

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

Mouse Skeletal Muscle: Myogenesis & Myopathy

Cat. no. 249955 UPMM-099ZR

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	Acta1	Actn3	Acr2b	Adipoq	Adrb2	Agrn	Akt1	Akt2	Atp2a1	Bcl2	Bmp4	Camk2g
B	Capn2	Capn3	Casp3	Cast	Cav1	Cav3	Cryab	Cs	Cttnb1	Dag1	Des	Dmd
C	Dmpk	Dysf	Fbxo32	Fgf2	Foxo1	Foxo3	Hdac5	Hk2	Igf1	Igf2	Igfbp3	Igfbp5
D	Ilkbkb	Il1b	Il6	Lep	Lmna	Mapk1	Mapk14	Mapk3	Mapk8	Mb	Mef2c	Mmp9
E	Mstn	Musk	Myf5	Myf6	Myh1	Myh2	Myod1	Myog	Myot	Neb	Nfkb1	Nos2
F	Pax3	Pax7	Pdk4	Pparg	Ppargc1a	Ppargc1b	Ppp3ca	Prkaa1	Prkab2	Prkag1	Prkag3	Rhoa
G	Rps6kb1	Sgca	Slc2a4	Tgfb1	Tnf	Tnnc1	Tnni2	Tnnt1	Tnnt3	Trim63	Ttn	Utrn
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	UPFM074915 5	ENSMUST00000034453.5	Acta1	ENSMUSG0000031972	actin, alpha 1, skeletal muscle Source MGI Symbol Acc MGI 87902
A02	UPFM094492 8	ENSMUST00000138811.1	Actn3	ENSMUSG0000006457	actinin alpha 3 Source MGI Symbol Acc MGI 99678
A03	UPFM084577 1	ENSMUST00000165044.2	Acvr2b	ENSMUSG0000061393	activin receptor IIB Source MGI Symbol Acc MGI 87912
A04	UPFM096756 9	ENSMUST00000023593.5	Adipoq	ENSMUSG0000022878	adiponectin, C1Q and collagen domain containing Source MGI Symbol Acc MGI 106675
A05	UPFM086644 3	ENSMUST00000053640.4	Adrb2	ENSMUSG0000045730	adrenergic receptor, beta 2 Source MGI Symbol Acc MGI 87938
A06	UPFM098292 4	ENSMUST00000181062.7	Agri	ENSMUSG0000041936	agrin Source MGI Symbol Acc MGI 87961
A07	UPFM082786 0	ENSMUST00000139388.2	Akt1	ENSMUSG0000001729	thymoma viral proto-oncogene 1 Source MGI Symbol Acc MGI 87986
A08	UPFM074464 2	ENSMUST00000138459.7	Akt2	ENSMUSG0000004056	thymoma viral proto-oncogene 2 Source MGI Symbol Acc MGI 104874
A09	UPFM093662 5	ENSMUST00000032974.12	Atp2a1	ENSMUSG0000030730	ATPase, Ca++ transporting, cardiac muscle, fast twitch 1 Source MGI Symbol Acc MGI 105058
A10	UPFM063585 3	ENSMUST00000112751.1	Bcl2	ENSMUSG0000057329	B cell leukemia/lymphoma 2 Source MGI Symbol Acc MGI 88138
A11	UPFM097472 7	ENSMUST00000100676.2	Bmp4	ENSMUSG0000021835	bone morphogenetic protein 4 Source MGI Symbol Acc MGI 88180
A12	UPFM094428 2	ENSMUST00000224245.1	Camk2g	ENSMUSG0000021820	calcium/calmodulin-dependent protein kinase II gamma Source MGI Symbol Acc MGI 88259
B01	UPFM090828 3	ENSMUST00000068505.9	Capn2	ENSMUSG0000026509	calpain 2 Source MGI Symbol Acc MGI 88264
B02	UPFM096676 8	ENSMUST00000139336.7	Capn3	ENSMUSG0000079110	calpain 3 Source MGI Symbol Acc MGI 107437
B03	UPFM072895 1	ENSMUST00000210534.1	Casp3	ENSMUSG0000031628	caspase 3 Source MGI Symbol Acc MGI 107739
B04	UPFM091266 2	ENSMUST00000221873.1	Cast	ENSMUSG0000021585	calpastatin Source MGI Symbol Acc MGI 1098236
B05	UPFM094042 8	ENSMUST00000150901.1	Cav1	ENSMUSG0000007655	caveolin 1, caveolae protein Source MGI Symbol Acc MGI 102709
B06	UPFM086615 9	ENSMUST00000075477.7	Cav3	ENSMUSG0000062694	caveolin 3 Source MGI Symbol Acc MGI 107570
B07	UPFM097354 9	ENSMUST00000214962.1	Cryab	ENSMUSG0000032060	crystallin, alpha B Source MGI Symbol Acc MGI 88516
B08	UPFM067430 5	ENSMUST00000005826.8	Cs	ENSMUSG0000005683	citrate synthase Source MGI Symbol Acc MGI 88529
B09	UPFM098586 3	ENSMUST00000154356.7	Ctnnb1	ENSMUSG0000006932	catenin (cadherin associated protein), beta 1 Source MGI Symbol Acc MGI 88276
B10	UPFM066727 9	ENSMUST00000191899.5	Dag1	ENSMUSG0000039952	dystroglycan 1 Source MGI Symbol Acc MGI 101864
B11	UPFM099825 8	ENSMUST00000125948.1	Des	ENSMUSG0000026208	desmin Source MGI Symbol Acc MGI 94885
B12	UPFM092933 4	ENSMUST00000132333.7	Dmd	ENSMUSG0000045103	dystrophin, muscular dystrophy Source MGI Symbol Acc MGI 94909
C01	UPFM084154 9	ENSMUST00000154199.7	Dmpk	ENSMUSG0000030409	dystrophia myotonica-protein kinase Source MGI Symbol Acc MGI 94906
C02	UPFM067087 0	ENSMUST00000081904.6	Dysf	ENSMUSG0000033788	dysferlin Source MGI Symbol Acc MGI 1349385
C03	UPFM089213 6	ENSMUST00000022986.7	Fbxo32	ENSMUSG0000022358	F-box protein 32 Source MGI Symbol Acc MGI 1914981
C04	UPFM073062 9	ENSMUST00000145228.1	Fgf2	ENSMUSG0000037225	fibroblast growth factor 2 Source MGI Symbol Acc MGI 95516
C05	UPFM073382 1	ENSMUST00000053764.6	Foxo1	ENSMUSG0000044167	forkhead box O1 Source MGI Symbol Acc MGI 1890077
C06	UPFM088301 1	ENSMUST00000056974.3	Foxo3	ENSMUSG0000048756	forkhead box O3 Source MGI Symbol Acc MGI 1890081
C07	UPFM099963 6	ENSMUST00000140481.1	Hdac5	ENSMUSG0000008855	histone deacetylase 5 Source MGI Symbol Acc MGI 1333784
C08	UPFM074256 7	ENSMUST0000000642.10	Hk2	ENSMUSG0000000628	hexokinase 2 Source MGI Symbol Acc MGI 1315197
C09	UPFM092941 8	ENSMUST00000121161.7	Igf1	ENSMUSG0000020053	insulin-like growth factor 1 Source MGI Symbol Acc MGI 96432
C10	UPFM080008 1	ENSMUST00000000033.11	Igf2	ENSMUSG0000048583	insulin-like growth factor 2 Source MGI Symbol Acc MGI 96434
	UPFM096898	ENSMUST000000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	6	020702.10	Igfbp3	000020427	insulin-like growth factor binding protein 3 Source MGI Symbol Acc MGI 96438
C12	UPFM069504 1	ENSMUST00000 137339.1	Igfbp5	ENSMUSG00 000026185	insulin-like growth factor binding protein 5 Source MGI Symbol Acc MGI 96440
D01	UPFM086154 1	ENSMUST00000 146212.7	Ikbbk	ENSMUSG00 000031537	inhibitor of kappaB kinase beta Source MGI Symbol Acc MGI 1338071
D02	UPFM067128 1	ENSMUST00000 155994.1	Il1b	ENSMUSG00 000027398	interleukin 1 beta Source MGI Symbol Acc MGI 96543
D03	UPFM072909 9	ENSMUST00000 195978.4	Il6	ENSMUSG00 000025746	interleukin 6 Source MGI Symbol Acc MGI 96559
D04	UPFM068614 7	ENSMUST00000 169505.1	Lep	ENSMUSG00 000059201	leptin Source MGI Symbol Acc MGI 104663
D05	UPFM086433 1	ENSMUST00000 120377.7	Lmna	ENSMUSG00 000028063	lamin A Source MGI Symbol Acc MGI 96794
D06	UPFM066625 9	ENSMUST00000 232611.1	Mapk1	ENSMUSG00 000063358	mitogen-activated protein kinase 1 Source MGI Symbol Acc MGI 1346858
D07	UPFM074684 8	ENSMUST00000 004990.13	Mapk14	ENSMUSG00 000053436	mitogen-activated protein kinase 14 Source MGI Symbol Acc MGI 1346865
D08	UPFM094029 9	ENSMUST00000 205657.1	Mapk3	ENSMUSG00 000063065	mitogen-activated protein kinase 3 Source MGI Symbol Acc MGI 1346859
D09	UPFM091565 7	ENSMUST00000 111944.9	Mapk8	ENSMUSG00 000021936	mitogen-activated protein kinase 8 Source MGI Symbol Acc MGI 1346861
D10	UPFM080880 3	ENSMUST00000 230031.1	Mb	ENSMUSG00 000018893	myoglobin Source MGI Symbol Acc MGI 96922
D11	UPFM062873 4	ENSMUST00000 199262.1	Mef2c	ENSMUSG00 000005583	myocyte enhancer factor 2C Source MGI Symbol Acc MGI 99458
D12	UPFM079930 8	ENSMUST00000 017881.2	Mmp9	ENSMUSG00 000017737	matrix metalloproteinase 9 Source MGI Symbol Acc MGI 97011
E01	UPFM077870 5	ENSMUST00000 027269.6	Mstn	ENSMUSG00 000026100	myostatin Source MGI Symbol Acc MGI 95691
E02	UPFM080901 9	ENSMUST00000 177951.7	Musk	ENSMUSG00 000057280	muscle, skeletal, receptor tyrosine kinase Source MGI Symbol Acc MGI 103581
E03	UPFM080954 1	ENSMUST00000 000445.1	Myf5	ENSMUSG00 000000435	myogenic factor 5 Source MGI Symbol Acc MGI 97252
E04	UPFM073682 5	ENSMUST00000 044210.4	Myf6	ENSMUSG00 000035923	myogenic factor 6 Source MGI Symbol Acc MGI 97253
E05	UPFM074151 7	ENSMUST00000 129018.7	Myh1	ENSMUSG00 000056328	myosin, heavy polypeptide 1, skeletal muscle, adult Source MGI Symbol Acc MGI 1339711
E06	UPFM064454 7	ENSMUST00000 018641.7	Myh2	ENSMUSG00 000033196	myosin, heavy polypeptide 2, skeletal muscle, adult Source MGI Symbol Acc MGI 1339710
E07	UPFM063561 8	ENSMUST00000 072514.2	Myod1	ENSMUSG00 000009471	myogenic differentiation 1 Source MGI Symbol Acc MGI 97275
E08	UPFM095908 2	ENSMUST00000 027730.5	Myog	ENSMUSG00 000026459	myogenin Source MGI Symbol Acc MGI 97276
E09	UPFM100523 6	ENSMUST00000 025349.11	Myot	ENSMUSG00 000024471	myotilin Source MGI Symbol Acc MGI 1889800
E10	UPFM078497 7	ENSMUST00000 209712.1	Neb	ENSMUSG00 000026950	nebulin Source MGI Symbol Acc MGI 97292
E11	UPFM098758 7	ENSMUST00000 029812.13	Nfkb1	ENSMUSG00 000028163	nuclear factor of kappa light polypeptide gene enhancer in B cells 1, p105 Source MGI Symbol Acc MGI 97312
E12	UPFM076964 2	ENSMUST00000 208783.1	Nos2	ENSMUSG00 000020826	nitric oxide synthase 2, inducible Source MGI Symbol Acc MGI 97361
F01	UPFM096336 7	ENSMUST00000 004994.15	Pax3	ENSMUSG00 000004872	paired box 3 Source MGI Symbol Acc MGI 97487
F02	UPFM069198 7	ENSMUST00000 174681.1	Pax7	ENSMUSG00 000028736	paired box 7 Source MGI Symbol Acc MGI 97491
F03	UPFM076170 2	ENSMUST00000 203347.2	Pdk4	ENSMUSG00 000019577	pyruvate dehydrogenase kinase, isoenzyme 4 Source MGI Symbol Acc MGI 1351481
F04	UPFM084296 6	ENSMUST00000 203732.2	Pparg	ENSMUSG00 000000440	peroxisome proliferator activated receptor gamma Source MGI Symbol Acc MGI 97747
F05	UPFM095044 2	ENSMUST00000 031059.13	Ppargc1a	ENSMUSG00 000029167	peroxisome proliferative activated receptor, gamma, coactivator 1 alpha Source MGI Symbol Acc MGI 1342774
F06	UPFM073812 1	ENSMUST00000 075299.12	Ppargc1b	ENSMUSG00 000033871	peroxisome proliferative activated receptor, gamma, coactivator 1 beta Source MGI Symbol Acc MGI 2444934
F07	UPFM100594 6	ENSMUST00000 070198.13	Ppp3ca	ENSMUSG00 000028161	protein phosphatase 3, catalytic subunit, alpha isoform Source MGI Symbol Acc MGI 107164
F08	UPFM089479 8	ENSMUST00000 228218.1	Prkaa1	ENSMUSG00 000050697	protein kinase, AMP-activated, alpha 1 catalytic subunit Source MGI Symbol Acc MGI 2145955
F09	UPFM073071 8	ENSMUST00000 143927.7	Prkab2	ENSMUSG00 000038205	protein kinase, AMP-activated, beta 2 non-catalytic subunit Source MGI Symbol Acc MGI 1336185
F10	UPFM086361 1	ENSMUST00000 230560.1	Prkag1	ENSMUSG00 000067713	protein kinase, AMP-activated, gamma 1 non-catalytic subunit Source MGI Symbol Acc MGI 108411

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM079657 6	ENSMUST00000 081636.12	Prkag3	ENSMUSG00 000006542	protein kinase, AMP-activated, gamma 3 non-catalytic subunit Source MGI Symbol Acc MGI 1891343
F12	UPFM080926 1	ENSMUST00000 007959.13	Rhoa	ENSMUSG00 000007815	ras homolog family member A Source MGI Symbol Acc MGI 1096342
G01	UPFM063338 0	ENSMUST00000 020824.14	Rps6kb1	ENSMUSG00 000020516	ribosomal protein S6 kinase, polypeptide 1 Source MGI Symbol Acc MGI 1270849
G02	UPFM069529 2	ENSMUST00000 103162.7	Sgca	ENSMUSG00 000001508	sarcoglycan, alpha (dystrophin-associated glycoprotein) Source MGI Symbol Acc MGI 894698
G03	UPFM070742 3	ENSMUST00000 018710.12	Slc2a4	ENSMUSG00 000018566	solute carrier family 2 (facilitated glucose transporter), member 4 Source MGI Symbol Acc MGI 95758
G04	UPFM066688 0	ENSMUST00000 171757.1	Tgfb1	ENSMUSG00 000002603	transforming growth factor, beta 1 Source MGI Symbol Acc MGI 98725
G05	UPFM063847 1	ENSMUST00000 025263.14	Tnf	ENSMUSG00 000024401	tumor necrosis factor Source MGI Symbol Acc MGI 104798
G06	UPFM090099 7	ENSMUST00000 161399.1	Tnnc1	ENSMUSG00 000091898	troponin C, cardiac/slow skeletal Source MGI Symbol Acc MGI 98779
G07	UPFM097742 7	ENSMUST00000 210239.1	Tnni2	ENSMUSG00 000031097	troponin I, skeletal, fast 2 Source MGI Symbol Acc MGI 105070
G08	UPFM082106 8	ENSMUST00000 166268.7	Tnnt1	ENSMUSG00 000064179	troponin T1, skeletal, slow Source MGI Symbol Acc MGI 1333868
G09	UPFM078614 3	ENSMUST00000 105957.9	Tnnt3	ENSMUSG00 000061723	troponin T3, skeletal, fast Source MGI Symbol Acc MGI 109550
G10	UPFM065168 7	ENSMUST00000 030638.6	Trim63	ENSMUSG00 000028834	tripartite motif-containing 63 Source MGI Symbol Acc MGI 2447992
G11	UPFM095721 7	ENSMUST00000 130915.7	Ttn	ENSMUSG00 000051747	titin Source MGI Symbol Acc MGI 98864
G12	UPFM094535 2	ENSMUST00000 076817.4	Utrn	ENSMUSG00 000019820	utrophin Source MGI Symbol Acc MGI 104631
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 µl reactions: 20 µl 8x gDNA Removal Mix, 10 µl Reverse Transcription Enzyme, 40 µl Reverse Transcription Mix (containing RT primers), 20 µl Internal Control RNA, 1.9 ml RNase-Free Water	205410
QuantiNova Probe RT-PCR Kit (100)*	For 100 x 20 µl reactions: 1 ml QuantiNova Probe RT-PCR Master Mix, 20 µl QuantiNova Probe RT Mix, 20 µl Internal Control RNA, 500 µl Yellow Template Dilution Buffer, 250 µl ROX Reference Dye, 1.9 µl RNase-Free Water	208352
QuantiNova Probe PCR Kit (100)*	For 100 x 20 µl reactions: 1 ml 2x QuantiNova Probe PCR Master Mix, 500 µl QuantiNova Yellow Template Dilution Buffer, 250 µl 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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