

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

Mouse Cardiovascular Disease

Cat. no. 249955 UPMM-174ZA

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	Ace	Actc1	Adra1a	Adra1b	Adra1d	Adrb1	Adrb2	Adrb3	Aebp1	Agtr1a	Anxa4	Ar
B	Atp2a2	Atp5a1	C6	Ccl11	Ccl2	Ccnd1	Cdkn1b	Col11a1	Col1a1	Col3a1	Creb5	Crem
C	Cryab	Crym	Ccn2	Cxcl12	Dcn	Dmd	Dusp6	Enah	Epor	F2r	Fn1	Frzb
D	G0s2	Gja1	Hmgcl	Hmgcr	Hmgcn2	Klh3	Maoa	Map2k5	Mapk1	Mapk8	Mmp13	Msi2
E	Myh10	Myh6	Ndufb5	Nbl	Nfia	Nlx2-5	Nppa	Nppb	Npr1	Npr2	Npr3	Nr3c1
F	Nr3c2	Pde3a	Pde3b	Pde5a	Pde7a	Postn	Ptn	Rarres1	Rassf1	Ren1	Rtn4	S100a1
G	S100a8	Sfrp4	Slc12a1	Snca	Spock1	Slat1	Tcf4	Thbs2	Tnni3	Tnnf2	Ubb	Zyx
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	UPFM092937 6	ENSMUST00000 151657.1	Ace	ENSMUSG00 000020681	angiotensin I converting enzyme (peptidyl-dipeptidase A) 1 Source MGI Symbol Acc MGI 87874
A02	UPFM083063 1	ENSMUST00000 090269.6	Actc1	ENSMUSG00 000068614	actin, alpha, cardiac muscle 1 Source MGI Symbol Acc MGI 87905
A03	UPFM094894 6	ENSMUST00000 159068.1	Adra1a	ENSMUSG00 000045875	adrenergic receptor, alpha 1a Source MGI Symbol Acc MGI 104773
A04	UPFM069335 9	ENSMUST00000 139906.1	Adra1b	ENSMUSG00 000050541	adrenergic receptor, alpha 1b Source MGI Symbol Acc MGI 104774
A05	UPFM067017 8	ENSMUST00000 103184.3	Adra1d	ENSMUSG00 000027335	adrenergic receptor, alpha 1d Source MGI Symbol Acc MGI 106673
A06	UPFM072017 1	ENSMUST00000 038949.5	Adrb1	ENSMUSG00 000035283	adrenergic receptor, beta 1 Source MGI Symbol Acc MGI 87937
A07	UPFM086644 3	ENSMUST00000 053640.4	Adrb2	ENSMUSG00 000045730	adrenergic receptor, beta 2 Source MGI Symbol Acc MGI 87938
A08	UPFM069450 3	ENSMUST00000 211346.1	Adrb3	ENSMUSG00 000031489	adrenergic receptor, beta 3 Source MGI Symbol Acc MGI 87939
A09	UPFM100794 5	ENSMUST00000 109829.1	Aebp1	ENSMUSG00 000020473	AE binding protein 1 Source MGI Symbol Acc MGI 1197012
A10	UPFM072210 8	ENSMUST00000 222370.1	Agtr1a	ENSMUSG00 000049115	angiotensin II receptor, type 1a Source MGI Symbol Acc MGI 87964
A11	UPFM077661 3	ENSMUST00000 155456.7	Anxa4	ENSMUSG00 000029994	annexin A4 Source MGI Symbol Acc MGI 88030
A12	UPFM078422 2	ENSMUST00000 052837.8	Ar	ENSMUSG00 000046532	androgen receptor Source MGI Symbol Acc MGI 88064
B01	UPFM097343 1	ENSMUST00000 196490.1	Atp2a2	ENSMUSG00 000029467	ATPase, Ca++ transporting, cardiac muscle, slow twitch 2 Source MGI Symbol Acc MGI 88110
B02	UPFM089299 1	ENSMUST00000 026495.14	Atp5a1	ENSMUSG00 000025428	ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subunit 1 Source MGI Symbol Acc MGI 88115
B03	UPFM061986 2	ENSMUST00000 022788.14	C6	ENSMUSG00 000022181	complement component 6 Source MGI Symbol Acc MGI 88233
B04	UPFM093466 9	ENSMUST00000 000342.2	Ccl11	ENSMUSG00 000020676	chemokine (C-C motif) ligand 11 Source MGI Symbol Acc MGI 103576
B05	UPFM094573 3	ENSMUST00000 124479.1	Ccl2	ENSMUSG00 000035385	chemokine (C-C motif) ligand 2 Source MGI Symbol Acc MGI 98259
B06	UPFM093346 3	ENSMUST00000 208193.1	Ccnd1	ENSMUSG00 000070348	cyclin D1 Source MGI Symbol Acc MGI 88313
B07	UPFM072528 3	ENSMUST00000 204807.1	Cdkn1b	ENSMUSG00 000003031	cyclin-dependent kinase inhibitor 1B Source MGI Symbol Acc MGI 104565
B08	UPFM077928 9	ENSMUST00000 092155.11	Col11a1	ENSMUSG00 000027966	collagen, type XI, alpha 1 Source MGI Symbol Acc MGI 88446
B09	UPFM117294 6	ENSMUST00000 001547.7	Col1a1	ENSMUSG00 000001506	collagen, type I, alpha 1 Source MGI Symbol Acc MGI 88467
B10	UPFM093889 4	ENSMUST00000 087883.12	Col3a1	ENSMUSG00 000026043	collagen, type III, alpha 1 Source MGI Symbol Acc MGI 88453
B11	UPFM092479 4	ENSMUST00000 204748.2	Creb5	ENSMUSG00 000053007	cAMP responsive element binding protein 5 Source MGI Symbol Acc MGI 2443973
B12	UPFM112635 2	ENSMUST00000 123672.7	Crem	ENSMUSG00 000063889	cAMP responsive element modulator Source MGI Symbol Acc MGI 88495
C01	UPFM097354 9	ENSMUST00000 214962.1	Cryab	ENSMUSG00 000032060	crystallin, alpha B Source MGI Symbol Acc MGI 88516
C02	UPFM087841 9	ENSMUST00000 033198.5	Crym	ENSMUSG00 000030905	crystallin, mu Source MGI Symbol Acc MGI 102675
C03	UPFM087426 0	ENSMUST00000 176228.1	Ccn2	ENSMUSG00 000019997	cellular communication network factor 1 Source MGI Symbol Acc MGI 95537
C04	UPFM084136 8	ENSMUST00000 112871.7	Cxcl12	ENSMUSG00 000061353	chemokine (C-X-C motif) ligand 12 Source MGI Symbol Acc MGI 103556
C05	UPFM067651 1	ENSMUST00000 219539.1	Dcn	ENSMUSG00 000019929	decorin Source MGI Symbol Acc MGI 94872
C06	UPFM092933 4	ENSMUST00000 132333.7	Dmd	ENSMUSG00 000045103	dystrophin, muscular dystrophy Source MGI Symbol Acc MGI 94909
C07	UPFM066528 7	ENSMUST00000 220291.1	Dusp6	ENSMUSG00 000019960	dual specificity phosphatase 6 Source MGI Symbol Acc MGI 1914853
C08	UPFM074197 6	ENSMUST00000 195840.1	Enah	ENSMUSG00 000022995	ENAH actin regulator Source MGI Symbol Acc MGI 108360
C09	UPFM082474 7	ENSMUST00000 213181.1	Epor	ENSMUSG00 000006235	erythropoietin receptor Source MGI Symbol Acc MGI 95408
C10	UPFM087068 2	ENSMUST00000 059193.6	F2r	ENSMUSG00 000048376	coagulation factor II (thrombin) receptor Source MGI Symbol Acc MGI 101802
	UPFM086511	ENSMUST00000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	0	188894.6	Fn1	000026193	fibronectin 1 Source MGI Symbol Acc MGI 95566
C12	UPFM071564 3	ENSMUST00000 028389.3	Frzb	ENSMUSG00 000027004	frizzled-related protein Source MGI Symbol Acc MGI 892032
D01	UPFM087283 2	ENSMUST00000 009777.3	G0s2	ENSMUSG00 000009633	G0/G1 switch gene 2 Source MGI Symbol Acc MGI 1316737
D02	UPFM082714 5	ENSMUST00000 068581.8	Gja1	ENSMUSG00 000050953	gap junction protein, alpha 1 Source MGI Symbol Acc MGI 95713
D03	UPFM097431 1	ENSMUST00000 151879.1	Hmgcl	ENSMUSG00 000028672	3-hydroxy-3-methylglutaryl-Coenzyme A lyase Source MGI Symbol Acc MGI 96158
D04	UPFM086447 9	ENSMUST00000 168374.1	Hmgcr	ENSMUSG00 000021670	3-hydroxy-3-methylglutaryl-Coenzyme A reductase Source MGI Symbol Acc MGI 96159
D05	UPFM075488 8	ENSMUST00000 100472.9	Hmgn2	ENSMUSG00 000003038	high mobility group nucleosomal binding domain 2 Source MGI Symbol Acc MGI 96136
D06	UPFM092322 8	ENSMUST00000 160860.8	Klhl3	ENSMUSG00 000014164	kelch-like 3 Source MGI Symbol Acc MGI 2445185
D07	UPFM072891 5	ENSMUST00000 026013.5	Maoa	ENSMUSG00 000025037	monoamine oxidase A Source MGI Symbol Acc MGI 96915
D08	UPFM090296 3	ENSMUST00000 213604.1	Map2k5	ENSMUSG00 000058444	mitogen-activated protein kinase kinase 5 Source MGI Symbol Acc MGI 1346345
D09	UPFM066625 9	ENSMUST00000 232611.1	Mapk1	ENSMUSG00 000063358	mitogen-activated protein kinase 1 Source MGI Symbol Acc MGI 1346858
D10	UPFM091565 7	ENSMUST00000 111944.9	Mapk8	ENSMUSG00 000021936	mitogen-activated protein kinase 8 Source MGI Symbol Acc MGI 1346861
D11	UPFM095086 5	ENSMUST00000 015394.9	Mmp13	ENSMUSG00 000050578	matrix metalloproteinase 13 Source MGI Symbol Acc MGI 1340026
D12	UPFM067219 3	ENSMUST00000 092794.11	Msi2	ENSMUSG00 000069769	musashi RNA-binding protein 2 Source MGI Symbol Acc MGI 1923876
E01	UPFM086212 2	ENSMUST00000 155765.1	Myh10	ENSMUSG00 000020900	myosin, heavy polypeptide 10, non-muscle Source MGI Symbol Acc MGI 1930780
E02	UPFM091994 1	ENSMUST00000 124930.7	Myh6	ENSMUSG00 000040752	myosin, heavy polypeptide 6, cardiac muscle, alpha Source MGI Symbol Acc MGI 97255
E03	UPFM075277 8	ENSMUST00000 139593.7	Ndufb5	ENSMUSG00 000027673	NADH ubiquinone oxidoreductase subunit B5 Source MGI Symbol Acc MGI 1913296
E04	UPFM078998 7	ENSMUST00000 145545.1	Nebi	ENSMUSG00 000053702	nebulin Source MGI Symbol Acc MGI 1921353
E05	UPFM090081 0	ENSMUST00000 107062.8	Nfia	ENSMUSG00 000028565	nuclear factor I/A Source MGI Symbol Acc MGI 108056
E06	UPFM075936 1	ENSMUST00000 015723.4	Nkx2-5	ENSMUSG00 000015579	NK2 homeobox 5 Source MGI Symbol Acc MGI 97350
E07	UPFM098042 7	ENSMUST00000 103230.4	Nppa	ENSMUSG00 000041616	natriuretic peptide type A Source MGI Symbol Acc MGI 97367
E08	UPFM079846 6	ENSMUST00000 103231.4	Nppb	ENSMUSG00 000029019	natriuretic peptide type B Source MGI Symbol Acc MGI 97368
E09	UPFM099009 8	ENSMUST00000 029540.12	Npr1	ENSMUSG00 000027931	natriuretic peptide receptor 1 Source MGI Symbol Acc MGI 97371
E10	UPFM066400 9	ENSMUST00000 130093.7	Npr2	ENSMUSG00 000028469	natriuretic peptide receptor 2 Source MGI Symbol Acc MGI 97372
E11	UPFM083588 4	ENSMUST00000 228603.1	Npr3	ENSMUSG00 000022206	natriuretic peptide receptor 3 Source MGI Symbol Acc MGI 97373
E12	UPFM075838 6	ENSMUST00000 097592.8	Nr3c1	ENSMUSG00 000024431	nuclear receptor subfamily 3, group C, member 1 Source MGI Symbol Acc MGI 95824
F01	UPFM065243 3	ENSMUST00000 109913.8	Nr3c2	ENSMUSG00 000031618	nuclear receptor subfamily 3, group C, member 2 Source MGI Symbol Acc MGI 99459
F02	UPFM072544 5	ENSMUST00000 189060.2	Pde3a	ENSMUSG00 000041741	phosphodiesterase 3A, cGMP-inhibited Source MGI Symbol Acc MGI 1860764
F03	UPFM085178 0	ENSMUST00000 032909.8	Pde3b	ENSMUSG00 000030671	phosphodiesterase 3B, cGMP-inhibited Source MGI Symbol Acc MGI 1333863
F04	UPFM066196 4	ENSMUST00000 200389.1	Pde5a	ENSMUSG00 000053965	phosphodiesterase 5A, cGMP-specific Source MGI Symbol Acc MGI 2651499
F05	UPFM093593 5	ENSMUST00000 121951.1	Pde7a	ENSMUSG00 000069094	phosphodiesterase 7A Source MGI Symbol Acc MGI 1202402
F06	UPFM089942 4	ENSMUST00000 107985.9	Postn	ENSMUSG00 000027750	periostin, osteoblast specific factor Source MGI Symbol Acc MGI 1926321
F07	UPFM079372 2	ENSMUST00000 101534.4	Ptn	ENSMUSG00 000029838	pleiotrophin Source MGI Symbol Acc MGI 97804
F08	UPFM068229 1	ENSMUST00000 054825.4	Rarres1	ENSMUSG00 000049404	retinoic acid receptor responder (tazarotene induced) 1 Source MGI Symbol Acc MGI 1924461
F09	UPFM080094 7	ENSMUST00000 093786.8	Rassf1	ENSMUSG00 000010067	Ras association (RalGDS/AF-6) domain family member 1 Source MGI Symbol Acc MGI 1928386
F10	UPFM088061 4	ENSMUST00000 094556.2	Ren1	ENSMUSG00 000070645	renin 1 structural Source MGI Symbol Acc MGI 97898

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM089016 2	ENSMUST00000 156217.7	Rtn4	ENSMUSG00 000020458	reticulon 4 Source MGI Symbol Acc MGI 1915835
F12	UPFM065258 9	ENSMUST00000 107340.1	S100a1	ENSMUSG00 000044080	S100 calcium binding protein A1 Source MGI Symbol Acc MGI 1338917
G01	UPFM084819 8	ENSMUST00000 069927.9	S100a8	ENSMUSG00 000056054	S100 calcium binding protein A8 (calgranulin A) Source MGI Symbol Acc MGI 88244
G02	UPFM091382 5	ENSMUST00000 222992.1	Sfrp4	ENSMUSG00 000021319	secreted frizzled-related protein 4 Source MGI Symbol Acc MGI 892010
G03	UPFM063188 3	ENSMUST00000 110495.2	Slc12a1	ENSMUSG00 000027202	solute carrier family 12, member 1 Source MGI Symbol Acc MGI 103150
G04	UPFM064366 2	ENSMUST00000 163779.7	Snca	ENSMUSG00 000025889	synuclein, alpha Source MGI Symbol Acc MGI 1277151
G05	UPFM070540 2	ENSMUST00000 187852.6	Spock1	ENSMUSG00 000056222	sparc/osteonectin, cwcv and kazal-like domains proteoglycan 1 Source MGI Symbol Acc MGI 105371
G06	UPFM071531 5	ENSMUST00000 186574.6	Stat1	ENSMUSG00 000026104	signal transducer and activator of transcription 1 Source MGI Symbol Acc MGI 103063
G07	UPFM087881 4	ENSMUST00000 201157.1	Tcf4	ENSMUSG00 000053477	transcription factor 4 Source MGI Symbol Acc MGI 98506
G08	UPFM064532 4	ENSMUST00000 170872.2	Thbs2	ENSMUSG00 000023885	thrombospondin 2 Source MGI Symbol Acc MGI 98738
G09	UPFM095507 3	ENSMUST00000 154913.1	Tnni3	ENSMUSG00 000035458	troponin I, cardiac 3 Source MGI Symbol Acc MGI 98783
G10	UPFM073030 3	ENSMUST00000 179863.7	Tnnt2	ENSMUSG00 000026414	troponin T2, cardiac Source MGI Symbol Acc MGI 104597
G11	UPFM080897 8	ENSMUST00000 019649.3	Ubb	ENSMUSG00 000019505	ubiquitin B Source MGI Symbol Acc MGI 98888
G12	UPFM082860 2	ENSMUST00000 203652.2	Zyx	ENSMUSG00 000029860	zyxin Source MGI Symbol Acc MGI 103072
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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