

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

Mouse Cardiotoxicity

Cat. no. 249955 UPMM-095ZR

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 (Rotor-Gene): QuantiNova LNA Probe 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 Probe PCR Handbook at www.qiagen.com for further details.

	1	2	3	4	5	6	7	8	9	10	11	12
A	Abhd2	Abra	Acta1	Adra2a	Aifm1	Ak3	Ash1l	Atp5j	Bcat1	Bgn	Bsn	Blg2
B	Cd7	Ccr1	Cd14	Cfd	Ch25h	Ckm	Col15a1	Col3a1	Crem	Cenk2a2	Dusp8	Egr1
C	Fcgr2b	Fhl1	Fos1	Gja1	Gpm6a	Hamp	Hspa2	Hsph1	Itih20	Igfbp5	Il6	Ilpr2
D	Klhl41	Klhl40	Kcnj12	Mcm6	Mt1	Nexn	Nfib	Pdk4	Plkn2	Pla2g4a	Plau	Pln
E	Bpifa1	Postn	Ppbp	Ppp1r14c	Prkab2	Psmc2	Psmc7	Pum2	Pvr	Rbm3	Reg3b	Rnd1
F	Rps6kb1	S1pr2	Serpine1	Sik1	Slc4a3	Sox4	Spp1	Tcf4	Tgfb2	Thrap3	Tiam1	Timp1
G	Tubb6	Txnip	Uba5	Ubxn2a	Uck2	Ucp1	Vcan	Vegfa	Vim	Wipi1	Zfp148	Zfp612
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	UPFM069789 4	ENSMUST000000 037315.12	Abhd2	ENSMUSG00 000039202	abhydrolase domain containing 2 Source MGI Symbol Acc MGI 1914344
A02	UPFM065015 8	ENSMUST000000 054742.6	Abra	ENSMUSG00 000042895	actin-binding Rho activating protein Source MGI Symbol Acc MGI 2444891
A03	UPFM074915 5	ENSMUST000000 034453.5	Acta1	ENSMUSG00 000031972	actin, alpha 1, skeletal muscle Source MGI Symbol Acc MGI 87902
A04	UPFM084795 8	ENSMUST000000 036700.6	Adra2a	ENSMUSG00 000033717	adrenergic receptor, alpha 2a Source MGI Symbol Acc MGI 87934
A05	UPFM096772 6	ENSMUST000000 037349.7	Aifm1	ENSMUSG00 000036932	apoptosis-inducing factor, mitochondrion-associated 1 Source MGI Symbol Acc MGI 1349419
A06	UPFM098748 3	ENSMUST000000 025696.4	Ak3	ENSMUSG00 000024782	adenylate kinase 3 Source MGI Symbol Acc MGI 1860835
A07	UPFM080372 3	ENSMUST000000 090933.4	Ash1l	ENSMUSG00 000028053	ASH1 like histone lysine methyltransferase Source MGI Symbol Acc MGI 2183158
A08	UPFM063653 2	ENSMUST000000 114193.7	Atp5j	ENSMUSG00 000022890	ATP synthase, H+ transporting, mitochondrial F0 complex, subunit F Source MGI Symbol Acc MGI 107777
A09	UPFM098217 4	ENSMUST000000 048252.10	Bcat1	ENSMUSG00 000030268	branched chain aminotransferase 1, cytosolic Source MGI Symbol Acc MGI 104861
A10	UPFM063902 1	ENSMUST000000 140803.1	Bgn	ENSMUSG00 000031375	biglycan Source MGI Symbol Acc MGI 88158
A11	UPFM097406 4	ENSMUST000000 124763.1	Bsn	ENSMUSG00 000032589	bassoon Source MGI Symbol Acc MGI 1277955
A12	UPFM082779 6	ENSMUST000000 020692.6	Btg2	ENSMUSG00 000020423	B cell translocation gene 2, anti-proliferative Source MGI Symbol Acc MGI 108384
B01	UPFM093687 7	ENSMUST000000 021011.2	Ccl7	ENSMUSG00 000035373	chemokine (C-C motif) ligand 7 Source MGI Symbol Acc MGI 99512
B02	UPFM098127 6	ENSMUST000000 026911.5	Ccr1	ENSMUSG00 000025804	chemokine (C-C motif) receptor 1 Source MGI Symbol Acc MGI 104618
B03	UPFM093611 0	ENSMUST000000 237042.1	Cd14	ENSMUSG00 000051439	CD14 antigen Source MGI Symbol Acc MGI 88318
B04	UPFM081054 5	ENSMUST000000 217837.1	Cfd	ENSMUSG00 000061780	complement factor D (adipsin) Source MGI Symbol Acc MGI 87931
B05	UPFM099194 0	ENSMUST000000 050562.5	Ch25h	ENSMUSG00 000050370	cholesterol 25-hydroxylase Source MGI Symbol Acc MGI 1333869
B06	UPFM069327 9	ENSMUST000000 003643.2	Ckm	ENSMUSG00 000030399	creatine kinase, muscle Source MGI Symbol Acc MGI 88413
B07	UPFM079258 8	ENSMUST000000 082303.12	Col15a1	ENSMUSG00 000028339	collagen, type XV, alpha 1 Source MGI Symbol Acc MGI 88449
B08	UPFM093889 4	ENSMUST000000 087883.12	Col3a1	ENSMUSG00 000026043	collagen, type III, alpha 1 Source MGI Symbol Acc MGI 88453
B09	UPFM112635 2	ENSMUST000000 123672.7	Crem	ENSMUSG00 000063889	cAMP responsive element modulator Source MGI Symbol Acc MGI 88495
B10	UPFM100968 5	ENSMUST000000 212615.1	Csnk2a2	ENSMUSG00 000046707	casein kinase 2, alpha prime polypeptide Source MGI Symbol Acc MGI 88547
B11	UPFM077892 5	ENSMUST000000 143661.1	Dusp8	ENSMUSG00 000037887	dual specificity phosphatase 8 Source MGI Symbol Acc MGI 106626
B12	UPFM085434 3	ENSMUST000000 165033.1	Egr1	ENSMUSG00 000038418	early growth response 1 Source MGI Symbol Acc MGI 95295
C01	UPFM068224 2	ENSMUST000000 159969.7	Fcgr2b	ENSMUSG00 000026656	Fc receptor, IgG, low affinity IIb Source MGI Symbol Acc MGI 95499
C02	UPFM066322 5	ENSMUST000000 155882.7	Fhl1	ENSMUSG00 000023092	four and a half LIM domains 1 Source MGI Symbol Acc MGI 1298387
C03	UPFM101017 6	ENSMUST000000 235958.1	Fosl1	ENSMUSG00 000024912	fos-like antigen 1 Source MGI Symbol Acc MGI 107179
C04	UPFM082714 5	ENSMUST000000 068581.8	Gja1	ENSMUSG00 000050953	gap junction protein, alpha 1 Source MGI Symbol Acc MGI 95713
C05	UPFM092926 5	ENSMUST000000 033915.8	Gpm6a	ENSMUSG00 000031517	glycoprotein m6a Source MGI Symbol Acc MGI 107671
C06	UPFM067327 0	ENSMUST000000 062620.8	Hamp	ENSMUSG00 000050440	hepcidin antimicrobial peptide Source MGI Symbol Acc MGI 1933533
C07	UPFM100865 4	ENSMUST000000 080449.6	Hspa2	ENSMUSG00 000059970	heat shock protein 2 Source MGI Symbol Acc MGI 96243
C08	UPFM076376 6	ENSMUST000000 202089.3	Hsph1	ENSMUSG00 000029657	heat shock 105kDa/110kDa protein 1 Source MGI Symbol Acc MGI 105053
C09	UPFM078083 6	ENSMUST000000 152016.1	Ift20	ENSMUSG00 000001105	intraflagellar transport 20 Source MGI Symbol Acc MGI 1915585
C10	UPFM069504 1	ENSMUST000000 137339.1	Igfbp5	ENSMUSG00 000026185	insulin-like growth factor binding protein 5 Source MGI Symbol Acc MGI 96440
	UPFM072909	ENSMUST000000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	9	195978.4	Il6	000025746	interleukin 6 Source MGI Symbol Acc MGI 96559
C12	UPFM095040 9	ENSMUST00000 139732.3	Itpr2	ENSMUSG00 000030287	inositol 1,4,5-triphosphate receptor 2 Source MGI Symbol Acc MGI 99418
D01	UPFM090142 3	ENSMUST00000 100050.3	Klhl41	ENSMUSG00 000075307	kelch-like 41 Source MGI Symbol Acc MGI 2683854
D02	UPFM077250 5	ENSMUST00000 098272.3	Klhl40	ENSMUSG00 000074001	kelch-like 40 Source MGI Symbol Acc MGI 1919580
D03	UPFM091954 7	ENSMUST00000 108717.2	Kcnj12	ENSMUSG00 000042529	potassium inwardly-rectifying channel, subfamily J, member 12 Source MGI Symbol Acc MGI 108495
D04	UPFM090297 7	ENSMUST00000 191454.1	Mcm6	ENSMUSG00 000026355	minichromosome maintenance complex component 6 Source MGI Symbol Acc MGI 1298227
D05	UPFM063465 5	ENSMUST00000 211807.1	Mt1	ENSMUSG00 000031765	metallothionein 1 Source MGI Symbol Acc MGI 97171
D06	UPFM063869 6	ENSMUST00000 196529.4	Nexn	ENSMUSG00 000039103	nexilin Source MGI Symbol Acc MGI 1916060
D07	UPFM089959 4	ENSMUST00000 107246.1	Nfib	ENSMUSG00 000008575	nuclear factor I/B Source MGI Symbol Acc MGI 103188
D08	UPFM076170 2	ENSMUST00000 203347.2	Pdk4	ENSMUSG00 000019577	pyruvate dehydrogenase kinase, isoenzyme 4 Source MGI Symbol Acc MGI 1351481
D09	UPFM094103 0	ENSMUST00000 174422.7	Pkn2	ENSMUSG00 000004591	protein kinase N2 Source MGI Symbol Acc MGI 109211
D10	UPFM091674 2	ENSMUST00000 155438.1	Pla2g4a	ENSMUSG00 000056220	phospholipase A2, group IVA (cytosolic, calcium-dependent) Source MGI Symbol Acc MGI 1195256
D11	UPFM083661 6	ENSMUST00000 224141.1	Plau	ENSMUSG00 000021822	plasminogen activator, urokinase Source MGI Symbol Acc MGI 97611
D12	UPFM070175 7	ENSMUST00000 220197.1	Pln	ENSMUSG00 000038583	phospholamban Source MGI Symbol Acc MGI 97622
E01	UPFM098205 3	ENSMUST00000 028985.7	Bpifa1	ENSMUSG00 000027483	BPI fold containing family A, member 1 Source MGI Symbol Acc MGI 1338036
E02	UPFM089942 4	ENSMUST00000 107985.9	Postn	ENSMUSG00 000027750	periostin, osteoblast specific factor Source MGI Symbol Acc MGI 1926321
E03	UPFM117296 0	ENSMUST00000 031319.7	Ppbp	ENSMUSG00 000029372	pro-platelet basic protein Source MGI Symbol Acc MGI 1888712
E04	UPFM069667 8	ENSMUST00000 217573.1	Ppp1r14c	ENSMUSG00 000040653	protein phosphatase 1, regulatory inhibitor subunit 14C Source MGI Symbol Acc MGI 1923392
E05	UPFM073071 8	ENSMUST00000 143927.7	Prkab2	ENSMUSG00 000038205	protein kinase, AMP-activated, beta 2 non-catalytic subunit Source MGI Symbol Acc MGI 1336185
E06	UPFM079885 7	ENSMUST00000 170836.3	Psmc2	ENSMUSG00 000015671	proteasome (prosome, macropain) subunit, alpha type 2 Source MGI Symbol Acc MGI 104885
E07	UPFM067773 1	ENSMUST00000 044106.5	Psmc7	ENSMUSG00 000039067	proteasome (prosome, macropain) 26S subunit, non-ATPase, 7 Source MGI Symbol Acc MGI 1351511
E08	UPFM079832 7	ENSMUST00000 170037.1	Pum2	ENSMUSG00 000020594	pumilio RNA-binding family member 2 Source MGI Symbol Acc MGI 1931751
E09	UPFM093070 0	ENSMUST00000 159413.1	Pvr	ENSMUSG00 000040511	poliovirus receptor Source MGI Symbol Acc MGI 107741
E10	UPFM064870 7	ENSMUST00000 040010.9	Rbm3	ENSMUSG00 000031167	RNA binding motif (RNP1, RRM) protein 3 Source MGI Symbol Acc MGI 1099460
E11	UPFM099343 7	ENSMUST00000 204873.2	Reg3b	ENSMUSG00 000071356	regenerating islet-derived 3 beta Source MGI Symbol Acc MGI 97478
E12	UPFM085155 5	ENSMUST00000 120997.1	Rnd1	ENSMUSG00 000054855	Rho family GTPase 1 Source MGI Symbol Acc MGI 2444878
F01	UPFM063338 0	ENSMUST00000 020824.14	Rps6kb1	ENSMUSG00 000020516	ribosomal protein S6 kinase, polypeptide 1 Source MGI Symbol Acc MGI 1270849
F02	UPFM095152 8	ENSMUST00000 216499.1	S1pr2	ENSMUSG00 000043895	sphingosine-1-phosphate receptor 2 Source MGI Symbol Acc MGI 99569
F03	UPFM070788 6	ENSMUST00000 041388.10	Serpine1	ENSMUSG00 000037411	serine (or cysteine) peptidase inhibitor, clade E, member 1 Source MGI Symbol Acc MGI 97608
F04	UPFM062610 0	ENSMUST00000 024839.5	Sik1	ENSMUSG00 000024042	salt inducible kinase 1 Source MGI Symbol Acc MGI 104754
F05	UPFM094749 1	ENSMUST00000 027415.11	Slc4a3	ENSMUSG00 000006576	solute carrier family 4 (anion exchanger), member 3 Source MGI Symbol Acc MGI 109350
F06	UPFM073614 2	ENSMUST00000 067230.5	Sox4	ENSMUSG00 000076431	SRY (sex determining region Y)-box 4 Source MGI Symbol Acc MGI 98366
F07	UPFM075924 9	ENSMUST00000 112746.7	Spp1	ENSMUSG00 000029304	secreted phosphoprotein 1 Source MGI Symbol Acc MGI 98389
F08	UPFM087881 4	ENSMUST00000 201157.1	Tcf4	ENSMUSG00 000053477	transcription factor 4 Source MGI Symbol Acc MGI 98506
F09	UPFM073116 6	ENSMUST00000 045288.13	Tgfb2	ENSMUSG00 000039239	transforming growth factor, beta 2 Source MGI Symbol Acc MGI 98726
F10	UPFM081715 3	ENSMUST00000 168568.7	Thrap3	ENSMUSG00 000043962	thyroid hormone receptor associated protein 3 Source MGI Symbol Acc MGI 2442637

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM097147 5	ENSMUST00000 130951.7	Tiam1	ENSMUSG00 000002489	T cell lymphoma invasion and metastasis 1 Source MGI Symbol Acc MGI 103306
F12	UPFM079676 3	ENSMUST00000 009530.4	Timp1	ENSMUSG00 000001131	tissue inhibitor of metalloproteinase 1 Source MGI Symbol Acc MGI 98752
G01	UPFM095072 2	ENSMUST00000 001513.7	Tubb6	ENSMUSG00 000001473	tubulin, beta 6 class V Source MGI Symbol Acc MGI 1915201
G02	UPFM067128 4	ENSMUST00000 074519.12	Txnip	ENSMUSG00 000038393	thioredoxin interacting protein Source MGI Symbol Acc MGI 1889549
G03	UPFM064875 2	ENSMUST00000 140768.2	Uba5	ENSMUSG00 000032557	ubiquitin-like modifier activating enzyme 5 Source MGI Symbol Acc MGI 1913913
G04	UPFM089941 2	ENSMUST00000 142867.7	Ubxn2a	ENSMUSG00 000020634	UBX domain protein 2A Source MGI Symbol Acc MGI 2442310
G05	UPFM086396 2	ENSMUST00000 027839.13	Uck2	ENSMUSG00 000026558	uridine-cytidine kinase 2 Source MGI Symbol Acc MGI 1931744
G06	UPFM095120 9	ENSMUST00000 034146.4	Ucp1	ENSMUSG00 000031710	uncoupling protein 1 (mitochondrial, proton carrier) Source MGI Symbol Acc MGI 98894
G07	UPFM092669 5	ENSMUST00000 109544.8	Vcan	ENSMUSG00 000021614	versican Source MGI Symbol Acc MGI 102889
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	UPFM069333 2	ENSMUST00000 106689.1	Wipi1	ENSMUSG00 000041895	WD repeat domain, phosphoinositide interacting 1 Source MGI Symbol Acc MGI 1261864
G11	UPFM065450 4	ENSMUST00000 089677.6	Zfp148	ENSMUSG00 000022811	zinc finger protein 148 Source MGI Symbol Acc MGI 1332234
G12	UPFM086292 4	ENSMUST00000 212754.1	Zfp612	ENSMUSG00 000044676	zinc finger protein 612 Source MGI Symbol Acc MGI 2443465
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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