

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

Mouse Glycosylation

Cat. no. 249950 SBMM-046ZA

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	A4gnt	Aga	B3glt	B3gnt2	B3gnt3	B3gnt4	B3gnt8	B4galt1	B4galt2	B4galt3	B4galt5	C1galt1
B	C1galt1c1	Edem1	Edem2	Edem3	Fuca1	Fuca2	Fut11	Fut8	Galnt1	Galnt10	Galnt11	Galnt12
C	Galnt13	Galnt14	Galnt2	Galnt3	Galnt4	Galnt5	Galnt6	Galnt7	Galnt9	Galnt16	Galnt15	Galnt16
D	Ganab	Gcrt1	Gcrt3	Glb1	Gnplab	Gnplg	Hexa	Hexb	Man1a	Man1a2	Man1b1	Man1c1
E	Man2a1	Man2a2	Man2b1	Manba	Mgat1	Mgat2	Mgat3	Mgat4a	Mgat4b	Mgat4c	Mgat5	Mgat5b
F	Mogs	Nagpa	Neu1	Neu2	Neu3	Neu4	Ogt	Pofut1	Pofut2	Pomgnt1	Pomt1	Pomt2
G	Prksh	St3gal1	St3gal2	St6gal1	St6galnac1	St8sia2	St8sia3	St8sia4	St8sia6	Ugg1	Ugg2	Galnt17
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	SBM0717583	ENSMUST00000042553.7	A4gnt	ENSMUSG0000037953	alpha-1,4-N-acetylglucosaminyltransferase Source MGI Symbol Acc MGI 2143261
A02	SBM0762349	ENSMUST00000211424.1	Aga	ENSMUSG0000031521	aspartylglucosaminidase Source MGI Symbol Acc MGI 104873
A03	SBM0703718	ENSMUST00000202302.1	B3glct	ENSMUSG0000051950	beta-3-glucosyltransferase Source MGI Symbol Acc MGI 2685903
A04	SBM0996167	ENSMUST00000055549.3	B3gnt2	ENSMUSG0000051650	UDP-GlcNAc betaGal beta-1,3-N-acetylglucosaminyltransferase 2 Source MGI Symbol Acc MGI 1889505
A05	SBM0909035	ENSMUST00000034260.8	B3gnt3	ENSMUSG0000031803	UDP-GlcNAc betaGal beta-1,3-N-acetylglucosaminyltransferase 3 Source MGI Symbol Acc MGI 2152535
A06	SBM0751625	ENSMUST00000031384.5	B3gnt4	ENSMUSG0000029431	UDP-GlcNAc betaGal beta-1,3-N-acetylglucosaminyltransferase 4 Source MGI Symbol Acc MGI 2680208
A07	SBM0861431	ENSMUST00000076034.7	B3gnt8	ENSMUSG0000059479	UDP-GlcNAc betaGal beta-1,3-N-acetylglucosaminyltransferase 8 Source MGI Symbol Acc MGI 2385269
A08	SBM0786163	ENSMUST00000108096.2	B4galt1	ENSMUSG0000028413	UDP-Gal betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 1 Source MGI Symbol Acc MGI 95705
A09	SBM0840187	ENSMUST00000106421.8	B4galt2	ENSMUSG0000028541	UDP-Gal betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 2 Source MGI Symbol Acc MGI 1858493
A10	SBM0865486	ENSMUST00000064272.9	B4galt3	ENSMUSG0000052423	UDP-Gal betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 3 Source MGI Symbol Acc MGI 1928767
A11	SBM0799012	ENSMUST00000109221.8	B4galt5	ENSMUSG0000017929	UDP-Gal betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 5 Source MGI Symbol Acc MGI 1927169
A12	SBM0943067	ENSMUST00000040159.5	C1galt1	ENSMUSG0000042460	core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase, 1 Source MGI Symbol Acc MGI 2151071
B01	SBM0711202	ENSMUST00000058265.7	C1galt1c1	ENSMUSG0000048970	C1GALT1-specific chaperone 1 Source MGI Symbol Acc MGI 1913493
B02	SBM0885871	ENSMUST00000203469.1	Edem1	ENSMUSG0000030104	ER degradation enhancer, mannosidase alpha-like 1 Source MGI Symbol Acc MGI 2180139
B03	SBM0902099	ENSMUST00000040833.4	Edem2	ENSMUSG0000038312	ER degradation enhancer, mannosidase alpha-like 2 Source MGI Symbol Acc MGI 1915540
B04	SBM0883953	ENSMUST00000191070.1	Edem3	ENSMUSG0000043019	ER degradation enhancer, mannosidase alpha-like 3 Source MGI Symbol Acc MGI 1914217
B05	SBM0828274	ENSMUST00000142033.7	Fuca1	ENSMUSG0000028673	fucosidase, alpha-L- 1, tissue Source MGI Symbol Acc MGI 95593
B06	SBM0861734	ENSMUST00000166466.1	Fuca2	ENSMUSG0000019810	fucosidase, alpha-L- 2, plasma Source MGI Symbol Acc MGI 1914098
B07	SBM0902960	ENSMUST00000048016.2	Fut11	ENSMUSG0000039357	fucosyltransferase 11 Source MGI Symbol Acc MGI 1920318
B08	SBM0886382	ENSMUST00000219299.1	Fut8	ENSMUSG0000021065	fucosyltransferase 8 Source MGI Symbol Acc MGI 1858901
B09	SBM0874934	ENSMUST00000178605.1	Galnt1	ENSMUSG0000000420	polypeptide N-acetylglactosaminyltransferase 1 Source MGI Symbol Acc MGI 894693
B10	SBM0989436	ENSMUST00000108846.1	Galnt10	ENSMUSG0000020520	polypeptide N-acetylglactosaminyltransferase 10 Source MGI Symbol Acc MGI 1890480
B11	SBM0786460	ENSMUST00000045737.13	Galnt11	ENSMUSG0000038072	polypeptide N-acetylglactosaminyltransferase 11 Source MGI Symbol Acc MGI 2444392
B12	SBM0900890	ENSMUST00000045041.11	Galnt12	ENSMUSG0000039774	polypeptide N-acetylglactosaminyltransferase 12 Source MGI Symbol Acc MGI 2444664
C01	SBM1054212	ENSMUST00000136642.1	Galnt13	ENSMUSG0000060988	polypeptide N-acetylglactosaminyltransferase 13 Source MGI Symbol Acc MGI 2139447
C02	SBM0921973	ENSMUST00000232785.1	Galnt14	ENSMUSG0000024064	polypeptide N-acetylglactosaminyltransferase 14 Source MGI Symbol Acc MGI 1918935
C03	SBM0796874	ENSMUST00000142578.7	Galnt2	ENSMUSG0000089704	polypeptide N-acetylglactosaminyltransferase 2 Source MGI Symbol Acc MGI 894694
C04	SBM0904601	ENSMUST00000153563.1	Galnt3	ENSMUSG0000026994	polypeptide N-acetylglactosaminyltransferase 3 Source MGI Symbol Acc MGI 894695
C05	SBM1084633	ENSMUST00000161240.3	Galnt4	ENSMUSG0000090035	polypeptide N-acetylglactosaminyltransferase 4 Source MGI Symbol Acc MGI 894692
C06	SBM1093507	ENSMUST00000144671.7	Galnt5	ENSMUSG0000026828	polypeptide N-acetylglactosaminyltransferase 5 Source MGI Symbol Acc MGI 2179403
C07	SBM0942716	ENSMUST00000052069.11	Galnt6	ENSMUSG0000037280	polypeptide N-acetylglactosaminyltransferase 6 Source MGI Symbol Acc MGI 1891640
C08	SBM1004669	ENSMUST00000139417.1	Galnt7	ENSMUSG0000031608	polypeptide N-acetylglactosaminyltransferase 7 Source MGI Symbol Acc MGI 1349449
C09	SBM1030218	ENSMUST00000165856.2	Galnt9	ENSMUSG0000033316	polypeptide N-acetylglactosaminyltransferase 9 Source MGI Symbol Acc MGI 2677965
C10	SBM0965863	ENSMUST00000218943.1	Galnt16	ENSMUSG0000021130	polypeptide N-acetylglactosaminyltransferase 16 Source MGI Symbol Acc MGI 1917754
		ENSMUST000000		ENSMUSG00	UDP-N-acetyl-alpha-D-galactosamine polypeptide

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM0968605	030778.8	Galntf5	000028938	N-acetylgalactosaminyltransferase-like 5 Source MGI Symbol Acc MGI 1915159
C12	SBM0942438	ENSMUST00000146513.7	Galntf6	ENSMUSG0000096914	UDP-N-acetyl-alpha-D-galactosamine polypeptide N-acetylgalactosaminyltransferase-like 6 Source MGI Symbol Acc MGI 1913581
D01	SBM0815270	ENSMUST00000236563.1	Ganab	ENSMUSG0000071650	alpha glucosidase 2 alpha neutral subunit Source MGI Symbol Acc MGI 1097667
D02	SBM0797874	ENSMUST00000169897.1	Gcnt1	ENSMUSG0000038843	glucosaminyl (N-acetyl) transferase 1, core 2 Source MGI Symbol Acc MGI 95676
D03	SBM1084536	ENSMUST00000034751.5	Gcnt3	ENSMUSG0000032226	glucosaminyl (N-acetyl) transferase 3, mucin type Source MGI Symbol Acc MGI 1919327
D04	SBM0918985	ENSMUST00000217583.1	Glb1	ENSMUSG0000045594	galactosidase, beta 1 Source MGI Symbol Acc MGI 88151
D05	SBM0892734	ENSMUST00000127615.7	Gnptab	ENSMUSG0000035311	N-acetylglucosamine-1-phosphate transferase, alpha and beta subunits Source MGI Symbol Acc MGI 3643902
D06	SBM1038493	ENSMUST00000038973.6	Gnptg	ENSMUSG0000035521	N-acetylglucosamine-1-phosphotransferase, gamma subunit Source MGI Symbol Acc MGI 2147006
D07	SBM1027174	ENSMUST00000026262.7	Hexa	ENSMUSG0000025232	hexosaminidase A Source MGI Symbol Acc MGI 96073
D08	SBM0943766	ENSMUST00000222700.1	Hexb	ENSMUSG0000021665	hexosaminidase B Source MGI Symbol Acc MGI 96074
D09	SBM0721521	ENSMUST00000003843.15	Man1a	ENSMUSG0000003746	mannosidase 1, alpha Source MGI Symbol Acc MGI 104677
D10	SBM0683411	ENSMUST00000130066.12	Man1a2	ENSMUSG0000008763	mannosidase, alpha, class 1A, member 2 Source MGI Symbol Acc MGI 104676
D11	SBM0759811	ENSMUST00000149464.7	Man1b1	ENSMUSG0000036646	mannosidase, alpha, class 1B, member 1 Source MGI Symbol Acc MGI 2684954
D12	SBM1039501	ENSMUST00000054096.12	Man1c1	ENSMUSG0000037306	mannosidase, alpha, class 1C, member 1 Source MGI Symbol Acc MGI 2446214
E01	SBM0854163	ENSMUST00000169668.1	Man2a1	ENSMUSG0000024085	mannosidase 2, alpha 1 Source MGI Symbol Acc MGI 104669
E02	SBM0782383	ENSMUST00000206066.1	Man2a2	ENSMUSG0000038886	mannosidase 2, alpha 2 Source MGI Symbol Acc MGI 2150656
E03	SBM0868673	ENSMUST00000211223.1	Man2b1	ENSMUSG0000005142	mannosidase 2, alpha B1 Source MGI Symbol Acc MGI 107286
E04	SBM0817240	ENSMUST00000140496.7	Manba	ENSMUSG0000028164	mannosidase, beta A, lysosomal Source MGI Symbol Acc MGI 88175
E05	SBM0916109	ENSMUST00000167400.7	Mgat1	ENSMUSG0000020346	mannoside acetylglucosaminyltransferase 1 Source MGI Symbol Acc MGI 96973
E06	SBM1072619	ENSMUST00000060579.9	Mgat2	ENSMUSG0000043998	mannoside acetylglucosaminyltransferase 2 Source MGI Symbol Acc MGI 2384966
E07	SBM0824905	ENSMUST00000044970.6	Mgat3	ENSMUSG0000042428	mannoside acetylglucosaminyltransferase 3 Source MGI Symbol Acc MGI 104532
E08	SBM0814870	ENSMUST00000149791.7	Mgat4a	ENSMUSG0000026110	mannoside acetylglucosaminyltransferase 4, isoenzyme A Source MGI Symbol Acc MGI 2662992
E09	SBM0995212	ENSMUST00000151803.7	Mgat4b	ENSMUSG0000036620	mannoside acetylglucosaminyltransferase 4, isoenzyme B Source MGI Symbol Acc MGI 2143974
E10	SBM1027645	ENSMUST00000179929.7	Mgat4c	ENSMUSG0000019888	MGAT4 family, member C Source MGI Symbol Acc MGI 1914819
E11	SBM0720074	ENSMUST00000171405.1	Mgat5	ENSMUSG0000036155	mannoside acetylglucosaminyltransferase 5 Source MGI Symbol Acc MGI 894701
E12	SBM0872237	ENSMUST00000103027.9	Mgat5b	ENSMUSG0000043857	mannoside acetylglucosaminyltransferase 5, isoenzyme B Source MGI Symbol Acc MGI 3606200
F01	SBM0880932	ENSMUST00000145403.2	Mogs	ENSMUSG0000030036	mannosyl-oligosaccharide glucosidase Source MGI Symbol Acc MGI 1929872
F02	SBM0891171	ENSMUST00000147567.1	Nagpa	ENSMUSG0000023143	N-acetylglucosamine-1-phosphodiester alpha-N-acetylglucosaminidase Source MGI Symbol Acc MGI 1351598
F03	SBM0920468	ENSMUST00000174715.1	Neu1	ENSMUSG0000007038	neuraminidase 1 Source MGI Symbol Acc MGI 97305
F04	SBM0721033	ENSMUST00000166259.7	Neu2	ENSMUSG0000079434	neuraminidase 2 Source MGI Symbol Acc MGI 1344417
F05	SBM0786732	ENSMUST00000036331.6	Neu3	ENSMUSG0000035239	neuraminidase 3 Source MGI Symbol Acc MGI 1355305
F06	SBM0962954	ENSMUST00000190212.6	Neu4	ENSMUSG0000034000	sialidase 4 Source MGI Symbol Acc MGI 2661364
F07	SBM0750173	ENSMUST00000119299.7	Ogt	ENSMUSG0000034160	O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamine polypeptide-N-acetylglucosaminyl transferase) Source MGI Symbol Acc MGI 1339639
F08	SBM0871996	ENSMUST00000109794.1	Pofut1	ENSMUSG0000046020	protein O-fucosyltransferase 1 Source MGI Symbol Acc MGI 2153207
F09	SBM1045054	ENSMUST00000219376.1	Pofut2	ENSMUSG0000020260	protein O-fucosyltransferase 2 Source MGI Symbol Acc MGI 1916863
F10	SBM1055228	ENSMUST00000	Pomgnt1	ENSMUSG00	protein O-linked mannose beta 1,2-N-acetylglucosaminyltransferase Source

Position	Assay	Name	Symbol	Ensembl ID	Description
		136855.7		000028700	MGI Symbol Acc MGI 1915523
F11	SBM0905740	ENSMUST00000036473.15	Pomt1	ENSMUSG00000039254	protein-O-mannosyltransferase 1 Source MGI Symbol Acc MGI 2138994
F12	SBM0909964	ENSMUST00000222147.1	Pomt2	ENSMUSG00000034126	protein-O-mannosyltransferase 2 Source MGI Symbol Acc MGI 2444430
G01	SBM0699144	ENSMUST00000003493.8	Prkcsh	ENSMUSG00000003402	protein kinase C substrate 80K-H Source MGI Symbol Acc MGI 107877
G02	SBM0742321	ENSMUST00000092640.5	St3gal1	ENSMUSG00000013846	ST3 beta-galactoside alpha-2,3-sialyltransferase 1 Source MGI Symbol Acc MGI 98304
G03	SBM0703514	ENSMUST00000117534.7	St3gal2	ENSMUSG00000031749	ST3 beta-galactoside alpha-2,3-sialyltransferase 2 Source MGI Symbol Acc MGI 99427
G04	SBM0748678	ENSMUST00000128050.7	St6gal1	ENSMUSG00000022885	beta galactoside alpha 2,6 sialyltransferase 1 Source MGI Symbol Acc MGI 108470
G05	SBM1058609	ENSMUST00000009732.7	St6galnac1	ENSMUSG00000009588	ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 1 Source MGI Symbol Acc MGI 1341826
G06	SBM0748393	ENSMUST00000191970.1	St8sia2	ENSMUSG00000025789	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 2 Source MGI Symbol Acc MGI 106020
G07	SBM0768460	ENSMUST00000129518.1	St8sia3	ENSMUSG00000056812	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 3 Source MGI Symbol Acc MGI 106019
G08	SBM0758418	ENSMUST00000187936.1	St8sia4	ENSMUSG00000040710	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 4 Source MGI Symbol Acc MGI 106018
G09	SBM0790807	ENSMUST00000150781.1	St8sia6	ENSMUSG00000003418	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 6 Source MGI Symbol Acc MGI 2386797
G10	SBM1057502	ENSMUST00000174716.7	Uggf1	ENSMUSG00000037470	UDP-glucose glycoprotein glucosyltransferase 1 Source MGI Symbol Acc MGI 2443162
G11	SBM0878764	ENSMUST00000173391.1	Uggf2	ENSMUSG00000042104	UDP-glucose glycoprotein glucosyltransferase 2 Source MGI Symbol Acc MGI 1913685
G12	SBM0733118	ENSMUST00000160609.1	Galnt17	ENSMUSG00000034040	polypeptide N-acetylgalactosaminyltransferase 17 Source MGI Symbol Acc MGI 2137594
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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