

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

Mouse Osteoporosis

Cat. no. 249950 SBMM-170ZR

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	Acp5	Adcy10	Alox12	Alox15	Alox5	Alpl	Ar	Bglap	Bmp2	Bmp7	Calca	Calcr
B	Car2	Casr	Cd40	Clcn7	Cnr2	Col1a1	Col1a2	Comt	Crtap	Ctsk	Cyp17a1	Cyp19a1
C	Dbp	Dkk1	Enpp1	Esr1	Esr2	Esrra	Fgfr1	Fgfr2	Ghh	Hsd11b1	Igf1	Igfbp2
D	Il15	Il6	Il6ra	Itga1	Itgb3	Lep	P3h1	Lrp1	Lrp5	Lrp6	Lta	Ltbp2
E	Mab21l2	Mmp2	Mstn	Mthfr	Nfatc1	Nog	Nos3	Npy	Nr3c1	P2rx7	Plod2	Pri
F	Phf	Phf1r	Phlh	Runx2	Sfrp1	Sfrp4	Shbg	Sost	Sparc	Spp1	Stat1	Tgfb1
G	Timp2	Tnfrsf3	Tnfrsf11a	Tnfrsf11b	Tnfrsf1b	Tnfrsf11	Tshr	Twist1	Vdr	Vegfa	Wnt10b	Wnt3a
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	SBM1052565	ENSMUST00000217643.1	Acp5	ENSMUSG0000001348	acid phosphatase 5, tartrate resistant Source MGI Symbol Acc MGI 87883
A02	SBM0883968	ENSMUST00000148550.7	Adcy10	ENSMUSG00000026567	adenylate cyclase 10 Source MGI Symbol Acc MGI 2660854
A03	SBM1027043	ENSMUST00000108574.2	Alox12	ENSMUSG0000000320	arachidonate 12-lipoxygenase Source MGI Symbol Acc MGI 87998
A04	SBM0748276	ENSMUST00000019068.6	Alox15	ENSMUSG0000018924	arachidonate 15-lipoxygenase Source MGI Symbol Acc MGI 87997
A05	SBM0830704	ENSMUST00000026795.12	Alox5	ENSMUSG00000025701	arachidonate 5-lipoxygenase Source MGI Symbol Acc MGI 87999
A06	SBM0939481	ENSMUST00000133473.1	Alpl	ENSMUSG0000028766	alkaline phosphatase, liver/bone/kidney Source MGI Symbol Acc MGI 87983
A07	SBM0829583	ENSMUST00000052837.8	Ar	ENSMUSG00000046532	androgen receptor Source MGI Symbol Acc MGI 88064
A08	SBM0768580	ENSMUST00000076048.4	Bglap	ENSMUSG00000074483	bone gamma carboxyglutamate protein Source MGI Symbol Acc MGI 88156
A09	SBM0831820	ENSMUST00000028836.6	Bmp2	ENSMUSG00000027358	bone morphogenetic protein 2 Source MGI Symbol Acc MGI 88177
A10	SBM1004016	ENSMUST000000137247.1	Bmp7	ENSMUSG00000008999	bone morphogenetic protein 7 Source MGI Symbol Acc MGI 103302
A11	SBM0833704	ENSMUST000000206156.1	Calca	ENSMUSG00000030669	calcitonin/calcitonin-related polypeptide, alpha Source MGI Symbol Acc MGI 2151253
A12	SBM0787713	ENSMUST000000170266.2	Calcr	ENSMUSG00000023964	calcitonin receptor Source MGI Symbol Acc MGI 101950
B01	SBM0940413	ENSMUST00000029078.8	Car2	ENSMUSG00000027562	carbonic anhydrase 2 Source MGI Symbol Acc MGI 88269
B02	SBM0895047	ENSMUST00000063597.13	Casr	ENSMUSG00000051980	calcium-sensing receptor Source MGI Symbol Acc MGI 1351351
B03	SBM0757957	ENSMUST00000073707.8	Cd40	ENSMUSG0000017652	CD40 antigen Source MGI Symbol Acc MGI 88336
B04	SBM0858344	ENSMUST000000159773.1	Clcn7	ENSMUSG00000036636	chloride channel, voltage-sensitive 7 Source MGI Symbol Acc MGI 1347048
B05	SBM0687602	ENSMUST00000097843.8	Cnr2	ENSMUSG00000062585	cannabinoid receptor 2 (macrophage) Source MGI Symbol Acc MGI 104650
B06	SBM0911341	ENSMUST000000139974.1	Col1a1	ENSMUSG0000001506	collagen, type I, alpha 1 Source MGI Symbol Acc MGI 88467
B07	SBM0673080	ENSMUST000000132029.1	Col1a2	ENSMUSG00000029661	collagen, type I, alpha 2 Source MGI Symbol Acc MGI 88468
B08	SBM0791437	ENSMUST00000000335.11	Comt	ENSMUSG0000000326	catechol-O-methyltransferase Source MGI Symbol Acc MGI 88470
B09	SBM0846403	ENSMUST000000084881.4	Crtap	ENSMUSG00000032431	cartilage associated protein Source MGI Symbol Acc MGI 1891221
B10	SBM0898879	ENSMUST000000015664.4	Ctsk	ENSMUSG00000028111	cathepsin K Source MGI Symbol Acc MGI 107823
B11	SBM0719547	ENSMUST000000236174.1	Cyp17a1	ENSMUSG00000003555	cytochrome P450, family 17, subfamily a, polypeptide 1 Source MGI Symbol Acc MGI 88586
B12	SBM0796819	ENSMUST000000034811.7	Cyp19a1	ENSMUSG00000032274	cytochrome P450, family 19, subfamily a, polypeptide 1 Source MGI Symbol Acc MGI 88587
C01	SBM1011802	ENSMUST000000080885.11	Dbp	ENSMUSG00000059824	D site albumin promoter binding protein Source MGI Symbol Acc MGI 94866
C02	SBM0673405	ENSMUST000000025803.8	Dkk1	ENSMUSG00000024868	dickkopf WNT signaling pathway inhibitor 1 Source MGI Symbol Acc MGI 1329040
C03	SBM0760643	ENSMUST000000150570.7	Enpp1	ENSMUSG00000037370	ectonucleotide pyrophosphatase/phosphodiesterase 1 Source MGI Symbol Acc MGI 97370
C04	SBM0745819	ENSMUST000000067086.13	Esr1	ENSMUSG0000019768	estrogen receptor 1 (alpha) Source MGI Symbol Acc MGI 1352467
C05	SBM0969315	ENSMUST000000101291.10	Esr2	ENSMUSG00000021055	estrogen receptor 2 (beta) Source MGI Symbol Acc MGI 109392
C06	SBM0823278	ENSMUST000000173308.1	Esrra	ENSMUSG00000024955	estrogen related receptor, alpha Source MGI Symbol Acc MGI 1346831
C07	SBM1002495	ENSMUST000000178276.7	Fgfr1	ENSMUSG00000031565	fibroblast growth factor receptor 1 Source MGI Symbol Acc MGI 95522
C08	SBM0813645	ENSMUST000000124096.7	Fgfr2	ENSMUSG00000030849	fibroblast growth factor receptor 2 Source MGI Symbol Acc MGI 95523
C09	SBM1032203	ENSMUST000000126630.1	Ghrh	ENSMUSG00000027643	growth hormone releasing hormone Source MGI Symbol Acc MGI 95709
C10	SBM0715575	ENSMUST000000162842.2	Hsd11b1	ENSMUSG00000016194	hydroxysteroid 11-beta dehydrogenase 1 Source MGI Symbol Acc MGI 103562
		ENSMUST000000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM1026650	122386.7	Igf1	000020053	insulin-like growth factor 1 Source MGI Symbol Acc MGI 96432
C12	SBM0981741	ENSMUST00000120564.1	Igfbp2	ENSMUSG0000039323	insulin-like growth factor binding protein 2 Source MGI Symbol Acc MGI 96437
D01	SBM0737685	ENSMUST00000034148.6	Il15	ENSMUSG00000031712	interleukin 15 Source MGI Symbol Acc MGI 103014
D02	SBM0742623	ENSMUST00000026845.11	Il6	ENSMUSG00000025746	interleukin 6 Source MGI Symbol Acc MGI 96559
D03	SBM0834938	ENSMUST00000197679.4	Il6ra	ENSMUSG00000027947	interleukin 6 receptor, alpha Source MGI Symbol Acc MGI 105304
D04	SBM0802692	ENSMUST00000061673.8	Itga1	ENSMUSG00000042284	integrin alpha 1 Source MGI Symbol Acc MGI 96599
D05	SBM0851696	ENSMUST00000127140.2	Itgb3	ENSMUSG0000020689	integrin beta 3 Source MGI Symbol Acc MGI 96612
D06	SBM0718370	ENSMUST00000169505.1	Lep	ENSMUSG00000059201	leptin Source MGI Symbol Acc MGI 104663
D07	SBM0889526	ENSMUST00000030393.12	P3h1	ENSMUSG00000028641	prolyl 3-hydroxylase 1 Source MGI Symbol Acc MGI 1888921
D08	SBM1037164	ENSMUST00000125480.1	Lrp1	ENSMUSG00000040249	low density lipoprotein receptor-related protein 1 Source MGI Symbol Acc MGI 96828
D09	SBM0676519	ENSMUST00000177294.1	Lrp5	ENSMUSG00000024913	low density lipoprotein receptor-related protein 5 Source MGI Symbol Acc MGI 1278315
D10	SBM0842955	ENSMUST00000203773.1	Lrp6	ENSMUSG00000030201	low density lipoprotein receptor-related protein 6 Source MGI Symbol Acc MGI 1298218
D11	SBM0790437	ENSMUST00000025266.5	Lta	ENSMUSG00000024402	lymphotoxin A Source MGI Symbol Acc MGI 104797
D12	SBM1087192	ENSMUST00000002073.12	Ltbp2	ENSMUSG00000002020	latent transforming growth factor beta binding protein 2 Source MGI Symbol Acc MGI 99502
E01	SBM0795294	ENSMUST00000191695.1	Mab21l2	ENSMUSG00000057777	mab-21-like 2 (C. elegans) Source MGI Symbol Acc MGI 1346022
E02	SBM0690200	ENSMUST00000034187.8	Mmp2	ENSMUSG00000031740	matrix metalloproteinase 2 Source MGI Symbol Acc MGI 97009
E03	SBM0884770	ENSMUST00000027269.6	Mstn	ENSMUSG00000026100	myostatin Source MGI Symbol Acc MGI 95691
E04	SBM0820259	ENSMUST00000097788.10	Mthfr	ENSMUSG00000029009	methylenetetrahydrofolate reductase Source MGI Symbol Acc MGI 106639
E05	SBM1038763	ENSMUST00000078049.11	Nfatc1	ENSMUSG00000033016	nuclear factor of activated T cells, cytoplasmic, calcineurin dependent 1 Source MGI Symbol Acc MGI 102469
E06	SBM1083967	ENSMUST00000061728.4	Nog	ENSMUSG00000048616	noggin Source MGI Symbol Acc MGI 104327
E07	SBM0681619	ENSMUST00000030834.6	Nos3	ENSMUSG00000028978	nitric oxide synthase 3, endothelial cell Source MGI Symbol Acc MGI 97362
E08	SBM0865432	ENSMUST00000031843.6	Npy	ENSMUSG00000029819	neuropeptide Y Source MGI Symbol Acc MGI 97374
E09	SBM0963014	ENSMUST00000115571.7	Nr3c1	ENSMUSG00000024431	nuclear receptor subfamily 3, group C, member 1 Source MGI Symbol Acc MGI 95824
E10	SBM0965301	ENSMUST00000199371.1	P2rx7	ENSMUSG00000029468	purinergic receptor P2X, ligand-gated ion channel, 7 Source MGI Symbol Acc MGI 1339957
E11	SBM0701093	ENSMUST00000160142.1	Plod2	ENSMUSG00000032374	procollagen lysine, 2-oxoglutarate 5-dioxygenase 2 Source MGI Symbol Acc MGI 1347007
E12	SBM0899700	ENSMUST00000110369.9	Prl	ENSMUSG00000021342	prolactin Source MGI Symbol Acc MGI 97762
F01	SBM0761850	ENSMUST00000079793.6	Pth	ENSMUSG00000059077	parathyroid hormone Source MGI Symbol Acc MGI 97799
F02	SBM0879300	ENSMUST00000196057.1	Pth1r	ENSMUSG00000032492	parathyroid hormone 1 receptor Source MGI Symbol Acc MGI 97801
F03	SBM0995190	ENSMUST00000204197.1	Pthlh	ENSMUSG00000048776	parathyroid hormone-like peptide Source MGI Symbol Acc MGI 97800
F04	SBM0865204	ENSMUST00000113571.9	Runx2	ENSMUSG00000039153	runt related transcription factor 2 Source MGI Symbol Acc MGI 99829
F05	SBM0742478	ENSMUST00000033952.7	Sfrp1	ENSMUSG00000031548	secreted frizzled-related protein 1 Source MGI Symbol Acc MGI 892014
F06	SBM1011565	ENSMUST00000221810.1	Sfrp4	ENSMUSG00000021319	secreted frizzled-related protein 4 Source MGI Symbol Acc MGI 892010
F07	SBM1043637	ENSMUST00000005334.2	Shbg	ENSMUSG00000005202	sex hormone binding globulin Source MGI Symbol Acc MGI 98295
F08	SBM0864952	ENSMUST00000001534.6	Sost	ENSMUSG00000001494	sclerostin Source MGI Symbol Acc MGI 1921749
F09	SBM0767527	ENSMUST00000108858.7	Sparc	ENSMUSG00000018593	secreted acidic cysteine rich glycoprotein Source MGI Symbol Acc MGI 98373
F10	SBM0826950	ENSMUST00000086833.12	Spp1	ENSMUSG00000029304	secreted phosphoprotein 1 Source MGI Symbol Acc MGI 98389

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM0954168	ENSMUST00000070968.13	Stat1	ENSMUSG0000026104	signal transducer and activator of transcription 1 Source MGI Symbol Acc MGI 103063
F12	SBM0850388	ENSMUST00000002678.9	Tgfb1	ENSMUSG0000002603	transforming growth factor, beta 1 Source MGI Symbol Acc MGI 98725
G01	SBM0732357	ENSMUST00000155707.2	Timp2	ENSMUSG0000017466	tissue inhibitor of metalloproteinase 2 Source MGI Symbol Acc MGI 98753
G02	SBM0936524	ENSMUST00000105527.1	Tnfaip3	ENSMUSG0000019850	tumor necrosis factor, alpha-induced protein 3 Source MGI Symbol Acc MGI 1196377
G03	SBM0954235	ENSMUST0000027559.2	Tnfrsf11a	ENSMUSG0000026321	tumor necrosis factor receptor superfamily, member 11a, NFKB activator Source MGI Symbol Acc MGI 1314891
G04	SBM0675830	ENSMUST00000079772.3	Tnfrsf11b	ENSMUSG0000063727	tumor necrosis factor receptor superfamily, member 11b (osteoprotegerin) Source MGI Symbol Acc MGI 109587
G05	SBM0979488	ENSMUST00000143055.1	Tnfrsf1b	ENSMUSG0000028599	tumor necrosis factor receptor superfamily, member 1b Source MGI Symbol Acc MGI 1314883
G06	SBM1225403	ENSMUST0000022592.7	Tnfsf11	ENSMUSG0000022015	tumor necrosis factor (ligand) superfamily, member 11 Source MGI Symbol Acc MGI 1100089
G07	SBM0929034	ENSMUST00000221216.1	Tshr	ENSMUSG0000020963	thyroid stimulating hormone receptor Source MGI Symbol Acc MGI 98849
G08	SBM0689554	ENSMUST0000049089.6	Twist1	ENSMUSG0000035799	twist basic helix-loop-helix transcription factor 1 Source MGI Symbol Acc MGI 98872
G09	SBM0761592	ENSMUST00000139656.1	Vdr	ENSMUSG0000022479	vitamin D (1,25-dihydroxyvitamin D3) receptor Source MGI Symbol Acc MGI 103076
G10	SBM1079198	ENSMUST00000217017.1	Vegfa	ENSMUSG0000023951	vascular endothelial growth factor A Source MGI Symbol Acc MGI 103178
G11	SBM0964186	ENSMUST00000228546.1	Wnt10b	ENSMUSG0000022996	wingless-type MMTV integration site family, member 10B Source MGI Symbol Acc MGI 108061
G12	SBM0757599	ENSMUST00000010044.7	Wnt3a	ENSMUSG0000009900	wingless-type MMTV integration site family, member 3A Source MGI Symbol Acc MGI 98956
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.

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit handbook or user manual. QIAGEN kit handbooks and user manuals are available at www.qiagen.com or can be requested from QIAGEN Technical Services or your local distributor.

Trademarks: QIAGEN®, LNA®, QuantiNova®, Sample to Insight® (QIAGEN Group); SYBR® (Life Technologies Corp.). Registered names, trademarks, etc. used in this document, even when not specifically marked as such, are not to be considered unprotected by law.

09/2019 © 2019 QIAGEN, all rights reserved.