

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

Mouse Mesenchymal Stem Cells

Cat. no. 249955 UPMM-082ZA

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	Abcb1a	Alcam	Anpep	Anxa5	Bdnf	Bglap	Bmp2	Bmp4	Bmp6	Bmp7	Casp3	Cd44
B	Col1a1	Csf2	Csf3	Cttnb1	Egf	Eng	ErbB2	Fgf10	Fgf2	Fut1	Fut4	Fzd9
C	Gdf15	Gdf5	Gdf6	Gdf7	Gdf3a	Hat1	Hdac1	Hgf	Hnf1a	Icam1	Ifng	Igf1
D	Il10	Il1b	Il6	Ins2	Itga6	Itgav	Itgax	Itgb1	Jag1	Kat2b	Kdr	Kitl
E	Lif	Mcam	Mif	Mmp2	Nes	Ngfr	Notch1	Nt5e	Nudt6	Pdgfrb	Pigs	Pou5f1
F	Pparg	Prom1	Plk2	Ptprc	Rhoa	Runx2	Slc17a5	Smad4	Smurf1	Smurf2	Sox2	Sox9
G	Tbx5	Tert	Tgfb1	Tgfb3	Thy1	Tnf	Vcam1	Vegfa	Vim	Vwf	Wnt3a	Zfp42
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	UPFM078360 9	ENSMUST00000 047753.4	Abcb1a	ENSMUSG00 000040584	ATP-binding cassette, sub-family B (MDR/TAP), member 1A Source MGI Symbol Acc MGI 97570
A02	UPFM062114 8	ENSMUST00000 164888.1	Alcam	ENSMUSG00 000022636	activated leukocyte cell adhesion molecule Source MGI Symbol Acc MGI 1313266
A03	UPFM100980 4	ENSMUST00000 049004.7	Anpep	ENSMUSG00 000039062	alanyl (membrane) aminopeptidase Source MGI Symbol Acc MGI 5000466
A04	UPFM099844 2	ENSMUST00000 029266.13	Anxa5	ENSMUSG00 000027712	annexin A5 Source MGI Symbol Acc MGI 106008
A05	UPFM085815 5	ENSMUST00000 111049.8	Bdnf	ENSMUSG00 000048482	brain derived neurotrophic factor Source MGI Symbol Acc MGI 88145
A06	UPFM072460 4	ENSMUST00000 076048.4	Bglap	ENSMUSG00 000074483	bone gamma carboxyglutamate protein Source MGI Symbol Acc MGI 88156
A07	UPFM117294 5	ENSMUST00000 028836.6	Bmp2	ENSMUSG00 000027358	bone morphogenetic protein 2 Source MGI Symbol Acc MGI 88177
A08	UPFM097472 7	ENSMUST00000 100676.2	Bmp4	ENSMUSG00 000021835	bone morphogenetic protein 4 Source MGI Symbol Acc MGI 88180
A09	UPFM088089 8	ENSMUST00000 171970.2	Bmp6	ENSMUSG00 000039004	bone morphogenetic protein 6 Source MGI Symbol Acc MGI 88182
A10	UPFM093035 6	ENSMUST00000 009143.7	Bmp7	ENSMUSG00 000008999	bone morphogenetic protein 7 Source MGI Symbol Acc MGI 103302
A11	UPFM072895 1	ENSMUST00000 210534.1	Casp3	ENSMUSG00 000031628	caspase 3 Source MGI Symbol Acc MGI 107739
A12	UPFM095220 9	ENSMUST00000 111192.2	Cd44	ENSMUSG00 000005087	CD44 antigen Source MGI Symbol Acc MGI 88338
B01	UPFM117294 6	ENSMUST00000 001547.7	Col1a1	ENSMUSG00 000001506	collagen, type I, alpha 1 Source MGI Symbol Acc MGI 88467
B02	UPFM064031 3	ENSMUST00000 019060.5	Csf2	ENSMUSG00 000018916	colony stimulating factor 2 (granulocyte-macrophage) Source MGI Symbol Acc MGI 1339752
B03	UPFM089304 3	ENSMUST00000 038886.2	Csf3	ENSMUSG00 000038067	colony stimulating factor 3 (granulocyte) Source MGI Symbol Acc MGI 1339751
B04	UPFM098586 3	ENSMUST00000 154356.7	Ctlnb1	ENSMUSG00 000006932	catenin (cadherin associated protein), beta 1 Source MGI Symbol Acc MGI 88276
B05	UPFM092572 5	ENSMUST00000 199615.4	Egf	ENSMUSG00 000028017	epidermal growth factor Source MGI Symbol Acc MGI 95290
B06	UPFM062460 8	ENSMUST00000 009705.13	Eng	ENSMUSG00 000026814	endoglin Source MGI Symbol Acc MGI 95392
B07	UPFM099508 8	ENSMUST00000 136032.1	ErbB2	ENSMUSG00 000062312	erb-b2 receptor tyrosine kinase 2 Source MGI Symbol Acc MGI 95410
B08	UPFM068203 7	ENSMUST00000 128103.8	Fgf10	ENSMUSG00 000021732	fibroblast growth factor 10 Source MGI Symbol Acc MGI 1099809
B09	UPFM073062 9	ENSMUST00000 145228.1	Fgf2	ENSMUSG00 000037225	fibroblast growth factor 2 Source MGI Symbol Acc MGI 95516
B10	UPFM087600 8	ENSMUST00000 209379.1	Fut1	ENSMUSG00 000008461	fucosyltransferase 1 Source MGI Symbol Acc MGI 109375
B11	UPFM095836 1	ENSMUST00000 061498.6	Fut4	ENSMUSG00 000049307	fucosyltransferase 4 Source MGI Symbol Acc MGI 95594
B12	UPFM075151 2	ENSMUST00000 062572.2	Fzd9	ENSMUSG00 000049551	frizzled class receptor 9 Source MGI Symbol Acc MGI 1313278
C01	UPFM067584 1	ENSMUST00000 003808.7	Gdf15	ENSMUSG00 000038508	growth differentiation factor 15 Source MGI Symbol Acc MGI 1346047
C02	UPFM098496 0	ENSMUST00000 040162.2	Gdf5	ENSMUSG00 000038259	growth differentiation factor 5 Source MGI Symbol Acc MGI 95688
C03	UPFM064098 9	ENSMUST00000 057613.2	Gdf6	ENSMUSG00 000051279	growth differentiation factor 6 Source MGI Symbol Acc MGI 95689
C04	UPFM083968 2	ENSMUST00000 220073.1	Gdf7	ENSMUSG00 000037660	growth differentiation factor 7 Source MGI Symbol Acc MGI 95690
C05	UPFM063537 0	ENSMUST00000 233741.1	Gtf3a	ENSMUSG00 000016503	general transcription factor III A Source MGI Symbol Acc MGI 1913846
C06	UPFM090218 8	ENSMUST00000 145147.1	Hat1	ENSMUSG00 000027018	histone aminotransferase 1 Source MGI Symbol Acc MGI 96013
C07	UPFM093590 7	ENSMUST00000 125718.7	Hdac1	ENSMUSG00 000028800	histone deacetylase 1 Source MGI Symbol Acc MGI 108086
C08	UPFM081302 0	ENSMUST00000 199900.1	Hgf	ENSMUSG00 000028864	hepatocyte growth factor Source MGI Symbol Acc MGI 96079
C09	UPFM090592 7	ENSMUST00000 176911.7	Hnf1a	ENSMUSG00 000029556	HNF1 homeobox A Source MGI Symbol Acc MGI 98504
C10	UPFM084326 4	ENSMUST00000 215003.1	Icam1	ENSMUSG00 000037405	intercellular adhesion molecule 1 Source MGI Symbol Acc MGI 96392
	UPFM117295	ENSMUST00000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	0	068592.4	lfng	000055170	interferon gamma Source MGI Symbol Acc MGI 107656
C12	UPFM0929418	ENSMUST00000121161.7	lgf1	ENSMUSG0000020053	insulin-like growth factor 1 Source MGI Symbol Acc MGI 96432
D01	UPFM1172951	ENSMUST00000016673.5	Il10	ENSMUSG0000016529	interleukin 10 Source MGI Symbol Acc MGI 96537
D02	UPFM0671281	ENSMUST00000155994.1	Il1b	ENSMUSG0000027398	interleukin 1 beta Source MGI Symbol Acc MGI 96543
D03	UPFM0729099	ENSMUST00000195978.4	Il6	ENSMUSG0000025746	interleukin 6 Source MGI Symbol Acc MGI 96559
D04	UPFM1002675	ENSMUST00000210288.1	Ins2	ENSMUSG0000000215	insulin II Source MGI Symbol Acc MGI 96573
D05	UPFM0745105	ENSMUST00000133124.7	Itga6	ENSMUSG0000027111	integrin alpha 6 Source MGI Symbol Acc MGI 96605
D06	UPFM0855247	ENSMUST00000028499.10	Itgav	ENSMUSG0000027087	integrin alpha V Source MGI Symbol Acc MGI 96608
D07	UPFM0873351	ENSMUST00000033053.7	Itgax	ENSMUSG0000030789	integrin alpha X Source MGI Symbol Acc MGI 96609
D08	UPFM0934656	ENSMUST00000124826.1	Itgb1	ENSMUSG0000025809	integrin beta 1 (fibronectin receptor beta) Source MGI Symbol Acc MGI 96610
D09	UPFM0833625	ENSMUST00000028735.7	Jag1	ENSMUSG0000027276	jagged 1 Source MGI Symbol Acc MGI 1095416
D10	UPFM0812958	ENSMUST00000164390.1	Kat2b	ENSMUSG0000000708	K(llysine) acetyltransferase 2B Source MGI Symbol Acc MGI 1343094
D11	UPFM0781643	ENSMUST00000113516.1	Kdr	ENSMUSG0000062960	kinase insert domain protein receptor Source MGI Symbol Acc MGI 96683
D12	UPFM0946885	ENSMUST00000105283.8	Kitl	ENSMUSG0000019966	kit ligand Source MGI Symbol Acc MGI 96974
E01	UPFM0931225	ENSMUST00000066283.11	Lif	ENSMUSG0000034394	leukemia inhibitory factor Source MGI Symbol Acc MGI 96787
E02	UPFM0951924	ENSMUST00000147836.1	Mcam	ENSMUSG0000032135	melanoma cell adhesion molecule Source MGI Symbol Acc MGI 1933966
E03	UPFM0832973	ENSMUST00000139462.1	Miff	ENSMUSG0000035158	melanogenesis associated transcription factor Source MGI Symbol Acc MGI 104554
E04	UPFM0737374	ENSMUST00000211567.1	Mmp2	ENSMUSG0000031740	matrix metalloproteinase 2 Source MGI Symbol Acc MGI 97009
E05	UPFM0975572	ENSMUST00000159830.1	Nes	ENSMUSG0000004891	nestin Source MGI Symbol Acc MGI 101784
E06	UPFM0926802	ENSMUST00000000122.6	Ngfr	ENSMUSG0000000120	nerve growth factor receptor (TNFR superfamily, member 16) Source MGI Symbol Acc MGI 97323
E07	UPFM0795987	ENSMUST00000126872.7	Notch1	ENSMUSG0000026923	notch 1 Source MGI Symbol Acc MGI 97363
E08	UPFM0773568	ENSMUST00000034992.7	Nt5e	ENSMUSG0000032420	5 nucleotidase, ecto Source MGI Symbol Acc MGI 99782
E09	UPFM0876437	ENSMUST00000146324.7	Nudt6	ENSMUSG0000050174	nudix (nucleoside diphosphate linked moiety X)-type motif 6 Source MGI Symbol Acc MGI 2387618
E10	UPFM0830840	ENSMUST00000115274.1	Pdgfrb	ENSMUSG0000024620	platelet derived growth factor receptor, beta polypeptide Source MGI Symbol Acc MGI 97531
E11	UPFM0928860	ENSMUST00000048073.8	Pigs	ENSMUSG0000041958	phosphatidylinositol glycan anchor biosynthesis, class S Source MGI Symbol Acc MGI 2687325
E12	UPFM0938226	ENSMUST00000025271.16	Pou5f1	ENSMUSG0000024406	POU domain, class 5, transcription factor 1 Source MGI Symbol Acc MGI 101893
F01	UPFM0842966	ENSMUST00000203732.2	Pparg	ENSMUSG0000000440	peroxisome proliferator activated receptor gamma Source MGI Symbol Acc MGI 97747
F02	UPFM0731663	ENSMUST00000196853.1	Prom1	ENSMUSG0000029086	prominin 1 Source MGI Symbol Acc MGI 1100886
F03	UPFM0856039	ENSMUST00000226466.1	Ptk2	ENSMUSG0000022607	PTK2 protein tyrosine kinase 2 Source MGI Symbol Acc MGI 95481
F04	UPFM0807826	ENSMUST00000112036.4	Ptprc	ENSMUSG0000026395	protein tyrosine phosphatase, receptor type, C Source MGI Symbol Acc MGI 97810
F05	UPFM0809261	ENSMUST00000007959.13	Rhoa	ENSMUSG0000007815	ras homolog family member A Source MGI Symbol Acc MGI 1096342
F06	UPFM0674217	ENSMUST00000113571.9	Runx2	ENSMUSG0000039153	runt related transcription factor 2 Source MGI Symbol Acc MGI 99829
F07	UPFM0706755	ENSMUST00000052441.11	Slc17a5	ENSMUSG0000049624	solute carrier family 17 (anion/sugar transporter), member 5 Source MGI Symbol Acc MGI 1924105
F08	UPFM0986328	ENSMUST00000114939.1	Smad4	ENSMUSG0000024515	SMAD family member 4 Source MGI Symbol Acc MGI 894293
F09	UPFM0923052	ENSMUST00000198621.1	Smurf1	ENSMUSG0000038780	SMAD specific E3 ubiquitin protein ligase 1 Source MGI Symbol Acc MGI 1923038
F10	UPFM0908466	ENSMUST00000139297.7	Smurf2	ENSMUSG0000018363	SMAD specific E3 ubiquitin protein ligase 2 Source MGI Symbol Acc MGI 1913563

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM080676 7	ENSMUST00000 099151.5	Sox2	ENSMUSG00 000074637	SRY (sex determining region Y)-box 2 Source MGI Symbol Acc MGI 98364
F12	UPFM071167 5	ENSMUST00000 000579.2	Sox9	ENSMUSG00 000000567	SRY (sex determining region Y)-box 9 Source MGI Symbol Acc MGI 98371
G01	UPFM067925 2	ENSMUST00000 202723.3	Tbx5	ENSMUSG00	T-box 5 Source MGI Symbol Acc MGI 102541
G02	UPFM088336 8	ENSMUST00000 022104.8	Tert	ENSMUSG00 000021611	telomerase reverse transcriptase Source MGI Symbol Acc MGI 1202709
G03	UPFM066688 0	ENSMUST00000 171757.1	Tgfb1	ENSMUSG00 00002603	transforming growth factor, beta 1 Source MGI Symbol Acc MGI 98725
G04	UPFM086737 6	ENSMUST00000 003687.7	Tgfb3	ENSMUSG00 000021253	transforming growth factor, beta 3 Source MGI Symbol Acc MGI 98727
G05	UPFM101144 2	ENSMUST00000 215156.1	Thy1	ENSMUSG00 000032011	thymus cell antigen 1, theta Source MGI Symbol Acc MGI 98747
G06	UPFM063847 1	ENSMUST00000 025263.14	Tnf	ENSMUSG00 000024401	tumor necrosis factor Source MGI Symbol Acc MGI 104798
G07	UPFM083873 5	ENSMUST00000 029574.12	Vcam1	ENSMUSG00 000027962	vascular cell adhesion molecule 1 Source MGI Symbol Acc MGI 98926
G08	UPFM117296 6	ENSMUST00000 214739.1	Vegfa	ENSMUSG00 000023951	vascular endothelial growth factor A Source MGI Symbol Acc MGI 103178
G09	UPFM099766 2	ENSMUST00000 028062.7	Vim	ENSMUSG00 000026728	vimentin Source MGI Symbol Acc MGI 98932
G10	UPFM094390 4	ENSMUST00000 112253.5	Vwf	ENSMUSG00 000001930	Von Willebrand factor Source MGI Symbol Acc MGI 98941
G11	UPFM077659 1	ENSMUST00000 010044.7	Wnt3a	ENSMUSG00 000009900	wingless-type MMTV integration site family, member 3A Source MGI Symbol Acc MGI 98956
G12	UPFM065117 2	ENSMUST00000 211248.1	Zfp42	ENSMUSG00 000051176	zinc finger protein 42 Source MGI Symbol Acc MGI 99187
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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