

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

Mouse Male Infertility

Cat. no. 249950 SBMM-165ZR

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	Acbg2	Adcy10	Ahr	Akap14	Akap4	Amh	Apob	Ar	Boll	Brd2	Brdt	Carhsp1
B	Catsper1	Catsper4	Ccnb1	Cd46	Cdo1	Creb1	Crem	Crisp2	Crisp4	Cul3	Cyp19a1	Dazl
C	Ddx25	Ddx4	Dmr1	Dnajb8	Dnajc28	Eif2b4	Eif4g3	Fos	Fbxo5	Fos	Gli3	Adgrg2
D	Gpx1	Hdac1	Hmox1	Hsd17b7	Hsf2	Hspa4l	Il16	Klhl10	Lama5	Lep	Lhcgr	Lmna
E	Mcm8	Mllt3	Ndufs7	Nfkbia	Npc2	Odf1	Park7	Pcsk4	Pdzd8	Pgk2	Ptill1	Plcl1
F	Prdx3	Prm2	Serpina5	Slc25a5	Slc26a8	Smarca2	Sod1	Sod2	Spo11	Spz1	Srpkl	Stag3
G	Sycp3	Tbp	Tcp11	Tex11	Tnp1	Trim36	Trpd52l3	Tsga10	Ubap2	Uchl1	Wapl	Zp3
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	SBM0900367	ENSMUST00000043062.4	Acsbg2	ENSMUSG0000024207	acyl-CoA synthetase bubblegum family member 2 Source MGI Symbol Acc MGI 3587728
A02	SBM0883968	ENSMUST00000148550.7	Adcy10	ENSMUSG0000026567	adenylate cyclase 10 Source MGI Symbol Acc MGI 2660854
A03	SBM0733281	ENSMUST00000110811.2	Ahr	ENSMUSG0000019256	aryl-hydrocarbon receptor Source MGI Symbol Acc MGI 105043
A04	SBM0856397	ENSMUST00000046557.5	Akap14	ENSMUSG0000036551	A kinase (PRKA) anchor protein 14 Source MGI Symbol Acc MGI 3618288
A05	SBM0845046	ENSMUST00000115750.7	Akap4	ENSMUSG0000050089	A kinase (PRKA) anchor protein 4 Source MGI Symbol Acc MGI 102794
A06	SBM0728372	ENSMUST00000036016.5	Amh	ENSMUSG0000035262	anti-Mullerian hormone Source MGI Symbol Acc MGI 88006
A07	SBM1016873	ENSMUST00000037520.13	Apob	ENSMUSG0000020609	apolipoprotein B Source MGI Symbol Acc MGI 88052
A08	SBM0829583	ENSMUST00000052837.8	Ar	ENSMUSG0000046532	androgen receptor Source MGI Symbol Acc MGI 88064
A09	SBM0953135	ENSMUST00000173983.7	Boll	ENSMUSG0000025977	boule homolog, RNA binding protein Source MGI Symbol Acc MGI 1922638
A10	SBM1012466	ENSMUST00000025193.13	Brd2	ENSMUSG0000024335	bromodomain containing 2 Source MGI Symbol Acc MGI 99495
A11	SBM0986049	ENSMUST00000161377.1	Brdt	ENSMUSG0000029279	bromodomain, testis-specific Source MGI Symbol Acc MGI 1891374
A12	SBM1086394	ENSMUST00000008537.9	Carhsp1	ENSMUSG0000008393	calcium regulated heat stable protein 1 Source MGI Symbol Acc MGI 1196368
B01	SBM0696669	ENSMUST00000043380.4	Catsper1	ENSMUSG0000038498	cation channel, sperm associated 1 Source MGI Symbol Acc MGI 2179947
B02	SBM1030766	ENSMUST00000169381.7	Catsper4	ENSMUSG0000048003	cation channel, sperm associated 4 Source MGI Symbol Acc MGI 3043288
B03	SBM0677113	ENSMUST00000147790.1	Ccnb1	ENSMUSG0000041431	cyclin B1 Source MGI Symbol Acc MGI 88302
B04	SBM0870470	ENSMUST00000159563.7	Cd46	ENSMUSG0000016493	CD46 antigen, complement regulatory protein Source MGI Symbol Acc MGI 1203290
B05	SBM0858164	ENSMUST00000234819.1	Cdo1	ENSMUSG0000033022	cysteine dioxygenase 1, cytosolic Source MGI Symbol Acc MGI 105925
B06	SBM0735214	ENSMUST00000188855.6	Creb1	ENSMUSG0000025958	cAMP responsive element binding protein 1 Source MGI Symbol Acc MGI 88494
B07	SBM1037952	ENSMUST00000147138.7	Creml	ENSMUSG0000063889	cAMP responsive element modulator Source MGI Symbol Acc MGI 88495
B08	SBM0933255	ENSMUST00000233679.1	Crisp2	ENSMUSG0000023930	cysteine-rich secretory protein 2 Source MGI Symbol Acc MGI 98815
B09	SBM0975484	ENSMUST00000130669.1	Crisp4	ENSMUSG0000025774	cysteine-rich secretory protein 4 Source MGI Symbol Acc MGI 1925331
B10	SBM0969340	ENSMUST00000168372.1	Cul3	ENSMUSG0000004364	cullin 3 Source MGI Symbol Acc MGI 1347360
B11	SBM0796819	ENSMUST00000034811.7	Cyp19a1	ENSMUSG0000032274	cytochrome P450, family 19, subfamily a, polypeptide 1 Source MGI Symbol Acc MGI 88587
B12	SBM0721500	ENSMUST00000010736.8	Dazl	ENSMUSG0000010592	deleted in azoospermia-like Source MGI Symbol Acc MGI 1342328
C01	SBM1068057	ENSMUST00000034612.6	Ddx25	ENSMUSG0000032101	DEAD (Asp-Glu-Ala-Asp) box polypeptide 25 Source MGI Symbol Acc MGI 1353582
C02	SBM0761086	ENSMUST00000099166.9	Ddx4	ENSMUSG0000021758	DEAD (Asp-Glu-Ala-Asp) box polypeptide 4 Source MGI Symbol Acc MGI 102670
C03	SBM1026172	ENSMUST00000025755.10	Dmrt1	ENSMUSG0000024837	doublesex and mab-3 related transcription factor 1 Source MGI Symbol Acc MGI 1354733
C04	SBM1055293	ENSMUST00000203827.1	Dnajb8	ENSMUSG0000048206	DnaJ heat shock protein family (Hsp40) member B8 Source MGI Symbol Acc MGI 1922801
C05	SBM0911394	ENSMUST00000133731.1	Dnajc28	ENSMUSG0000039763	DnaJ heat shock protein family (Hsp40) member C28 Source MGI Symbol Acc MGI 2181053
C06	SBM1078454	ENSMUST00000166769.7	Eif2b4	ENSMUSG0000029145	eukaryotic translation initiation factor 2B, subunit 4 delta Source MGI Symbol Acc MGI 95300
C07	SBM0694489	ENSMUST00000139759.7	Eif4g3	ENSMUSG0000028760	eukaryotic translation initiation factor 4 gamma, 3 Source MGI Symbol Acc MGI 1923935
C08	SBM0856649	ENSMUST00000112472.3	Fas	ENSMUSG0000024778	Fas (TNF receptor superfamily member 6) Source MGI Symbol Acc MGI 95484
C09	SBM0930510	ENSMUST00000142200.1	Fbxo5	ENSMUSG0000019773	F-box protein 5 Source MGI Symbol Acc MGI 1914391
C10	SBM0977461	ENSMUST00000134311.1	Fos	ENSMUSG0000021250	FBJ osteosarcoma oncogene Source MGI Symbol Acc MGI 95574
		ENSMUST000000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM0853730	110510.3	Gli3	000021318	GLI-Kruppel family member GLI3 Source MGI Symbol Acc MGI 95729
C12	SBM0999883	ENSMUST00000112408.8	Adgrg2	ENSMUSG0000031298	adhesion G protein-coupled receptor G2 Source MGI Symbol Acc MGI 2446854
D01	SBM0858533	ENSMUST00000082429.6	Gpx1	ENSMUSG0000063856	glutathione peroxidase 1 Source MGI Symbol Acc MGI 104887
D02	SBM0727728	ENSMUST00000132909.1	Hdac1	ENSMUSG0000028800	histone deacetylase 1 Source MGI Symbol Acc MGI 108086
D03	SBM0936413	ENSMUST00000005548.7	Hmox1	ENSMUSG0000005413	heme oxygenase 1 Source MGI Symbol Acc MGI 96163
D04	SBM0827759	ENSMUST00000133563.7	Hsd17b7	ENSMUSG0000026675	hydroxysteroid (17-beta) dehydrogenase 7 Source MGI Symbol Acc MGI 1330808
D05	SBM0809729	ENSMUST00000079833.5	Hsf2	ENSMUSG0000019878	heat shock factor 2 Source MGI Symbol Acc MGI 96239
D06	SBM0694050	ENSMUST00000203496.2	Hspa4l	ENSMUSG0000025757	heat shock protein 4 like Source MGI Symbol Acc MGI 107422
D07	SBM0679719	ENSMUST00000001792.11	Il16	ENSMUSG0000001741	interleukin 16 Source MGI Symbol Acc MGI 1270855
D08	SBM0703750	ENSMUST00000107395.2	Klhl10	ENSMUSG0000001558	kelch-like 10 Source MGI Symbol Acc MGI 2181067
D09	SBM0892722	ENSMUST00000015791.5	Lama5	ENSMUSG0000015647	laminin, alpha 5 Source MGI Symbol Acc MGI 105382
D10	SBM0718370	ENSMUST00000169505.1	Lep	ENSMUSG0000059201	leptin Source MGI Symbol Acc MGI 104663
D11	SBM0993994	ENSMUST00000234368.1	Lhcgr	ENSMUSG0000024107	lutinizing hormone/choriogonadotropin receptor Source MGI Symbol Acc MGI 96783
D12	SBM0903585	ENSMUST00000120377.7	Lmna	ENSMUSG0000028063	lamin A Source MGI Symbol Acc MGI 96794
E01	SBM0701188	ENSMUST00000066559.5	Mcm8	ENSMUSG0000027353	minichromosome maintenance 8 homologous recombination repair factor Source MGI Symbol Acc MGI 1913884
E02	SBM0802265	ENSMUST00000148059.1	Mllt3	ENSMUSG0000028496	myeloid/lymphoid or mixed-lineage leukemia translocated to, 3 Source MGI Symbol Acc MGI 1917372
E03	SBM0759294	ENSMUST00000020361.6	Ndufs7	ENSMUSG0000020153	NADH ubiquinone oxidoreductase core subunit S7 Source MGI Symbol Acc MGI 1922656
E04	SBM0696431	ENSMUST00000021413.8	Nfkbia	ENSMUSG0000021025	nuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor, alpha Source MGI Symbol Acc MGI 104741
E05	SBM0730049	ENSMUST00000021668.9	Npc2	ENSMUSG0000021242	NPC intracellular cholesterol transporter 2 Source MGI Symbol Acc MGI 1915213
E06	SBM0997876	ENSMUST00000081966.4	Odf1	ENSMUSG0000061923	outer dense fiber of sperm tails 1 Source MGI Symbol Acc MGI 97424
E07	SBM1060425	ENSMUST00000128075.7	Park7	ENSMUSG0000028964	Parkinson disease (autosomal recessive, early onset) 7 Source MGI Symbol Acc MGI 2135637
E08	SBM0904634	ENSMUST00000137177.7	Pcsk4	ENSMUSG0000020131	proprotein convertase subtilisin/kexin type 4 Source MGI Symbol Acc MGI 97514
E09	SBM0963171	ENSMUST00000099274.3	Pdzd8	ENSMUSG0000074746	PDZ domain containing 8 Source MGI Symbol Acc MGI 2677270
E10	SBM0842463	ENSMUST00000033585.6	Pgk2	ENSMUSG0000031233	phosphoglycerate kinase 2 Source MGI Symbol Acc MGI 97563
E11	SBM0921964	ENSMUST00000195959.1	Piwil1	ENSMUSG0000029423	piwi-like RNA-mediated gene silencing 1 Source MGI Symbol Acc MGI 1928897
E12	SBM0684410	ENSMUST00000032356.12	Plcz1	ENSMUSG0000030230	phospholipase C, zeta 1 Source MGI Symbol Acc MGI 2150308
F01	SBM0768883	ENSMUST00000025961.6	Prdx3	ENSMUSG0000024997	peroxiredoxin 3 Source MGI Symbol Acc MGI 88034
F02	SBM0737137	ENSMUST00000189593.1	Prm2	ENSMUSG0000038015	protamine 2 Source MGI Symbol Acc MGI 97766
F03	SBM1031101	ENSMUST00000021495.3	Serpina5	ENSMUSG0000041550	serine (or cysteine) peptidase inhibitor, clade A, member 5 Source MGI Symbol Acc MGI 107817
F04	SBM0951976	ENSMUST00000126608.1	Slc25a5	ENSMUSG0000016319	solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 5 Source MGI Symbol Acc MGI 1353496
F05	SBM0941717	ENSMUST00000233398.1	Slc26a8	ENSMUSG0000036196	solute carrier family 26, member 8 Source MGI Symbol Acc MGI 2385046
F06	SBM0913920	ENSMUST00000099537.8	Smarca2	ENSMUSG0000024921	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 Source MGI Symbol Acc MGI 99603
F07	SBM0946306	ENSMUST00000023707.10	Sod1	ENSMUSG0000022982	superoxide dismutase 1, soluble Source MGI Symbol Acc MGI 98351
F08	SBM1063571	ENSMUST00000233791.1	Sod2	ENSMUSG0000006818	superoxide dismutase 2, mitochondrial Source MGI Symbol Acc MGI 98352
F09	SBM0739239	ENSMUST00000050442.14	Spo11	ENSMUSG0000005883	SPO11 meiotic protein covalently bound to DSB Source MGI Symbol Acc MGI 1349669
F10	SBM0849173	ENSMUST00000050658.5	Spz1	ENSMUSG0000046957	spermatogenic leucine zipper 1 Source MGI Symbol Acc MGI 1930801

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM0682927	ENSMUST00000233440.1	Srpk1	ENSMUSG0000004865	serine/arginine-rich protein specific kinase 1 Source MGI Symbol Acc MGI 106908
F12	SBM0982300	ENSMUST00000161691.1	Stag3	ENSMUSG0000036928	stromal antigen 3 Source MGI Symbol Acc MGI 1355311
G01	SBM0839202	ENSMUST00000125612.1	Sycp3	ENSMUSG0000020059	synaptonemal complex protein 3 Source MGI Symbol Acc MGI 109542
G02	SBM0999748	ENSMUST00000232661.1	Tbp	ENSMUSG0000014767	TATA box binding protein Source MGI Symbol Acc MGI 101838
G03	SBM0857093	ENSMUST00000129046.8	Tcp11	ENSMUSG0000062859	t-complex protein 11 Source MGI Symbol Acc MGI 98544
G04	SBM1047969	ENSMUST00000113718.7	Tex11	ENSMUSG0000009670	testis expressed gene 11 Source MGI Symbol Acc MGI 1933237
G05	SBM0949090	ENSMUST00000027374.6	Tnp1	ENSMUSG0000026182	transition protein 1 Source MGI Symbol Acc MGI 98784
G06	SBM0921887	ENSMUST00000037011.5	Trim36	ENSMUSG0000033949	tripartite motif-containing 36 Source MGI Symbol Acc MGI 106264
G07	SBM1029556	ENSMUST00000025727.5	Trpd52l3	ENSMUSG0000024815	tumor protein D52-like 3 Source MGI Symbol Acc MGI 1913995
G08	SBM0838281	ENSMUST00000123082.7	Tsga10	ENSMUSG0000060771	testis specific 10 Source MGI Symbol Acc MGI 2685063
G09	SBM0896353	ENSMUST00000134782.1	Ubap2	ENSMUSG0000028433	ubiquitin-associated protein 2 Source MGI Symbol Acc MGI 1916176
G10	SBM0909454	ENSMUST00000202339.1	Uchl1	ENSMUSG0000029223	ubiquitin carboxy-terminal hydrolase L1 Source MGI Symbol Acc MGI 103149
G11	SBM0813854	ENSMUST00000048263.13	Wapl	ENSMUSG0000041408	WAPL cohesin release factor Source MGI Symbol Acc MGI 2675859
G12	SBM0861052	ENSMUST00000005073.12	Zp3	ENSMUSG0000004948	zona pellucida glycoprotein 3 Source MGI Symbol Acc MGI 99215
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 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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