

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

Mouse Cell Motility

Cat. no. 249950 SBMM-128ZA

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	Myl12a	Actn1	Actn3	Actn4	Actr2	Actr3	Akt1	Air6	Arhgdia	Arhgef7	Baiap2	Bcar1
B	Capn1	Capn2	Cav1	Cdc42	Cfl1	Crk	Csf1	Ctnn	Diaph1	Dpp4	Egf	Egfr
C	Enah	Esr	Fap	Fgf2	Hgf	Igf1	Igf1r	Ilk	Itga4	Itgb1	Itgb2	Itgb3
D	Limk1	Mapk1	Met	Mmp14	Mmp2	Mmp9	Msn	Myh10	Myh9	Myk	Pak1	Pak4
E	Pfn1	Pik3ca	Plaur	Plcg1	Pld1	Prkca	Pten	Plk2	Plk2b	Ptpn1	Pxn	Rac1
F	Rac2	Rasa1	Rdx	Rho	Rhoa	Rhob	Rhoc	Rnd3	Rock1	Sh3pd2a	Src	Stat3
G	Svil	Tgfb1	Timp2	Tln1	Vasp	Vcl	Vegfa	Vim	Wsf1	Wsf2	Wsl	Wipf1
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	SBM0692397	ENSMUST00000024846.12	Myl12a	ENSMUSG0000024048	myosin, light chain 12A, regulatory, non-sarcomeric Source MGI Symbol Acc MGI 1914518
A02	SBM1073207	ENSMUST00000220351.1	Actn1	ENSMUSG0000015143	actinin, alpha 1 Source MGI Symbol Acc MGI 2137706
A03	SBM0786527	ENSMUST00000006626.4	Actn3	ENSMUSG0000006457	actinin alpha 3 Source MGI Symbol Acc MGI 99678
A04	SBM1047081	ENSMUST00000217157.1	Actn4	ENSMUSG0000054808	actinin alpha 4 Source MGI Symbol Acc MGI 1890773
A05	SBM0738261	ENSMUST00000000137.7	Acr2	ENSMUSG0000020152	ARP2 actin-related protein 2 Source MGI Symbol Acc MGI 1913963
A06	SBM0673509	ENSMUST00000027579.16	Acr3	ENSMUSG0000026341	ARP3 actin-related protein 3 Source MGI Symbol Acc MGI 1921367
A07	SBM1020452	ENSMUST00000144550.8	Akt1	ENSMUSG0000001729	thymoma viral proto-oncogene 1 Source MGI Symbol Acc MGI 87986
A08	SBM0725099	ENSMUST00000050063.8	Arf6	ENSMUSG0000044147	ADP-ribosylation factor 6 Source MGI Symbol Acc MGI 99435
A09	SBM0909860	ENSMUST00000067936.5	Arhgdia	ENSMUSG0000025132	Rho GDP dissociation inhibitor (GDI) alpha Source MGI Symbol Acc MGI 2178103
A10	SBM0758253	ENSMUST00000033908.13	Arhgef7	ENSMUSG0000031511	Rho guanine nucleotide exchange factor (GEF7) Source MGI Symbol Acc MGI 1860493
A11	SBM0869408	ENSMUST00000106231.7	Baiap2	ENSMUSG0000025372	brain-specific angiogenesis inhibitor 1-associated protein 2 Source MGI Symbol Acc MGI 2137336
A12	SBM0949522	ENSMUST00000166232.3	Bcar1	ENSMUSG0000031955	breast cancer anti-estrogen resistance 1 Source MGI Symbol Acc MGI 108091
B01	SBM0913802	ENSMUST00000025891.9	Capn1	ENSMUSG0000024942	calpain 1 Source MGI Symbol Acc MGI 88263
B02	SBM0807527	ENSMUST00000194961.1	Capn2	ENSMUSG0000026509	calpain 2 Source MGI Symbol Acc MGI 88264
B03	SBM0727943	ENSMUST00000115454.1	Cav1	ENSMUSG0000007655	caveolin 1, caveolae protein Source MGI Symbol Acc MGI 102709
B04	SBM1071094	ENSMUST00000030417.9	Cdc42	ENSMUSG0000006699	cell division cycle 42 Source MGI Symbol Acc MGI 106211
B05	SBM1037893	ENSMUST00000236645.1	Cfl1	ENSMUSG0000056201	cofilin 1, non-muscle Source MGI Symbol Acc MGI 101757
B06	SBM0856740	ENSMUST00000108425.7	Crk	ENSMUSG0000017776	v-crk avian sarcoma virus CT10 oncogene homolog Source MGI Symbol Acc MGI 88508
B07	SBM0903322	ENSMUST00000155557.1	Csf1	ENSMUSG0000014599	colony stimulating factor 1 (macrophage) Source MGI Symbol Acc MGI 1339753
B08	SBM0987219	ENSMUST00000033407.12	Ctnn	ENSMUSG0000031078	cortactin Source MGI Symbol Acc MGI 99695
B09	SBM0886537	ENSMUST00000129688.1	Diaph1	ENSMUSG0000024456	diaphanous related formin 1 Source MGI Symbol Acc MGI 1194490
B10	SBM0812511	ENSMUST00000047812.7	Dpp4	ENSMUSG0000035000	dipeptidylpeptidase 4 Source MGI Symbol Acc MGI 94919
B11	SBM1005237	ENSMUST00000197079.4	Egf	ENSMUSG0000028017	epidermal growth factor Source MGI Symbol Acc MGI 95290
B12	SBM1033270	ENSMUST00000020329.12	Egfr	ENSMUSG0000020122	epidermal growth factor receptor Source MGI Symbol Acc MGI 95294
C01	SBM1062338	ENSMUST00000177811.7	Enah	ENSMUSG0000022995	ENAH actin regulator Source MGI Symbol Acc MGI 108360
C02	SBM0980731	ENSMUST00000064234.6	Ezr	ENSMUSG0000052397	ezrin Source MGI Symbol Acc MGI 98931
C03	SBM0755490	ENSMUST00000172676.7	Fap	ENSMUSG0000000392	fibroblast activation protein Source MGI Symbol Acc MGI 109608
C04	SBM0959713	ENSMUST00000138563.8	Fgf2	ENSMUSG0000037225	fibroblast growth factor 2 Source MGI Symbol Acc MGI 95516
C05	SBM0858725	ENSMUST00000200189.4	Hgf	ENSMUSG0000028864	hepatocyte growth factor Source MGI Symbol Acc MGI 96079
C06	SBM1026650	ENSMUST00000122386.7	Igf1	ENSMUSG0000020053	insulin-like growth factor 1 Source MGI Symbol Acc MGI 96432
C07	SBM0769269	ENSMUST00000207621.1	Igf1r	ENSMUSG0000005533	insulin-like growth factor I receptor Source MGI Symbol Acc MGI 96433
C08	SBM0904671	ENSMUST00000033182.9	Ilk	ENSMUSG0000030890	integrin linked kinase Source MGI Symbol Acc MGI 1195267
C09	SBM0718988	ENSMUST00000126312.1	Itga4	ENSMUSG0000027009	integrin alpha 4 Source MGI Symbol Acc MGI 96603
C10	SBM0691612	ENSMUST00000090006.11	Itgb1	ENSMUSG0000025809	integrin beta 1 (fibronectin receptor beta) Source MGI Symbol Acc MGI 96610
		ENSMUST000000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM0947975	131023.7	Itgb2	000000290	integrin beta 2 Source MGI Symbol Acc MGI 96611
C12	SBM0851696	ENSMUST00000127140.2	Itgb3	ENSMUSG0000020689	integrin beta 3 Source MGI Symbol Acc MGI 96612
D01	SBM0769302	ENSMUST00000134093.1	Limk1	ENSMUSG0000029674	LIM-domain containing, protein kinase Source MGI Symbol Acc MGI 104572
D02	SBM0800614	ENSMUST00000231821.1	Mapk1	ENSMUSG0000063358	mitogen-activated protein kinase 1 Source MGI Symbol Acc MGI 1346858
D03	SBM1055926	ENSMUST00000115442.7	Met	ENSMUSG0000009376	met proto-oncogene Source MGI Symbol Acc MGI 96969
D04	SBM0735844	ENSMUST00000197947.1	Mmp14	ENSMUSG0000000957	matrix metalloproteinase 14 (membrane-inserted) Source MGI Symbol Acc MGI 101900
D05	SBM0690200	ENSMUST00000034187.8	Mmp2	ENSMUSG0000031740	matrix metalloproteinase 2 Source MGI Symbol Acc MGI 97009
D06	SBM1089430	ENSMUST00000017881.2	Mmp9	ENSMUSG0000017737	matrix metalloproteinase 9 Source MGI Symbol Acc MGI 97011
D07	SBM1071206	ENSMUST00000149985.7	Msn	ENSMUSG0000031207	moesin Source MGI Symbol Acc MGI 97167
D08	SBM0882827	ENSMUST00000155765.1	Myh10	ENSMUSG0000020900	myosin, heavy polypeptide 10, non-muscle Source MGI Symbol Acc MGI 1930780
D09	SBM1084443	ENSMUST00000124844.7	Myh9	ENSMUSG0000022443	myosin, heavy polypeptide 9, non-muscle Source MGI Symbol Acc MGI 107717
D10	SBM0720049	ENSMUST00000231589.1	Mylk	ENSMUSG0000022836	myosin, light polypeptide kinase Source MGI Symbol Acc MGI 894806
D11	SBM0746109	ENSMUST00000033040.1.1	Pak1	ENSMUSG0000030774	p21 (RAC1) activated kinase 1 Source MGI Symbol Acc MGI 1339975
D12	SBM0701424	ENSMUST00000108283.7	Pak4	ENSMUSG0000030602	p21 (RAC1) activated kinase 4 Source MGI Symbol Acc MGI 1917834
E01	SBM0841943	ENSMUST00000018437.2	Pfn1	ENSMUSG0000018293	profilin 1 Source MGI Symbol Acc MGI 97549
E02	SBM0905151	ENSMUST00000108243.7	Pik3ca	ENSMUSG0000027665	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha Source MGI Symbol Acc MGI 1206581
E03	SBM0732269	ENSMUST00000206514.1	Plaur	ENSMUSG0000046223	plasminogen activator, urokinase receptor Source MGI Symbol Acc MGI 97612
E04	SBM0816988	ENSMUST00000017077.1.3	Plcg1	ENSMUSG0000016933	phospholipase C, gamma 1 Source MGI Symbol Acc MGI 97615
E05	SBM0696678	ENSMUST00000123539.7	Pld1	ENSMUSG0000027695	phospholipase D1 Source MGI Symbol Acc MGI 109585
E06	SBM0890328	ENSMUST00000100302.3	Prkca	ENSMUSG0000050965	protein kinase C, alpha Source MGI Symbol Acc MGI 97595
E07	SBM1220566	ENSMUST00000013807.7	Pten	ENSMUSG0000013663	phosphatase and tensin homolog Source MGI Symbol Acc MGI 109583
E08	SBM0988125	ENSMUST00000227569.1	Ptk2	ENSMUSG0000022607	PTK2 protein tyrosine kinase 2 Source MGI Symbol Acc MGI 95481
E09	SBM0817798	ENSMUST00000022622.1.3	Ptk2b	ENSMUSG0000059456	PTK2 protein tyrosine kinase 2 beta Source MGI Symbol Acc MGI 104908
E10	SBM0939941	ENSMUST00000142717.1	Pltpn1	ENSMUSG0000027540	protein tyrosine phosphatase, non-receptor type 1 Source MGI Symbol Acc MGI 97805
E11	SBM1014993	ENSMUST00000086523.6	Pxn	ENSMUSG0000029528	paxillin Source MGI Symbol Acc MGI 108295
E12	SBM0680406	ENSMUST00000145709.7	Rac1	ENSMUSG000001847	Rac family small GTPase 1 Source MGI Symbol Acc MGI 97845
F01	SBM0876499	ENSMUST00000230952.1	Rac2	ENSMUSG0000033220	Rac family small GTPase 2 Source MGI Symbol Acc MGI 97846
F02	SBM0974354	ENSMUST00000109552.2	Rasa1	ENSMUSG0000021549	RAS p21 protein activator 1 Source MGI Symbol Acc MGI 97860
F03	SBM0856664	ENSMUST00000061352.10	Rdx	ENSMUSG0000032050	radixin Source MGI Symbol Acc MGI 97887
F04	SBM1049676	ENSMUST00000204711.2	Rho	ENSMUSG0000030324	rhodopsin Source MGI Symbol Acc MGI 97914
F05	SBM0943773	ENSMUST00000194701.5	Rhoa	ENSMUSG0000007815	ras homolog family member A Source MGI Symbol Acc MGI 1096342
F06	SBM0814150	ENSMUST00000067384.5	Rhob	ENSMUSG0000054364	ras homolog family member B Source MGI Symbol Acc MGI 107949
F07	SBM0701074	ENSMUST00000106787.7	Rhoc	ENSMUSG0000002233	ras homolog family member C Source MGI Symbol Acc MGI 106028
F08	SBM0922846	ENSMUST00000154545.1	Rnd3	ENSMUSG0000017144	Rho family GTPase 3 Source MGI Symbol Acc MGI 1921444
F09	SBM0761820	ENSMUST00000067947.6	Rock1	ENSMUSG0000024290	Rho-associated coiled-coil containing protein kinase 1 Source MGI Symbol Acc MGI 107927
F10	SBM1092811	ENSMUST00000237796.1	Sh3pxd2a	ENSMUSG0000053617	SH3 and PX domains 2A Source MGI Symbol Acc MGI 1298393

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM1051097	ENSMUST00000029175.13	Src	ENSMUSG00000027646	Rous sarcoma oncogene Source MGI Symbol Acc MGI 98397
F12	SBM0821931	ENSMUST00000103114.7	Stat3	ENSMUSG0000004040	signal transducer and activator of transcription 3 Source MGI Symbol Acc MGI 103038
G01	SBM0766835	ENSMUST00000129543.1	Svil	ENSMUSG00000024236	supervillin Source MGI Symbol Acc MGI 2147319
G02	SBM0850388	ENSMUST00000002678.9	Tgfb1	ENSMUSG0000002603	transforming growth factor, beta 1 Source MGI Symbol Acc MGI 98725
G03	SBM0732357	ENSMUST00000155707.2	Timp2	ENSMUSG0000017466	tissue inhibitor of metalloproteinase 2 Source MGI Symbol Acc MGI 98753
G04	SBM0773126	ENSMUST00000125509.1	Tln1	ENSMUSG00000028465	talin 1 Source MGI Symbol Acc MGI 1099832
G05	SBM0686532	ENSMUST00000032561.8	Vasp	ENSMUSG00000030403	vasodilator-stimulated phosphoprotein Source MGI Symbol Acc MGI 109268
G06	SBM1054485	ENSMUST00000022369.8	Vcl	ENSMUSG00000021823	vinculin Source MGI Symbol Acc MGI 98927
G07	SBM1079198	ENSMUST00000217017.1	Vegfa	ENSMUSG00000023951	vascular endothelial growth factor A Source MGI Symbol Acc MGI 103178
G08	SBM0684573	ENSMUST00000028062.7	Vim	ENSMUSG00000026728	vimentin Source MGI Symbol Acc MGI 98932
G09	SBM1018765	ENSMUST00000105509.1	Wasf1	ENSMUSG0000019831	WAS protein family, member 1 Source MGI Symbol Acc MGI 1890563
G10	SBM1055204	ENSMUST00000084241.11	Wasf2	ENSMUSG00000028868	WAS protein family, member 2 Source MGI Symbol Acc MGI 1098641
G11	SBM0962503	ENSMUST00000041737.7	Wasl	ENSMUSG00000029684	Wiskott-Aldrich syndrome-like (human) Source MGI Symbol Acc MGI 1920428
G12	SBM0691091	ENSMUST00000151939.1	Wipf1	ENSMUSG00000075284	WAS/WASL interacting protein family, member 1 Source MGI Symbol Acc MGI 2178801
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 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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