBM1073207	ENSMUST00000220351.1	Actn1	ENSMUSG0000015143	actinin, alpha 1 Source MGI Symbol Acc MGI 2137706
A02	SBM1080837	ENSMUST00000064204.13	Actn2	ENSMUSG00000052374	actinin alpha 2 Source MGI Symbol Acc MGI 109192
A03	SBM0786527	ENSMUST00000006626.4	Actn3	ENSMUSG0000006457	actinin alpha 3 Source MGI Symbol Acc MGI 99678
A04	SBM1047081	ENSMUST00000217157.1	Actn4	ENSMUSG00000054808	actinin alpha 4 Source MGI Symbol Acc MGI 1890773
A05	SBM1021124	ENSMUST00000013220.7	Amotl1	ENSMUSG0000013076	angiomin-like 1 Source MGI Symbol Acc MGI 1922973
A06	SBM0886018	ENSMUST00000176400.7	Arhgef2	ENSMUSG0000028059	rho/rac guanine nucleotide exchange factor (GEF) 2 Source MGI Symbol Acc MGI 103264
A07	SBM0746685	ENSMUST00000189824.1	Ash1l	ENSMUSG0000028053	ASH1 like histone lysine methyltransferase Source MGI Symbol Acc MGI 2183158
A08	SBM0832490	ENSMUST00000135204.1	Map3k20	ENSMUSG0000004085	mitogen-activated protein kinase kinase kinase 20 Source MGI Symbol Acc MGI 2443258
A09	SBM1044698	ENSMUST00000132240.1	Cask	ENSMUSG00000031012	calcium/calmodulin-dependent serine protein kinase (MAGUK family) Source MGI Symbol Acc MGI 1309489
A10	SBM0765247	ENSMUST00000232647.1	Cldn20	ENSMUSG0000091530	claudin 20 Source MGI Symbol Acc MGI 3646757
A11	SBM1071094	ENSMUST00000030417.9	Cdc42	ENSMUSG0000006699	cell division cycle 42 Source MGI Symbol Acc MGI 106211
A12	SBM0702559	ENSMUST00000120226.7	Cdk4	ENSMUSG0000006728	cyclin-dependent kinase 4 Source MGI Symbol Acc MGI 88357
B01	SBM0985651	ENSMUST00000155485.2	Cgn	ENSMUSG0000068876	cingulin Source MGI Symbol Acc MGI 1927237
B02	SBM0759787	ENSMUST00000023154.2	Cldn1	ENSMUSG00000022512	claudin 1 Source MGI Symbol Acc MGI 1276109
B03	SBM0821396	ENSMUST00000071546.13	Cldn10	ENSMUSG00000022132	claudin 10 Source MGI Symbol Acc MGI 1913101
B04	SBM0807459	ENSMUST00000046174.7	Cldn11	ENSMUSG00000037625	claudin 11 Source MGI Symbol Acc MGI 106925
B05	SBM0906857	ENSMUST00000115446.7	Cldn12	ENSMUSG00000046798	claudin 12 Source MGI Symbol Acc MGI 1929288
B06	SBM0729770	ENSMUST00000137163.1	Cldn14	ENSMUSG00000047109	claudin 14 Source MGI Symbol Acc MGI 1860425
B07	SBM0733312	ENSMUST00000001790.5	Cldn15	ENSMUSG00000001739	claudin 15 Source MGI Symbol Acc MGI 1913103
B08	SBM1000305	ENSMUST00000161053.7	Cldn16	ENSMUSG00000038148	claudin 16 Source MGI Symbol Acc MGI 2148742
B09	SBM1036248	ENSMUST00000069549.2	Cldn17	ENSMUSG00000055811	claudin 17 Source MGI Symbol Acc MGI 2652030
B10	SBM0926903	ENSMUST00000136429.7	Cldn18	ENSMUSG00000032473	claudin 18 Source MGI Symbol Acc MGI 1929209
B11	SBM0704025	ENSMUST00000094823.3	Cldn19	ENSMUSG00000066058	claudin 19 Source MGI Symbol Acc MGI 3033992
B12	SBM0835590	ENSMUST00000054889.3	Cldn2	ENSMUSG00000047230	claudin 2 Source MGI Symbol Acc MGI 1276110
C01	SBM1002288	ENSMUST00000094245.3	Cldn3	ENSMUSG00000070473	claudin 3 Source MGI Symbol Acc MGI 1329044
C02	SBM0715143	ENSMUST00000051401.3	Cldn4	ENSMUSG00000047501	claudin 4 Source MGI Symbol Acc MGI 1313314
C03	SBM1063020	ENSMUST00000043577.2	Cldn5	ENSMUSG00000041378	claudin 5 Source MGI Symbol Acc MGI 1276112
C04	SBM1055283	ENSMUST00000024699.3	Cldn6	ENSMUSG00000023906	claudin 6 Source MGI Symbol Acc MGI 1859284
C05	SBM0724146	ENSMUST00000018713.12	Cldn7	ENSMUSG0000018569	claudin 7 Source MGI Symbol Acc MGI 1859285
C06	SBM0887355	ENSMUST00000049697.4	Cldn8	ENSMUSG00000050520	claudin 8 Source MGI Symbol Acc MGI 1859286
C07	SBM0859917	ENSMUST00000085989.7	Cldn9	ENSMUSG00000066720	claudin 9 Source MGI Symbol Acc MGI 1913100
C08	SBM1037228	ENSMUST00000200340.1	Crb1	ENSMUSG00000063681	crumbs family member 1, photoreceptor morphogenesis associated Source MGI Symbol Acc MGI 2136343
C09	SBM0792163	ENSMUST00000071826.9	Crb3	ENSMUSG00000044279	crumbs family member 3 Source MGI Symbol Acc MGI 2670904
C10	SBM0768138	ENSMUST00000087865.3	Ybx3	ENSMUSG00000030189	Y box protein 3 Source MGI Symbol Acc MGI 2137670
		ENSMUST000000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM0956396	124791.7	Csnk2a1	000074698	casein kinase 2, alpha 1 polypeptide Source MGI Symbol Acc MGI 88543
C12	SBM1019820	ENSMUST00000212441.1	Csnk2a2	ENSMUSG0000046707	casein kinase 2, alpha prime polypeptide Source MGI Symbol Acc MGI 88547
D01	SBM0897223	ENSMUST00000173114.7	Csnk2b	ENSMUSG0000024387	casein kinase 2, beta polypeptide Source MGI Symbol Acc MGI 88548
D02	SBM0712952	ENSMUST00000236571.1	Ctnna1	ENSMUSG0000037815	catenin (cadherin associated protein), alpha 1 Source MGI Symbol Acc MGI 88274
D03	SBM0948487	ENSMUST00000075340.11	Ctnna2	ENSMUSG0000063063	catenin (cadherin associated protein), alpha 2 Source MGI Symbol Acc MGI 88275
D04	SBM0993478	ENSMUST00000075099.4	Ctnna3	ENSMUSG0000060843	catenin (cadherin associated protein), alpha 3 Source MGI Symbol Acc MGI 2661445
D05	SBM1021462	ENSMUST00000007130.14	Ctnnb1	ENSMUSG0000006932	catenin (cadherin associated protein), beta 1 Source MGI Symbol Acc MGI 88276
D06	SBM0987219	ENSMUST00000033407.12	Ctfn	ENSMUSG0000031078	cortactin Source MGI Symbol Acc MGI 99695
D07	SBM0860697	ENSMUST00000144754.7	Epb41	ENSMUSG0000028906	erythrocyte membrane protein band 4.1 Source MGI Symbol Acc MGI 95401
D08	SBM0973528	ENSMUST00000146860.7	Esam	ENSMUSG0000001946	endothelial cell-specific adhesion molecule Source MGI Symbol Acc MGI 1916774
D09	SBM1054242	ENSMUST00000043839.4	F11r	ENSMUSG0000038235	F11 receptor Source MGI Symbol Acc MGI 1321398
D10	SBM0770391	ENSMUST00000074694.6	Gnai1	ENSMUSG0000057614	guanine nucleotide binding protein (G protein), alpha inhibiting 1 Source MGI Symbol Acc MGI 95771
D11	SBM0923977	ENSMUST00000023531.14	Hcls1	ENSMUSG0000022831	hematopoietic cell specific Lyn substrate 1 Source MGI Symbol Acc MGI 104568
D12	SBM0806584	ENSMUST000000215003.1	Icam1	ENSMUSG0000037405	intercellular adhesion molecule 1 Source MGI Symbol Acc MGI 96392
E01	SBM0795564	ENSMUST000000106813.8	Icam2	ENSMUSG0000001029	intercellular adhesion molecule 2 Source MGI Symbol Acc MGI 96394
E02	SBM1038854	ENSMUST00000000163.12	Igsf5	ENSMUSG0000000159	immunoglobulin superfamily, member 5 Source MGI Symbol Acc MGI 1919308
E03	SBM0904671	ENSMUST00000033182.9	Ilk	ENSMUSG0000030890	integrin linked kinase Source MGI Symbol Acc MGI 1195267
E04	SBM0991983	ENSMUST00000041284.9	Patj	ENSMUSG0000061859	PATJ, crumbs cell polarity complex component Source MGI Symbol Acc MGI 1277960
E05	SBM0855510	ENSMUST000000231910.1	Jam2	ENSMUSG0000053062	junction adhesion molecule 2 Source MGI Symbol Acc MGI 1933820
E06	SBM1014326	ENSMUST000000213682.1	Jam3	ENSMUSG0000031990	junction adhesion molecule 3 Source MGI Symbol Acc MGI 1933825
E07	SBM0791464	ENSMUST00000052346.9	Llgl1	ENSMUSG0000020536	LLGL1 scribble cell polarity complex component Source MGI Symbol Acc MGI 102682
E08	SBM0941391	ENSMUST000000177736.7	Llgl2	ENSMUSG0000020782	LLGL2 scribble cell polarity complex component Source MGI Symbol Acc MGI 1918843
E09	SBM0914422	ENSMUST000000205116.2	Magi1	ENSMUSG0000045095	membrane associated guanylate kinase, WW and PDZ domain containing 1 Source MGI Symbol Acc MGI 1203522
E10	SBM0985126	ENSMUST000000064371.13	Magi3	ENSMUSG0000052539	membrane associated guanylate kinase, WW and PDZ domain containing 3 Source MGI Symbol Acc MGI 1923484
E11	SBM0852288	ENSMUST00000025921.14	Mark2	ENSMUSG0000024969	MAP/microtubule affinity regulating kinase 2 Source MGI Symbol Acc MGI 99638
E12	SBM0992790	ENSMUST000000170827.8	Afdn	ENSMUSG0000068036	afadin, adherens junction formation factor Source MGI Symbol Acc MGI 1314653
F01	SBM0717894	ENSMUST000000129732.1	Mpdz	ENSMUSG0000028402	multiple PDZ domain protein Source MGI Symbol Acc MGI 1343489
F02	SBM0948445	ENSMUST000000082024.6	Mpp5	ENSMUSG0000021112	membrane protein, palmitoylated 5 (MAGUK p55 subfamily member 5) Source MGI Symbol Acc MGI 1927339
F03	SBM0826878	ENSMUST000000036236.14	Mpp6	ENSMUSG0000038388	membrane protein, palmitoylated 6 (MAGUK p55 subfamily member 6) Source MGI Symbol Acc MGI 1927340
F04	SBM1083398	ENSMUST000000159515.1	Ocln	ENSMUSG0000021638	occludin Source MGI Symbol Acc MGI 106183
F05	SBM0952015	ENSMUST000000162309.7	Pard3	ENSMUSG0000025812	par-3 family cell polarity regulator Source MGI Symbol Acc MGI 2135608
F06	SBM1047780	ENSMUST000000212430.1	Pard6a	ENSMUSG0000005699	par-6 family cell polarity regulator alpha Source MGI Symbol Acc MGI 1927223
F07	SBM0895139	ENSMUST000000052125.6	Pard6b	ENSMUSG0000044641	par-6 family cell polarity regulator beta Source MGI Symbol Acc MGI 2135605
F08	SBM1044090	ENSMUST000000068021.8	Pecam1	ENSMUSG0000020717	platelet/endothelial cell adhesion molecule 1 Source MGI Symbol Acc MGI 97537
F09	SBM0705298	ENSMUST000000108249.8	Prkci	ENSMUSG0000037643	protein kinase C, iota Source MGI Symbol Acc MGI 99260
F10	SBM0723762	ENSMUST000000139647.7	Prkcz	ENSMUSG0000029053	protein kinase C, zeta Source MGI Symbol Acc MGI 97602

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM1220566	ENSMUST00000013807.7	Pten	ENSMUSG00000013663	phosphatase and tensin homolog Source MGI Symbol Acc MGI 109583
F12	SBM0680406	ENSMUST00000145709.7	Rac1	ENSMUSG00000001847	Rac family small GTPase 1 Source MGI Symbol Acc MGI 97845
G01	SBM0943773	ENSMUST00000194701.5	Rhoa	ENSMUSG00000007815	ras homolog family member A Source MGI Symbol Acc MGI 1096342
G02	SBM0958661	ENSMUST00000110677.7	Smurf1	ENSMUSG00000038780	SMAD specific E3 ubiquitin protein ligase 1 Source MGI Symbol Acc MGI 1923038
G03	SBM0966564	ENSMUST00000027817.7	Spta1	ENSMUSG00000026532	spectrin alpha, erythrocytic 1 Source MGI Symbol Acc MGI 98385
G04	SBM0816791	ENSMUST00000113719.8	Sptan1	ENSMUSG00000057738	spectrin alpha, non-erythrocytic 1 Source MGI Symbol Acc MGI 98386
G05	SBM0674929	ENSMUST00000166101.1	Sptb	ENSMUSG00000021061	spectrin beta, erythrocytic Source MGI Symbol Acc MGI 98387
G06	SBM1003748	ENSMUST00000148861.7	Sympk	ENSMUSG00000023118	symplesin Source MGI Symbol Acc MGI 1915438
G07	SBM0797666	ENSMUST00000144691.8	Tiam1	ENSMUSG00000002489	T cell lymphoma invasion and metastasis 1 Source MGI Symbol Acc MGI 103306
G08	SBM1086727	ENSMUST00000224230.1	Tjap1	ENSMUSG00000012296	tight junction associated protein 1 Source MGI Symbol Acc MGI 1921344
G09	SBM0797397	ENSMUST00000144961.1	Tjp1	ENSMUSG00000030516	tight junction protein 1 Source MGI Symbol Acc MGI 98759
G10	SBM0690219	ENSMUST00000099558.4	Tjp2	ENSMUSG00000024812	tight junction protein 2 Source MGI Symbol Acc MGI 1341872
G11	SBM0683741	ENSMUST00000219479.1	Tjp3	ENSMUSG00000034917	tight junction protein 3 Source MGI Symbol Acc MGI 1351650
G12	SBM1053902	ENSMUST00000024897.9	Vapa	ENSMUSG00000024091	vesicle-associated membrane protein, associated protein A Source MGI Symbol Acc MGI 1353561
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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