

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

Mouse Angiogenic Growth Factors

Cat. no. 249950 SBMM-072ZR

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	Adams1	Aggf1	Amot	Angpt1	Angpt2	Angptl1	Angptl3	Angptl4	Adgrb1	Blg1	Cd55	Cd59b
B	Cga	Chga	Cited1	Col18a1	Col4a3	Crhr2	Csf3	Cxcl10	Cxcl2	Edil3	Egfl7	Erap1
C	ErbB2	Ereg	Fgf1	Fgf2	Vegfd	Fn1	Foxf1	Foxm1	Foxo4	Fst	Glimn	Gm
D	Hey1	Hey2	Hgf	Hpse	Ifnb1	Ifng	Il12a	Il12b	Kdr	Lep	Mak	Myocd
E	Ntrk2	Pdgfb	Pf4	Pgf	Plg	Pri	Pt7d1	Ptn	Ptpnj	Qk	Rasa1	Rhob
F	Rnase4	Rnh1	Runx1	Serpinc1	Serpine1	Serpint1	Shh	Smo	Stab1	Tdgf1	Tgfa	Tgfb1
G	Thbs1	Tie1	Timp1	Timp2	Timp3	Timp4	Tnf	Tnni2	Tnni3	Vegfa	Wars2	Wt1
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	SBM0709231	ENSMUST00000125897.1	Adams1	ENSMUSG0000022893	a disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin type 1 motif, 1 Source MGI Symbol Acc MGI 109249
A02	SBM0928655	ENSMUST00000161671.1	Aggf1	ENSMUSG00000021681	angiogenic factor with G patch and FHA domains 1 Source MGI Symbol Acc MGI 1913799
A03	SBM0927553	ENSMUST00000112836.8	Amot	ENSMUSG00000041688	angiomotin Source MGI Symbol Acc MGI 108440
A04	SBM0848818	ENSMUST0000022921.6	Angpt1	ENSMUSG0000022309	angiopoietin 1 Source MGI Symbol Acc MGI 108448
A05	SBM0989251	ENSMUST00000170200.1	Angpt2	ENSMUSG00000031465	angiopoietin 2 Source MGI Symbol Acc MGI 1202890
A06	SBM0816414	ENSMUST00000111720.1	Angptl1	ENSMUSG00000033544	angiopoietin-like 1 Source MGI Symbol Acc MGI 1919963
A07	SBM0898022	ENSMUST00000136091.7	Angptl3	ENSMUSG00000028553	angiopoietin-like 3 Source MGI Symbol Acc MGI 1353627
A08	SBM0692606	ENSMUST00000174872.1	Angptl4	ENSMUSG00000002289	angiopoietin-like 4 Source MGI Symbol Acc MGI 1888999
A09	SBM1083363	ENSMUST00000185682.6	Adgrb1	ENSMUSG00000034730	adhesion G protein-coupled receptor B1 Source MGI Symbol Acc MGI 1933736
A10	SBM1033050	ENSMUST00000218953.1	Btg1	ENSMUSG00000036478	B cell translocation gene 1, anti-proliferative Source MGI Symbol Acc MGI 88215
A11	SBM0875337	ENSMUST0000027650.12	Cd55	ENSMUSG00000026399	CD55 molecule, decay accelerating factor for complement Source MGI Symbol Acc MGI 104850
A12	SBM0779645	ENSMUST00000129749.7	Cd59b	ENSMUSG00000068686	CD59b antigen Source MGI Symbol Acc MGI 1888996
B01	SBM0915414	ENSMUST00000135871.7	Cga	ENSMUSG00000028298	glycoprotein hormones, alpha subunit Source MGI Symbol Acc MGI 88390
B02	SBM0884330	ENSMUST0000021610.6	Chga	ENSMUSG00000021194	chromogranin A Source MGI Symbol Acc MGI 88394
B03	SBM0988917	ENSMUST00000136277.1	Cited1	ENSMUSG00000051159	Cbp/p300-interacting transactivator with Glu/Asp-rich carboxy-terminal domain 1 Source MGI Symbol Acc MGI 108023
B04	SBM0820945	ENSMUST00000156009.1	Col18a1	ENSMUSG00000001435	collagen, type XVIII, alpha 1 Source MGI Symbol Acc MGI 88451
B05	SBM1225392	ENSMUST00000152664.1	Col4a3	ENSMUSG00000079465	collagen, type IV, alpha 3 Source MGI Symbol Acc MGI 104688
B06	SBM0841267	ENSMUST00000164012.2	Crhrl2	ENSMUSG00000003476	corticotropin releasing hormone receptor 2 Source MGI Symbol Acc MGI 894312
B07	SBM0837472	ENSMUST0000038886.2	Csf3	ENSMUSG00000038067	colony stimulating factor 3 (granulocyte) Source MGI Symbol Acc MGI 1339751
B08	SBM0996179	ENSMUST00000118006.2	Cxcl10	ENSMUSG00000034855	chemokine (C-X-C motif) ligand 10 Source MGI Symbol Acc MGI 1352450
B09	SBM0694289	ENSMUST00000275433.7	Cxcl2	ENSMUSG00000058427	chemokine (C-X-C motif) ligand 2 Source MGI Symbol Acc MGI 1340094
B10	SBM0815215	ENSMUST00000140625.1	Edil3	ENSMUSG00000034488	EGF-like repeats and discoidin I-like domains 3 Source MGI Symbol Acc MGI 1329025
B11	SBM0880188	ENSMUST00000139801.7	Egfl7	ENSMUSG00000026921	EGF-like domain 7 Source MGI Symbol Acc MGI 2449923
B12	SBM0887042	ENSMUST00000220594.1	Erap1	ENSMUSG00000021583	endoplasmic reticulum aminopeptidase 1 Source MGI Symbol Acc MGI 1933403
C01	SBM0761323	ENSMUST00000136032.1	ErbB2	ENSMUSG00000062312	erb-b2 receptor tyrosine kinase 2 Source MGI Symbol Acc MGI 95410
C02	SBM0874254	ENSMUST0000031324.5	Ereg	ENSMUSG00000029377	epiregulin Source MGI Symbol Acc MGI 107508
C03	SBM1074617	ENSMUST00000235922.1	Fgf1	ENSMUSG00000036585	fibroblast growth factor 1 Source MGI Symbol Acc MGI 95515
C04	SBM0959713	ENSMUST00000138563.8	Fgf2	ENSMUSG00000037225	fibroblast growth factor 2 Source MGI Symbol Acc MGI 95516
C05	SBM0809039	ENSMUST00000124851.1	Vegfd	ENSMUSG00000031380	vascular endothelial growth factor D Source MGI Symbol Acc MGI 108037
C06	SBM0934692	ENSMUST00000185408.6	Fn1	ENSMUSG00000026193	fibronectin 1 Source MGI Symbol Acc MGI 95566
C07	SBM0974015	ENSMUST00000181504.1	Foxf1	ENSMUSG00000042812	forkhead box F1 Source MGI Symbol Acc MGI 1347470
C08	SBM1061531	ENSMUST00000203040.2	Foxm1	ENSMUSG00000001517	forkhead box M1 Source MGI Symbol Acc MGI 1347487
C09	SBM0749374	ENSMUST00000150558.1	Foxo4	ENSMUSG00000042903	forkhead box O4 Source MGI Symbol Acc MGI 1891915
C10	SBM1028469	ENSMUST0000022287.7	Fst	ENSMUSG00000021765	follicle-stimulating hormone Source MGI Symbol Acc MGI 95586
		ENSMUST00000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM1078940	143113.1	Glmn	000029276	glomulin, FKBP associated protein Source MGI Symbol Acc MGI 2141180
C12	SBM0985789	ENSMUST00000127530.2	Grn	ENSMUSG0000034708	granulin Source MGI Symbol Acc MGI 95832
D01	SBM0693801	ENSMUST00000192102.1	Hey1	ENSMUSG0000040289	hairy/enhancer-of-split related with YRPW motif 1 Source MGI Symbol Acc MGI 1341800
D02	SBM0700946	ENSMUST00000019924.8	Hey2	ENSMUSG0000019789	hairy/enhancer-of-split related with YRPW motif 2 Source MGI Symbol Acc MGI 1341884
D03	SBM0858725	ENSMUST00000200189.4	Hgf	ENSMUSG0000028864	hepatocyte growth factor Source MGI Symbol Acc MGI 96079
D04	SBM0962947	ENSMUST00000112908.1	Hpse	ENSMUSG0000035273	heparanase Source MGI Symbol Acc MGI 1343124
D05	SBM0872658	ENSMUST00000055671.4	Ifnb1	ENSMUSG0000048806	interferon beta 1, fibroblast Source MGI Symbol Acc MGI 107657
D06	SBM0903694	ENSMUST00000068592.4	Ifng	ENSMUSG0000055170	interferon gamma Source MGI Symbol Acc MGI 107656
D07	SBM0806519	ENSMUST00000107816.3	Il12a	ENSMUSG0000027776	interleukin 12a Source MGI Symbol Acc MGI 96539
D08	SBM0957286	ENSMUST00000102796.9	Il12b	ENSMUSG0000004296	interleukin 12b Source MGI Symbol Acc MGI 96540
D09	SBM0947462	ENSMUST00000149573.1	Kdr	ENSMUSG0000062960	kinase insert domain protein receptor Source MGI Symbol Acc MGI 96683
D10	SBM0718370	ENSMUST00000169505.1	Lep	ENSMUSG0000059201	leptin Source MGI Symbol Acc MGI 104663
D11	SBM0843207	ENSMUST00000028672.12	Mdk	ENSMUSG0000027239	midkine Source MGI Symbol Acc MGI 96949
D12	SBM1060498	ENSMUST00000108695.8	Myocd	ENSMUSG0000020542	myocardin Source MGI Symbol Acc MGI 2137495
E01	SBM1050719	ENSMUST00000224402.1	Ntrk2	ENSMUSG0000055254	neurotrophic tyrosine kinase, receptor, type 2 Source MGI Symbol Acc MGI 97384
E02	SBM0947438	ENSMUST00000000500.7	Pdgfb	ENSMUSG0000000489	platelet derived growth factor, B polypeptide Source MGI Symbol Acc MGI 97528
E03	SBM0889385	ENSMUST00000031320.7	Pf4	ENSMUSG0000029373	platelet factor 4 Source MGI Symbol Acc MGI 1888711
E04	SBM0900847	ENSMUST00000220985.1	Pgf	ENSMUSG0000004791	placental growth factor Source MGI Symbol Acc MGI 105095
E05	SBM0836626	ENSMUST00000014578.6	Plg	ENSMUSG0000059481	plasminogen Source MGI Symbol Acc MGI 97620
E06	SBM0899700	ENSMUST00000110369.9	Prl	ENSMUSG0000021342	prolactin Source MGI Symbol Acc MGI 97762
E07	SBM1000913	ENSMUST00000224026.1	Prl7d1	ENSMUSG0000021348	prolactin family 7, subfamily d, member 1 Source MGI Symbol Acc MGI 97619
E08	SBM0912051	ENSMUST00000201321.1	Ptn	ENSMUSG0000029838	pleiotrophin Source MGI Symbol Acc MGI 97804
E09	SBM1010422	ENSMUST00000111493.7	Ptpri	ENSMUSG0000025314	protein tyrosine phosphatase, receptor type, J Source MGI Symbol Acc MGI 104574
E10	SBM0909355	ENSMUST00000233645.1	Qk	ENSMUSG0000062078	quaking Source MGI Symbol Acc MGI 97837
E11	SBM0974354	ENSMUST00000109552.2	Rasa1	ENSMUSG0000021549	RAS p21 protein activator 1 Source MGI Symbol Acc MGI 97860
E12	SBM0814150	ENSMUST00000067384.5	Rhob	ENSMUSG0000054364	ras homolog family member B Source MGI Symbol Acc MGI 107949
F01	SBM1077877	ENSMUST00000022428.12	Rnase4	ENSMUSG0000021876	ribonuclease, RNase A family 4 Source MGI Symbol Acc MGI 1926217
F02	SBM1091781	ENSMUST00000210979.1	Rnh1	ENSMUSG0000038650	ribonuclease/angiogenin inhibitor 1 Source MGI Symbol Acc MGI 1195456
F03	SBM0812229	ENSMUST00000168195.7	Runx1	ENSMUSG0000022952	runt related transcription factor 1 Source MGI Symbol Acc MGI 99852
F04	SBM0888120	ENSMUST00000064725.10	Serpinc1	ENSMUSG0000026715	serine (or cysteine) peptidase inhibitor, clade C (antithrombin), member 1 Source MGI Symbol Acc MGI 88095
F05	SBM0809699	ENSMUST00000041388.10	Serpine1	ENSMUSG0000037411	serine (or cysteine) peptidase inhibitor, clade E, member 1 Source MGI Symbol Acc MGI 97608
F06	SBM0759610	ENSMUST00000168902.7	Serpinf1	ENSMUSG0000000753	serine (or cysteine) peptidase inhibitor, clade F, member 1 Source MGI Symbol Acc MGI 108080
F07	SBM0959314	ENSMUST00000002708.4	Shh	ENSMUSG0000002633	sonic hedgehog Source MGI Symbol Acc MGI 98297
F08	SBM0921550	ENSMUST00000001812.4	Smo	ENSMUSG0000001761	smoothened, frizzled class receptor Source MGI Symbol Acc MGI 108075
F09	SBM0967880	ENSMUST00000159208.7	Stab1	ENSMUSG0000042286	stabilin 1 Source MGI Symbol Acc MGI 2178742
F10	SBM1058699	ENSMUST00000035075.12	Tdgf1	ENSMUSG0000032494	teratocarcinoma-derived growth factor 1 Source MGI Symbol Acc MGI 98658

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM0940166	ENSMUST00000192058.3	Tgfa	ENSMUSG0000029999	transforming growth factor alpha Source MGI Symbol Acc MGI 98724
F12	SBM0850388	ENSMUST00000002678.9	Tgfb1	ENSMUSG0000002603	transforming growth factor, beta 1 Source MGI Symbol Acc MGI 98725
G01	SBM0895247	ENSMUST00000142588.1	Thbs1	ENSMUSG0000040152	thrombospondin 1 Source MGI Symbol Acc MGI 98737
G02	SBM1028227	ENSMUST00000047421.5	Tie1	ENSMUSG0000033191	tyrosine kinase with immunoglobulin-like and EGF-like domains 1 Source MGI Symbol Acc MGI 99906
G03	SBM0839007	ENSMUST00000115342.9	Timp1	ENSMUSG0000001131	tissue inhibitor of metalloproteinase 1 Source MGI Symbol Acc MGI 98752
G04	SBM0732357	ENSMUST00000155707.2	Timp2	ENSMUSG0000017466	tissue inhibitor of metalloproteinase 2 Source MGI Symbol Acc MGI 98753
G05	SBM1025772	ENSMUST00000132307.1	Timp3	ENSMUSG0000020044	tissue inhibitor of metalloproteinase 3 Source MGI Symbol Acc MGI 98754
G06	SBM1077931	ENSMUST00000032462.8	Timp4	ENSMUSG0000030317	tissue inhibitor of metalloproteinase 4 Source MGI Symbol Acc MGI 109125
G07	SBM0788439	ENSMUST00000025263.14	Tnf	ENSMUSG0000024401	tumor necrosis factor Source MGI Symbol Acc MGI 104798
G08	SBM0797070	ENSMUST00000129618.1	Tnni2	ENSMUSG0000031097	troponin I, skeletal, fast 2 Source MGI Symbol Acc MGI 105070
G09	SBM0701965	ENSMUST00000098859.9	Tnni3	ENSMUSG0000035458	troponin I, cardiac 3 Source MGI Symbol Acc MGI 98783
G10	SBM1079198	ENSMUST00000217017.1	Vegfa	ENSMUSG0000023951	vascular endothelial growth factor A Source MGI Symbol Acc MGI 103178
G11	SBM1028081	ENSMUST00000135960.7	Wars2	ENSMUSG0000004233	tryptophanyl tRNA synthetase 2 (mitochondrial) Source MGI Symbol Acc MGI 1917810
G12	SBM0752964	ENSMUST00000213301.1	Wt1	ENSMUSG0000016458	Wilms tumor 1 homolog Source MGI Symbol Acc MGI 98968
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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