

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

Mouse Glycosylation

Cat. no. 249955 UPMM-046ZA

For study focus gene expression analysis

Shipping and storage

QuantiNova LNA Probe PCR Focus Panels are shipped at room temperature. Immediately upon receipt, they should be stored protected from light 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 Probe PCR Focus Panels should be used together with the QuantiNova Reverse Transcription Kit for cDNA synthesis and the QuantiNova Probe PCR Kit (Mastermix) for PCR.

Panel layout (96-well): QuantiNova LNA Probe PCR Focus Panel

For the 384-well (4 × 96) PCR panels, genes are present in a staggered format. Refer to the QuantiNova LNA Probe PCR Handbook at www.qiagen.com for further details.

	1	2	3	4	5	6	7	8	9	10	11	12
A	A4gnt	Aga	B3glt1	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	Gcnt1	Gcnt3	Glb1	Gnptab	Gnptg	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	Uggf1	Uggf2	Galnt17
H	Actb	B2m	Gapdh	Gusb	Hsp90ab1	MGDC	QIC	QIC	QIC	PPC	PPC	PPC

Gene table: QuantiNova LNA Probe PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	UPFM094964 8	ENSMUST000000 042553.7	A4gnt	ENSMUSG00 000037953	alpha-1,4-N-acetylglucosaminyltransferase Source MGI Symbol Acc MGI 2143261
A02	UPFM073928 5	ENSMUST000000 033920.5	Aga	ENSMUSG00 000031521	aspartylglucosaminidase Source MGI Symbol Acc MGI 104873
A03	UPFM079589 3	ENSMUST000000 202302.1	B3glct	ENSMUSG00 000051950	beta-3-glucosyltransferase Source MGI Symbol Acc MGI 2685903
A04	UPFM099809 0	ENSMUST000000 055549.3	B3gnt2	ENSMUSG00 000051650	UDP-GlcNAc betaGal beta-1,3-N-acetylglucosaminyltransferase 2 Source MGI Symbol Acc MGI 1889505
A05	UPFM112631 5	ENSMUST000000 034260.8	B3gnt3	ENSMUSG00 000031803	UDP-GlcNAc betaGal beta-1,3-N-acetylglucosaminyltransferase 3 Source MGI Symbol Acc MGI 2152535
A06	UPFM065042 7	ENSMUST000000 031384.5	B3gnt4	ENSMUSG00 000029431	UDP-GlcNAc betaGal beta-1,3-N-acetylglucosaminyltransferase 4 Source MGI Symbol Acc MGI 2680208
A07	UPFM066293 2	ENSMUST000000 076034.7	B3gnt8	ENSMUSG00 000059479	UDP-GlcNAc betaGal beta-1,3-N-acetylglucosaminyltransferase 8 Source MGI Symbol Acc MGI 2385269
A08	UPFM072494 4	ENSMUST000000 030121.12	B4galt1	ENSMUSG00 000028413	UDP-Gal betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 1 Source MGI Symbol Acc MGI 95705
A09	UPFM088950 6	ENSMUST000000 106421.8	B4galt2	ENSMUSG00 000028541	UDP-Gal betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 2 Source MGI Symbol Acc MGI 1858493
A10	UPFM080271 0	ENSMUST000000 151863.7	B4galt3	ENSMUSG00 000052423	UDP-Gal betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 3 Source MGI Symbol Acc MGI 1928767
A11	UPFM067163 4	ENSMUST000000 109221.8	B4galt5	ENSMUSG00 000017929	UDP-Gal betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 5 Source MGI Symbol Acc MGI 1927169
A12	UPFM080571 2	ENSMUST000000 040159.5	C1galt1	ENSMUSG00 000042460	core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase, 1 Source MGI Symbol Acc MGI 2151071
B01	UPFM088527 6	ENSMUST000000 058265.7	C1galt1c1	ENSMUSG00 000048970	C1GALT1-specific chaperone 1 Source MGI Symbol Acc MGI 1913493
B02	UPFM063760 4	ENSMUST000000 203469.1	Edem1	ENSMUSG00 000030104	ER degradation enhancer, mannosidase alpha-like 1 Source MGI Symbol Acc MGI 2180139
B03	UPFM061919 4	ENSMUST000000 040833.4	Edem2	ENSMUSG00 000038312	ER degradation enhancer, mannosidase alpha-like 2 Source MGI Symbol Acc MGI 1915540
B04	UPFM067328 5	ENSMUST000000 059498.11	Edem3	ENSMUSG00 000043019	ER degradation enhancer, mannosidase alpha-like 3 Source MGI Symbol Acc MGI 1914217
B05	UPFM075884 3	ENSMUST000000 153592.1	Fuca1	ENSMUSG00 000028673	fucosidase, alpha-L- 1, tissue Source MGI Symbol Acc MGI 95593
B06	UPFM082895 5	ENSMUST000000 120549.1	Fuca2	ENSMUSG00 000019810	fucosidase, alpha-L- 2, plasma Source MGI Symbol Acc MGI 1914098
B07	UPFM094914 4	ENSMUST000000 225804.1	Fut11	ENSMUSG00 000039357	fucosyltransferase 11 Source MGI Symbol Acc MGI 1920318
B08	UPFM074592 7	ENSMUST000000 062804.7	Fut8	ENSMUSG00 000021065	fucosyltransferase 8 Source MGI Symbol Acc MGI 1858901
B09	UPFM069670 9	ENSMUST000000 171583.1	Galnt1	ENSMUSG00 000000420	polypeptide N-acetylglactosaminyltransferase 1 Source MGI Symbol Acc MGI 894693
B10	UPFM064833 3	ENSMUST000000 108846.1	Galnt10	ENSMUSG00 000020520	polypeptide N-acetylglactosaminyltransferase 10 Source MGI Symbol Acc MGI 1890480
B11	UPFM087780 8	ENSMUST000000 114950.1	Galnt11	ENSMUSG00 000038072	polypeptide N-acetylglactosaminyltransferase 11 Source MGI Symbol Acc MGI 2444392
B12	UPFM084850 4	ENSMUST000000 107744.1	Galnt12	ENSMUSG00 000039774	polypeptide N-acetylglactosaminyltransferase 12 Source MGI Symbol Acc MGI 2444664
C01	UPFM079376 5	ENSMUST000000 112635.7	Galnt13	ENSMUSG00 000060988	polypeptide N-acetylglactosaminyltransferase 13 Source MGI Symbol Acc MGI 2139447
C02	UPFM081817 0	ENSMUST000000 112591.2	Galnt14	ENSMUSG00 000024064	polypeptide N-acetylglactosaminyltransferase 14 Source MGI Symbol Acc MGI 1918935
C03	UPFM098034 3	ENSMUST000000 142578.7	Galnt2	ENSMUSG00 000089704	polypeptide N-acetylglactosaminyltransferase 2 Source MGI Symbol Acc MGI 894694
C04	UPFM068504 1	ENSMUST000000 153563.1	Galnt3	ENSMUSG00 000026994	polypeptide N-acetylglactosaminyltransferase 3 Source MGI Symbol Acc MGI 894695
C05	UPFM087773 5	ENSMUST000000 161240.3	Galnt4	ENSMUSG00 000090035	polypeptide N-acetylglactosaminyltransferase 4 Source MGI Symbol Acc MGI 894692
C06	UPFM062509 2	ENSMUST000000 144671.7	Galnt5	ENSMUSG00 000026828	polypeptide N-acetylglactosaminyltransferase 5 Source MGI Symbol Acc MGI 2179403
C07	UPFM082207 1	ENSMUST000000 159715.7	Galnt6	ENSMUSG00 000037280	polypeptide N-acetylglactosaminyltransferase 6 Source MGI Symbol Acc MGI 1891640
C08	UPFM100758 3	ENSMUST000000 139417.1	Galnt7	ENSMUSG00 000031608	polypeptide N-acetylglactosaminyltransferase 7 Source MGI Symbol Acc MGI 1349449
C09	UPFM100707 3	ENSMUST000000 200404.4	Galnt9	ENSMUSG00 000033316	polypeptide N-acetylglactosaminyltransferase 9 Source MGI Symbol Acc MGI 2677965
C10	UPFM088598 1	ENSMUST000000 219993.1	Galnt16	ENSMUSG00 000021130	polypeptide N-acetylglactosaminyltransferase 16 Source MGI Symbol Acc MGI 1917754
	UPFM096340	ENSMUST000000		ENSMUSG00	UDP-N-acetyl-alpha-D-galactosamine polypeptide

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	5	114955.1	Galntf5	000028938	N-acetylgalactosaminyltransferase-like 5 Source MGI Symbol Acc MGI 1915159
C12	UPFM0702426	ENSMUST00000077447.10	Galntf6	ENSMUSG0000096914	UDP-N-acetyl-alpha-D-galactosamine polypeptide N-acetylgalactosaminyltransferase-like 6 Source MGI Symbol Acc MGI 1913581
D01	UPFM0661942	ENSMUST00000096246.4	Ganab	ENSMUSG0000071650	alpha glucosidase 2 alpha neutral subunit Source MGI Symbol Acc MGI 1097667
D02	UPFM0996007	ENSMUST00000235184.1	Gcnt1	ENSMUSG0000038843	glucosaminyl (N-acetyl) transferase 1, core 2 Source MGI Symbol Acc MGI 95676
D03	UPFM0881580	ENSMUST00000034751.5	Gcnt3	ENSMUSG0000032226	glucosaminyl (N-acetyl) transferase 3, mucin type Source MGI Symbol Acc MGI 1919327
D04	UPFM1010393	ENSMUST00000063042.10	Glb1	ENSMUSG0000045594	galactosidase, beta 1 Source MGI Symbol Acc MGI 88151
D05	UPFM0931764	ENSMUST00000132738.1	Gnptab	ENSMUSG0000035311	N-acetylglucosamine-1-phosphate transferase, alpha and beta subunits Source MGI Symbol Acc MGI 3643902
D06	UPFM0955045	ENSMUST00000115154.10	Gnptg	ENSMUSG0000035521	N-acetylglucosamine-1-phosphotransferase, gamma subunit Source MGI Symbol Acc MGI 2147006
D07	UPFM0830130	ENSMUST00000026262.7	Hexa	ENSMUSG0000025232	hexosaminidase A Source MGI Symbol Acc MGI 96073
D08	UPFM0671374	ENSMUST00000022169.9	Hexb	ENSMUSG0000021665	hexosaminidase B Source MGI Symbol Acc MGI 96074
D09	UPFM0963673	ENSMUST00000003843.15	Man1a	ENSMUSG0000003746	mannosidase 1, alpha Source MGI Symbol Acc MGI 104677
D10	UPFM0662106	ENSMUST00000130066.1	Man1a2	ENSMUSG0000008763	mannosidase, alpha, class 1A, member 2 Source MGI Symbol Acc MGI 104676
D11	UPFM0952178	ENSMUST00000131826.1	Man1b1	ENSMUSG0000036646	mannosidase, alpha, class 1B, member 1 Source MGI Symbol Acc MGI 2684954
D12	UPFM0917237	ENSMUST00000176606.1	Man1c1	ENSMUSG0000037306	mannosidase, alpha, class 1C, member 1 Source MGI Symbol Acc MGI 2446214
E01	UPFM0707521	ENSMUST00000086723.9	Man2a1	ENSMUSG0000024085	mannosidase 2, alpha 1 Source MGI Symbol Acc MGI 104669
E02	UPFM0645387	ENSMUST00000206066.1	Man2a2	ENSMUSG0000038886	mannosidase 2, alpha 2 Source MGI Symbol Acc MGI 2150656
E03	UPFM0845955	ENSMUST00000211379.1	Man2b1	ENSMUSG0000005142	mannosidase 2, alpha B1 Source MGI Symbol Acc MGI 107286
E04	UPFM0927271	ENSMUST00000131610.7	Manba	ENSMUSG0000028164	mannosidase, beta A, lysosomal Source MGI Symbol Acc MGI 88175
E05	UPFM0812878	ENSMUST00000156607.7	Mgat1	ENSMUSG0000020346	mannoside acetylglucosaminyltransferase 1 Source MGI Symbol Acc MGI 96973
E06	UPFM0924938	ENSMUST00000060579.9	Mgat2	ENSMUSG0000043998	mannoside acetylglucosaminyltransferase 2 Source MGI Symbol Acc MGI 2384966
E07	UPFM0946109	ENSMUST00000044970.6	Mgat3	ENSMUSG0000042428	mannoside acetylglucosaminyltransferase 3 Source MGI Symbol Acc MGI 104532
E08	UPFM0750314	ENSMUST00000148047.1	Mgat4a	ENSMUSG0000026110	mannoside acetylglucosaminyltransferase 4, isoenzyme A Source MGI Symbol Acc MGI 2662992
E09	UPFM0858440	ENSMUST00000151803.7	Mgat4b	ENSMUSG0000036620	mannoside acetylglucosaminyltransferase 4, isoenzyme B Source MGI Symbol Acc MGI 2143974
E10	UPFM1126188	ENSMUST00000020039.12	Mgat4c	ENSMUSG0000019888	MGAT4 family, member C Source MGI Symbol Acc MGI 1914819
E11	UPFM0912443	ENSMUST00000171405.1	Mgat5	ENSMUSG0000036155	mannoside acetylglucosaminyltransferase 5 Source MGI Symbol Acc MGI 894701
E12	UPFM0754495	ENSMUST00000139905.1	Mgat5b	ENSMUSG0000043857	mannoside acetylglucosaminyltransferase 5, isoenzyme B Source MGI Symbol Acc MGI 3606200
F01	UPFM0896620	ENSMUST00000145403.2	Mogs	ENSMUSG0000030036	mannosyl-oligosaccharide glucosidase Source MGI Symbol Acc MGI 1929872
F02	UPFM0800121	ENSMUST00000144490.1	Nagpa	ENSMUSG0000023143	N-acetylglucosamine-1-phosphodiester alpha-N-acetylglucosaminidase Source MGI Symbol Acc MGI 1351598
F03	UPFM0891368	ENSMUST00000007253.5	Neu1	ENSMUSG0000007038	neuraminidase 1 Source MGI Symbol Acc MGI 97305
F04	UPFM0677161	ENSMUST00000166055.7	Neu2	ENSMUSG0000079434	neuraminidase 2 Source MGI Symbol Acc MGI 1344417
F05	UPFM0914914	ENSMUST00000036331.6	Neu3	ENSMUSG0000035239	neuraminidase 3 Source MGI Symbol Acc MGI 1355305
F06	UPFM0901573	ENSMUST00000050890.7	Neu4	ENSMUSG0000034000	sialidase 4 Source MGI Symbol Acc MGI 2661364
F07	UPFM0949805	ENSMUST00000155713.7	Ogt	ENSMUSG0000034160	O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamine polypeptide-N-acetylglucosaminyl transferase) Source MGI Symbol Acc MGI 1339639
F08	UPFM0949150	ENSMUST00000109794.1	Pofut1	ENSMUSG0000046020	protein O-fucosyltransferase 1 Source MGI Symbol Acc MGI 2153207
F09	UPFM0880254	ENSMUST00000020493.8	Pofut2	ENSMUSG0000020260	protein O-fucosyltransferase 2 Source MGI Symbol Acc MGI 1916863
F10	UPFM078255	ENSMUST000000	Pomgnt1	ENSMUSG00	protein O-linked mannose beta 1,2-N-acetylglucosaminyltransferase Source

Position	Assay	Name	Symbol	Ensembl ID	Description
	2	155718.7		000028700	MGI Symbol Acc MGI 1915523
F11	UPFM083546 1	ENSMUST00000 036473.15	Pomt1	ENSMUSG00 000039254	protein-O-mannosyltransferase 1 Source MGI Symbol Acc MGI 2138994
F12	UPFM095792 6	ENSMUST00000 037788.5	Pomt2	ENSMUSG00 000034126	protein-O-mannosyltransferase 2 Source MGI Symbol Acc MGI 2444430
G01	UPFM092732 4	ENSMUST00000 216344.1	Prkcsh	ENSMUSG00 000003402	protein kinase C substrate 80K-H Source MGI Symbol Acc MGI 107877
G02	UPFM098564 0	ENSMUST00000 092640.5	St3gal1	ENSMUSG00 000013846	ST3 beta-galactoside alpha-2,3-sialyltransferase 1 Source MGI Symbol Acc MGI 98304
G03	UPFM069232 9	ENSMUST00000 117534.7	St3gal2	ENSMUSG00 000031749	ST3 beta-galactoside alpha-2,3-sialyltransferase 2 Source MGI Symbol Acc MGI 99427
G04	UPFM063412 6	ENSMUST00000 178797.7	St6gal1	ENSMUSG00 000022885	beta galactoside alpha 2,6 sialyltransferase 1 Source MGI Symbol Acc MGI 108470
G05	UPFM089340 1	ENSMUST00000 009732.7	St6galnac1	ENSMUSG00 000009588	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	UPFM097146 8	ENSMUST00000 191970.1	St8sia2	ENSMUSG00 000025789	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 2 Source MGI Symbol Acc MGI 106020
G07	UPFM086271 6	ENSMUST00000 139622.2	St8sia3	ENSMUSG00 000056812	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 3 Source MGI Symbol Acc MGI 106019
G08	UPFM065389 8	ENSMUST00000 043336.10	St8sia4	ENSMUSG00 000040710	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 4 Source MGI Symbol Acc MGI 106018
G09	UPFM088612 6	ENSMUST00000 150781.1	St8sia6	ENSMUSG00 000003418	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 6 Source MGI Symbol Acc MGI 2386797
G10	UPFM077392 2	ENSMUST00000 174142.1	Uggf1	ENSMUSG00 000037470	UDP-glucose glycoprotein glucosyltransferase 1 Source MGI Symbol Acc MGI 2443162
G11	UPFM084587 3	ENSMUST00000 148648.7	Uggf2	ENSMUSG00 000042104	UDP-glucose glycoprotein glucosyltransferase 2 Source MGI Symbol Acc MGI 1913685
G12	UPFM074757 2	ENSMUST00000 161228.1	Galnt17	ENSMUSG00 000034040	polypeptide N-acetylgalactosaminyltransferase 17 Source MGI Symbol Acc MGI 2137594
H01	UPFM113294 6	ENSMUST00000 163829.1	Actb	ENSMUSG00 000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	UPFM113294 7	ENSMUST00000 102476.4	B2m	ENSMUSG00 000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	UPFM113294 8	ENSMUST00000 117757.8	Gapdh	ENSMUSG00 000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	UPFM113294 9	ENSMUST00000 026613.13	Gusb	ENSMUSG00 000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	UPFM113295 0	ENSMUST00000 166469.7	Hsp90ab1	ENSMUSG00 000023944	heat shock protein 90 alpha (cytosolic), class B member 1 Source MGI Symbol Acc MGI 96247
H06	UPFM112660 9	UPL_MGDC	MGDC	UPL_MGDC	Mouse Genomic DNA Contamination
H07	UPFH1126606	UPL_QIC	QIC	UPL_QIC	QuantiNova Internal Control
H08	UPFH1126606	UPL_QIC	QIC	UPL_QIC	QuantiNova Internal Control
H09	UPFH1126606	UPL_QIC	QIC	UPL_QIC	QuantiNova Internal Control
H10	UPFH1126605	UPL_PPC	PPC	UPL_PPC	Positive PCR Control
H11	UPFH1126605	UPL_PPC	PPC	UPL_PPC	Positive PCR Control
H12	UPFH1126605	UPL_PPC	PPC	UPL_PPC	Positive PCR Control

Related products

Product	Contents	Cat. no.
QuantiNova LNA Probe PCR QC Panel	These panels are designed to assess the quality of RNA samples before characterization using QuantiNova LNA Probe PCR Focus Panels; available in 96-well, 384-well, and Rotor-Disc 100 formats	249945
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 Probe RT-PCR Kit (100)*	For 100 x 20 μ l reactions: 1 ml QuantiNova Probe RT-PCR Master Mix, 20 μ l QuantiNova Probe 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	208352
QuantiNova Probe PCR Kit (100)*	For 100 x 20 μ l reactions: 1 ml 2x QuantiNova Probe PCR Master Mix, 500 μ l QuantiNova Yellow Template Dilution Buffer, 250 μ l QN ROX Reference Dye, 1.9 ml Water	208252

*Larger kit sizes available.

The QuantiNova LNA Probe 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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