

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

Mouse Female Infertility

Cat. no. 249950 SBMM-164ZR

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	Akt1	Anxa2	Apod	Ar	Areg	Bax	Bcl2	C2	C3	Calca	Casp3	Ccl5
B	Ccnb1	Cd55	Cdh1	Cfd	Cldn4	Comp	Crabp2	Csf1	Ctnnb1	Cxcl12	Dkk1	Egf
C	Egfr	Esr1	Esr2	F3	Fbn1	Fn1	Gadd45a	Gast	Gdf15	Gpx3	Hbegf	Hoxa10
D	Hoxa11	Icam1	Igf1	Igfbp1	Il11	Il15	Il1a	Il1b	Il1r1	Il6	Ilga4	Ilgav
E	Ilgb3	Kdr	Lama1	Lamc2	Lep	Lif	Lifr	Maoa	Mid1	Mki67	Mmp2	Mmp7
F	Mmp9	Msx1	Muc1	Olfm1	Pcna	Pgf	Pgr	Prl	Plgs1	Plgs2	Sell	Sfrp4
G	Sod1	Spp1	Stat3	Stmn1	Tgfb1	Timp1	Tnf	Tnfrsf10b	Trp53	Vcam1	Vegfa	Wnt2
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	SBM1020452	ENSMUST00000144550.8	Akt1	ENSMUSG0000001729	thymoma viral proto-oncogene 1 Source MGI Symbol Acc MGI 87986
A02	SBM0732788	ENSMUST00000136282.2	Anxa2	ENSMUSG00000032231	annexin A2 Source MGI Symbol Acc MGI 88246
A03	SBM0995501	ENSMUST00000130560.7	Apod	ENSMUSG00000022548	apolipoprotein D Source MGI Symbol Acc MGI 88056
A04	SBM0829583	ENSMUST00000052837.8	Ar	ENSMUSG00000046532	androgen receptor Source MGI Symbol Acc MGI 88064
A05	SBM0693356	ENSMUST00000031325.5	Areg	ENSMUSG00000029378	amphiregulin Source MGI Symbol Acc MGI 88068
A06	SBM0740166	ENSMUST00000211615.1	Bax	ENSMUSG0000003873	BCL2-associated X protein Source MGI Symbol Acc MGI 99702
A07	SBM0876340	ENSMUST00000189999.1	Bcl2	ENSMUSG00000057329	B cell leukemia/lymphoma 2 Source MGI Symbol Acc MGI 88138
A08	SBM0675495	ENSMUST00000025230.14	C2	ENSMUSG00000024371	complement component 2 (within H-2S) Source MGI Symbol Acc MGI 88226
A09	SBM0754550	ENSMUST00000024988.14	C3	ENSMUSG00000024164	complement component 3 Source MGI Symbol Acc MGI 88227
A10	SBM0833704	ENSMUST00000206156.1	Calca	ENSMUSG00000030669	calcitonin/calcitonin-related polypeptide, alpha Source MGI Symbol Acc MGI 2151253
A11	SBM0732165	ENSMUST00000093517.6	Casp3	ENSMUSG00000031628	caspase 3 Source MGI Symbol Acc MGI 107739
A12	SBM0703029	ENSMUST00000125015.1	Ccl5	ENSMUSG00000035042	chemokine (C-C motif) ligand 5 Source MGI Symbol Acc MGI 98262
B01	SBM0677113	ENSMUST00000147790.1	Ccnb1	ENSMUSG00000041431	cyclin B1 Source MGI Symbol Acc MGI 88302
B02	SBM0875337	ENSMUST00000027650.12	Cd55	ENSMUSG00000026399	CD55 molecule, decay accelerating factor for complement Source MGI Symbol Acc MGI 104850
B03	SBM0815100	ENSMUST00000136580.1	Cdh1	ENSMUSG00000000303	cadherin 1 Source MGI Symbol Acc MGI 88354
B04	SBM0729233	ENSMUST00000061653.8	Cfd	ENSMUSG00000061780	complement factor D (adipsin) Source MGI Symbol Acc MGI 87931
B05	SBM0715143	ENSMUST00000051401.3	Cldn4	ENSMUSG00000047501	claudin 4 Source MGI Symbol Acc MGI 1313314
B06	SBM0945561	ENSMUST00000003659.8	Comp	ENSMUSG00000031849	cartilage oligomeric matrix protein Source MGI Symbol Acc MGI 88469
B07	SBM0900309	ENSMUST00000005019.5	Crabp2	ENSMUSG00000004885	cellular retinoic acid binding protein II Source MGI Symbol Acc MGI 88491
B08	SBM0903322	ENSMUST00000155557.1	Csf1	ENSMUSG00000014599	colony stimulating factor 1 (macrophage) Source MGI Symbol Acc MGI 1339753
B09	SBM1021462	ENSMUST00000007130.14	Ctlnb1	ENSMUSG00000006932	catenin (cadherin associated protein), beta 1 Source MGI Symbol Acc MGI 88276
B10	SBM0703161	ENSMUST00000134244.1	Cxcl12	ENSMUSG00000061353	chemokine (C-X-C motif) ligand 12 Source MGI Symbol Acc MGI 103556
B11	SBM0673405	ENSMUST00000025803.8	Dkk1	ENSMUSG00000024868	dickkopf WNT signaling pathway inhibitor 1 Source MGI Symbol Acc MGI 1329040
B12	SBM1005237	ENSMUST00000197079.4	Egf	ENSMUSG00000028017	epidermal growth factor Source MGI Symbol Acc MGI 95290
C01	SBM1033270	ENSMUST00000020329.12	Egfr	ENSMUSG00000020122	epidermal growth factor receptor Source MGI Symbol Acc MGI 95294
C02	SBM0745819	ENSMUST00000067086.13	Esr1	ENSMUSG00000019768	estrogen receptor 1 (alpha) Source MGI Symbol Acc MGI 1352467
C03	SBM0969315	ENSMUST00000101291.10	Esr2	ENSMUSG00000021055	estrogen receptor 2 (beta) Source MGI Symbol Acc MGI 109392
C04	SBM0963811	ENSMUST00000029771.12	F3	ENSMUSG00000028128	coagulation factor III Source MGI Symbol Acc MGI 88381
C05	SBM0858319	ENSMUST00000148272.1	Fbn1	ENSMUSG00000027204	fibillin 1 Source MGI Symbol Acc MGI 95489
C06	SBM0934692	ENSMUST00000185408.6	Fn1	ENSMUSG00000026193	fibronectin 1 Source MGI Symbol Acc MGI 95566
C07	SBM0962210	ENSMUST00000151958.1	Gadd45a	ENSMUSG00000036390	growth arrest and DNA-damage-inducible 45 alpha Source MGI Symbol Acc MGI 107799
C08	SBM1093177	ENSMUST00000017309.1	Gast	ENSMUSG00000017165	gastrin Source MGI Symbol Acc MGI 104768
C09	SBM1020220	ENSMUST00000003808.7	Gdf15	ENSMUSG00000038508	growth differentiation factor 15 Source MGI Symbol Acc MGI 1346047
C10	SBM0906281	ENSMUST00000149324.1	Gpx3	ENSMUSG00000018339	glutathione peroxidase 3 Source MGI Symbol Acc MGI 105102
		ENSMUST00000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM0904142	025363.6	Hbegf	000024486	heparin-binding EGF-like growth factor Source MGI Symbol Acc MGI 96070
C12	SBM0884140	ENSMUST00000125581.1	Hoxa10	ENSMUSG0000000938	homeobox A10 Source MGI Symbol Acc MGI 96171
D01	SBM1029418	ENSMUST00000048026.9	Hoxa11	ENSMUSG00000038210	homeobox A11 Source MGI Symbol Acc MGI 96172
D02	SBM0806584	ENSMUST00000215003.1	Icam1	ENSMUSG00000037405	intercellular adhesion molecule 1 Source MGI Symbol Acc MGI 96392
D03	SBM1026650	ENSMUST00000122386.7	Igf1	ENSMUSG00000020053	insulin-like growth factor 1 Source MGI Symbol Acc MGI 96432
D04	SBM0763834	ENSMUST00000020704.7	Igfbp1	ENSMUSG00000020429	insulin-like growth factor binding protein 1 Source MGI Symbol Acc MGI 96436
D05	SBM0752881	ENSMUST00000094892.11	Il11	ENSMUSG0000004371	interleukin 11 Source MGI Symbol Acc MGI 107613
D06	SBM0737685	ENSMUST00000034148.6	Il15	ENSMUSG00000031712	interleukin 15 Source MGI Symbol Acc MGI 103014
D07	SBM1007460	ENSMUST00000028882.1	Il1a	ENSMUSG00000027399	interleukin 1 alpha Source MGI Symbol Acc MGI 96542
D08	SBM0738485	ENSMUST00000028881.13	Il1b	ENSMUSG00000027398	interleukin 1 beta Source MGI Symbol Acc MGI 96543
D09	SBM1086348	ENSMUST00000027241.10	Il1r1	ENSMUSG00000026072	interleukin 1 receptor, type I Source MGI Symbol Acc MGI 96545
D10	SBM0742623	ENSMUST00000026845.11	Il6	ENSMUSG00000025746	interleukin 6 Source MGI Symbol Acc MGI 96559
D11	SBM0718988	ENSMUST00000126312.1	Itga4	ENSMUSG00000027009	integrin alpha 4 Source MGI Symbol Acc MGI 96603
D12	SBM0710817	ENSMUST00000151463.1	Itgav	ENSMUSG00000027087	integrin alpha V Source MGI Symbol Acc MGI 96608
E01	SBM0851696	ENSMUST00000127140.2	Itgb3	ENSMUSG00000020689	integrin beta 3 Source MGI Symbol Acc MGI 96612
E02	SBM0947462	ENSMUST00000149573.1	Kdr	ENSMUSG00000062960	kinase insert domain protein receptor Source MGI Symbol Acc MGI 96683
E03	SBM0711087	ENSMUST00000233224.1	Lama1	ENSMUSG00000032796	laminin, alpha 1 Source MGI Symbol Acc MGI 99892
E04	SBM0978997	ENSMUST00000027753.12	Lamc2	ENSMUSG00000026479	laminin, gamma 2 Source MGI Symbol Acc MGI 99913
E05	SBM0718370	ENSMUST00000169505.1	Lep	ENSMUSG00000059201	leptin Source MGI Symbol Acc MGI 104663
E06	SBM0873612	ENSMUST00000066283.11	Lif	ENSMUSG00000034394	leukemia inhibitory factor Source MGI Symbol Acc MGI 96787
E07	SBM0699496	ENSMUST00000067190.11	Lifr	ENSMUSG00000054263	LIF receptor alpha Source MGI Symbol Acc MGI 96788
E08	SBM0886215	ENSMUST00000026013.5	Maoa	ENSMUSG00000025037	monoamine oxidase A Source MGI Symbol Acc MGI 96915
E09	SBM0741474	ENSMUST00000036753.11	Mid1	ENSMUSG00000035299	midline 1 Source MGI Symbol Acc MGI 1100537
E10	SBM0976366	ENSMUST00000211238.1	Mki67	ENSMUSG00000031004	antigen identified by monoclonal antibody Ki 67 Source MGI Symbol Acc MGI 106035
E11	SBM0690200	ENSMUST00000034187.8	Mmp2	ENSMUSG00000031740	matrix metalloproteinase 2 Source MGI Symbol Acc MGI 97009
E12	SBM0709342	ENSMUST00000018767.7	Mmp7	ENSMUSG00000018623	matrix metalloproteinase 7 Source MGI Symbol Acc MGI 103189
F01	SBM1089430	ENSMUST00000017881.2	Mmp9	ENSMUSG00000017737	matrix metalloproteinase 9 Source MGI Symbol Acc MGI 97011
F02	SBM0852441	ENSMUST00000063116.9	Msx1	ENSMUSG00000048450	msh homeobox 1 Source MGI Symbol Acc MGI 97168
F03	SBM1063614	ENSMUST00000139206.1	Muc1	ENSMUSG00000042784	mucin 1, transmembrane Source MGI Symbol Acc MGI 97231
F04	SBM0871852	ENSMUST00000113920.7	Olfm1	ENSMUSG00000026833	olfactomedin 1 Source MGI Symbol Acc MGI 1860437
F05	SBM0823260	ENSMUST00000140338.1	Pcna	ENSMUSG00000027342	proliferating cell nuclear antigen Source MGI Symbol Acc MGI 97503
F06	SBM0900847	ENSMUST00000220985.1	Pgf	ENSMUSG00000004791	placental growth factor Source MGI Symbol Acc MGI 105095
F07	SBM0738539	ENSMUST00000189181.6	Pgr	ENSMUSG00000031870	progesterone receptor Source MGI Symbol Acc MGI 97567
F08	SBM0899700	ENSMUST00000110369.9	Prl	ENSMUSG00000021342	prolactin Source MGI Symbol Acc MGI 97762
F09	SBM0775877	ENSMUST00000149930.2	Ptgs1	ENSMUSG00000047250	prostaglandin-endoperoxide synthase 1 Source MGI Symbol Acc MGI 97797
F10	SBM0782881	ENSMUST00000035065.8	Ptgs2	ENSMUSG00000032487	prostaglandin-endoperoxide synthase 2 Source MGI Symbol Acc MGI 97798

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM0975834	ENSMUST00000097491.9	Sell	ENSMUSG0000026581	selectin, lymphocyte Source MGI Symbol Acc MGI 98279
F12	SBM1011565	ENSMUST00000221810.1	Sfrp4	ENSMUSG0000021319	secreted frizzled-related protein 4 Source MGI Symbol Acc MGI 892010
G01	SBM0946306	ENSMUST0000023707.10	Sod1	ENSMUSG0000022982	superoxide dismutase 1, soluble Source MGI Symbol Acc MGI 98351
G02	SBM0826950	ENSMUST0000086833.12	Spp1	ENSMUSG0000029304	secreted phosphoprotein 1 Source MGI Symbol Acc MGI 98389
G03	SBM0821931	ENSMUST00000103114.7	Stat3	ENSMUSG0000004040	signal transducer and activator of transcription 3 Source MGI Symbol Acc MGI 103038
G04	SBM0820556	ENSMUST00000130253.1	Stmn1	ENSMUSG0000028832	stathmin 1 Source MGI Symbol Acc MGI 96739
G05	SBM0850388	ENSMUST00000002678.9	Tgfb1	ENSMUSG0000002603	transforming growth factor, beta 1 Source MGI Symbol Acc MGI 98725
G06	SBM0839007	ENSMUST00000115342.9	Timp1	ENSMUSG0000001131	tissue inhibitor of metalloproteinase 1 Source MGI Symbol Acc MGI 98752
G07	SBM0788439	ENSMUST0000025263.14	Tnf	ENSMUSG0000024401	tumor necrosis factor Source MGI Symbol Acc MGI 104798
G08	SBM0809431	ENSMUST00000224533.1	Tnfrsf10b	ENSMUSG0000022074	tumor necrosis factor receptor superfamily, member 10b Source MGI Symbol Acc MGI 1341090
G09	SBM0841427	ENSMUST00000108657.3	Trp53	ENSMUSG0000059552	transformation related protein 53 Source MGI Symbol Acc MGI 98834
G10	SBM1225402	ENSMUST0000029574.12	Vcam1	ENSMUSG0000027962	vascular cell adhesion molecule 1 Source MGI Symbol Acc MGI 98926
G11	SBM1079198	ENSMUST00000217017.1	Vegfa	ENSMUSG0000023951	vascular endothelial growth factor A Source MGI Symbol Acc MGI 103178
G12	SBM0774504	ENSMUST00000010941.5	Wnt2	ENSMUSG0000010797	wingless-type MMTV integration site family, member 2 Source MGI Symbol Acc MGI 98954
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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