

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

Mouse Male Infertility

Cat. no. 249955 UPMM-165ZR

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	Acsbg2	Adcy10	Ahr	Akap14	Akap4	Amh	Apob	Ar	Bcll	Brd2	Brdt	Carhsp1
B	Catsper1	Catsper4	Ccnb1	Cd46	Cdo1	Creb1	Crem	Crisp2	Crisp4	Cul3	Cyp19a1	Dazl
C	Ddx25	Ddx4	Dmrt1	Dnajb8	Dnajc28	Eif2b4	Eif4g3	Fos	Fbxo5	Fos	Gli3	Adgrg2
D	Gpx1	Hdac1	Hmox1	Hsd17b7	Hsf2	Hspo4l	Il16	Klh10	Lama5	Lep	Lhcgr	Lmna
E	Mcm8	Mll3	Ndufs7	Nfkbia	Npc2	Odf1	Park7	Pcsk4	Pdzd8	Pgk2	Pwil1	Plcz1
F	Prdx3	Prm2	Serpina5	Slc25a5	Slc26a8	Smarca2	Sod1	Sod2	Spo11	Spz1	Srpkl	Stag3
G	Sycp3	Tbp	Tcp11	Tex11	Tnp1	Trim36	Trpd52l3	Tsga10	Ubap2	Uchl1	Wapl	Zp3
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	UPFM071368 3	ENSMUST00000 043062.4	Acsbg2	ENSMUSG00 000024207	acyl-CoA synthetase bubblegum family member 2 Source MGI Symbol Acc MGI 3587728
A02	UPFM080261 1	ENSMUST00000 148550.7	Adcy10	ENSMUSG00 000026567	adenylate cyclase 10 Source MGI Symbol Acc MGI 2660854
A03	UPFM087474 3	ENSMUST00000 116436.8	Ahr	ENSMUSG00 000019256	aryl-hydrocarbon receptor Source MGI Symbol Acc MGI 105043
A04	UPFM075673 0	ENSMUST00000 046557.5	Akap14	ENSMUSG00 000036551	A kinase (PRKA) anchor protein 14 Source MGI Symbol Acc MGI 3618288
A05	UPFM080627 7	ENSMUST00000 057101.12	Akap4	ENSMUSG00 000050089	A kinase (PRKA) anchor protein 4 Source MGI Symbol Acc MGI 102794
A06	UPFM065734 5	ENSMUST00000 036016.5	Amh	ENSMUSG00 000035262	anti-Mullerian hormone Source MGI Symbol Acc MGI 88006
A07	UPFM098734 1	ENSMUST00000 171271.7	Apob	ENSMUSG00 000020609	apolipoprotein B Source MGI Symbol Acc MGI 88052
A08	UPFM078422 2	ENSMUST00000 052837.8	Ar	ENSMUSG00 000046532	androgen receptor Source MGI Symbol Acc MGI 88064
A09	UPFM063558 7	ENSMUST00000 087585.9	Boll	ENSMUSG00 000025977	boule homolog, RNA binding protein Source MGI Symbol Acc MGI 1922638
A10	UPFM072260 9	ENSMUST00000 142570.1	Brd2	ENSMUSG00 000024335	bromodomain containing 2 Source MGI Symbol Acc MGI 99495
A11	UPFM073460 8	ENSMUST00000 112677.9	Brdt	ENSMUSG00 000029279	bromodomain, testis-specific Source MGI Symbol Acc MGI 1891374
A12	UPFM088447 7	ENSMUST00000 008537.9	Carhsp1	ENSMUSG00 000008393	calcium regulated heat stable protein 1 Source MGI Symbol Acc MGI 1196368
B01	UPFM097980 0	ENSMUST00000 043380.4	Catsper1	ENSMUSG00 000038498	cation channel, sperm associated 1 Source MGI Symbol Acc MGI 2179947
B02	UPFM063133 8	ENSMUST00000 055892.9	Catsper4	ENSMUSG00 000048003	cation channel, sperm associated 4 Source MGI Symbol Acc MGI 3043288
B03	UPFM091925 2	ENSMUST00000 147790.1	Ccnb1	ENSMUSG00 000041431	cyclin B1 Source MGI Symbol Acc MGI 88302
B04	UPFM099063 2	ENSMUST00000 161772.7	Cd46	ENSMUSG00 000016493	CD46 antigen, complement regulatory protein Source MGI Symbol Acc MGI 1203290
B05	UPFM089936 1	ENSMUST00000 035804.8	Cdo1	ENSMUSG00 000033022	cysteine dioxygenase 1, cytosolic Source MGI Symbol Acc MGI 105925
B06	UPFM085293 8	ENSMUST00000 087366.10	Creb1	ENSMUSG00 000025958	cAMP responsive element binding protein 1 Source MGI Symbol Acc MGI 88494
B07	UPFM112635 2	ENSMUST00000 123672.7	Creml	ENSMUSG00 000063889	cAMP responsive element modulator Source MGI Symbol Acc MGI 88495
B08	UPFM072289 0	ENSMUST00000 233679.1	Crisp2	ENSMUSG00 000023930	cysteine-rich secretory protein 2 Source MGI Symbol Acc MGI 98815
B09	UPFM090712 9	ENSMUST00000 115344.1	Crisp4	ENSMUSG00 000025774	cysteine-rich secretory protein 4 Source MGI Symbol Acc MGI 1925331
B10	UPFM097111 2	ENSMUST00000 164108.7	Cul3	ENSMUSG00 000004364	cullin 3 Source MGI Symbol Acc MGI 1347360
B11	UPFM074620 1	ENSMUST00000 215736.1	Cyp19a1	ENSMUSG00 000032274	cytochrome P450, family 19, subfamily a, polypeptide 1 Source MGI Symbol Acc MGI 88587
B12	UPFM076317 9	ENSMUST00000 233248.1	Dazl	ENSMUSG00 000010592	deleted in azoospermia-like Source MGI Symbol Acc MGI 1342328
C01	UPFM066655 8	ENSMUST00000 034612.6	Ddx25	ENSMUSG00 000032101	DEAD (Asp-Glu-Ala-Asp) box polypeptide 25 Source MGI Symbol Acc MGI 1353582
C02	UPFM061894 6	ENSMUST00000 075748.6	Ddx4	ENSMUSG00 000021758	DEAD (Asp-Glu-Ala-Asp) box polypeptide 4 Source MGI Symbol Acc MGI 102670
C03	UPFM062457 1	ENSMUST00000 087525.4	Dmrt1	ENSMUSG00 000024837	doublesex and mab-3 related transcription factor 1 Source MGI Symbol Acc MGI 1354733
C04	UPFM099717 7	ENSMUST00000 061866.5	Dnajb8	ENSMUSG00 000048206	DnaJ heat shock protein family (Hsp40) member B8 Source MGI Symbol Acc MGI 1922801
C05	UPFM098792 2	ENSMUST00000 133731.1	Dnajc28	ENSMUSG00 000039763	DnaJ heat shock protein family (Hsp40) member C28 Source MGI Symbol Acc MGI 2181053
C06	UPFM073701 9	ENSMUST00000 200724.1	Eif2b4	ENSMUSG00 000029145	eukaryotic translation initiation factor 2B, subunit 4 delta Source MGI Symbol Acc MGI 95300
C07	UPFM075262 2	ENSMUST00000 105830.8	Eif4g3	ENSMUSG00 000028760	eukaryotic translation initiation factor 4 gamma, 3 Source MGI Symbol Acc MGI 1923935
C08	UPFM099578 7	ENSMUST00000 235709.1	Fas	ENSMUSG00 000024778	Fas (TNF receptor superfamily member 6) Source MGI Symbol Acc MGI 95484
C09	UPFM095234 0	ENSMUST00000 019907.7	Fbxo5	ENSMUSG00 000019773	F-box protein 5 Source MGI Symbol Acc MGI 1914391
C10	UPFM076456 3	ENSMUST00000 136122.7	Fos	ENSMUSG00 000021250	FBJ osteosarcoma oncogene Source MGI Symbol Acc MGI 95574
	UPFM097283	ENSMUST00000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	2	141194.7	Gli3	000021318	GLI-Kruppel family member GLI3 Source MGI Symbol Acc MGI 95729
C12	UPFM085896 2	ENSMUST00000 112404.8	Adgrg2	ENSMUSG00 000031298	adhesion G protein-coupled receptor G2 Source MGI Symbol Acc MGI 2446854
D01	UPFM091057 8	ENSMUST00000 193987.1	Gpx1	ENSMUSG00 000063856	glutathione peroxidase 1 Source MGI Symbol Acc MGI 104887
D02	UPFM093590 7	ENSMUST00000 125718.7	Hdac1	ENSMUSG00 000028800	histone deacetylase 1 Source MGI Symbol Acc MGI 108086
D03	UPFM070898 7	ENSMUST00000 005548.7	Hmox1	ENSMUSG00 000005413	heme oxygenase 1 Source MGI Symbol Acc MGI 96163
D04	UPFM064570 2	ENSMUST00000 133563.7	Hsd17b7	ENSMUSG00 000026675	hydroxysteroid (17-beta) dehydrogenase 7 Source MGI Symbol Acc MGI 1330808
D05	UPFM075018 0	ENSMUST00000 220353.1	Hsf2	ENSMUSG00 000019878	heat shock factor 2 Source MGI Symbol Acc MGI 96239
D06	UPFM085183 7	ENSMUST00000 203353.2	Hspa4l	ENSMUSG00 000025757	heat shock protein 4 like Source MGI Symbol Acc MGI 107422
D07	UPFM063833 4	ENSMUST00000 001792.11	Il16	ENSMUSG00 000001741	interleukin 16 Source MGI Symbol Acc MGI 1270855
D08	UPFM092662 8	ENSMUST00000 107395.2	Klhl10	ENSMUSG00 000001558	kelch-like 10 Source MGI Symbol Acc MGI 2181067
D09	UPFM091181 1	ENSMUST00000 130796.1	Lama5	ENSMUSG00 000015647	laminin, alpha 5 Source MGI Symbol Acc MGI 105382
D10	UPFM068614 7	ENSMUST00000 169505.1	Lep	ENSMUSG00 000059201	leptin Source MGI Symbol Acc MGI 104663
D11	UPFM084751 1	ENSMUST00000 024916.6	Lhcgr	ENSMUSG00 000024107	lutetizing hormone/choriogonadotropin receptor Source MGI Symbol Acc MGI 96783
D12	UPFM086433 1	ENSMUST00000 120377.7	Lmna	ENSMUSG00 000028063	lamin A Source MGI Symbol Acc MGI 96794
E01	UPFM072908 1	ENSMUST00000 066559.5	Mcm8	ENSMUSG00 000027353	minichromosome maintenance 8 homologous recombination repair factor Source MGI Symbol Acc MGI 1913884
E02	UPFM062358 6	ENSMUST00000 126353.7	Mllt3	ENSMUSG00 000028496	myeloid/lymphoid or mixed-lineage leukemia translocated to, 3 Source MGI Symbol Acc MGI 1917372
E03	UPFM100991 8	ENSMUST00000 020361.6	Ndufs7	ENSMUSG00 000020153	NADH ubiquinone oxidoreductase core subunit S7 Source MGI Symbol Acc MGI 1922656
E04	UPFM072174 5	ENSMUST00000 021413.8	Nfkbia	ENSMUSG00 000021025	nuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor, alpha Source MGI Symbol Acc MGI 104741
E05	UPFM081151 8	ENSMUST00000 221056.1	Npc2	ENSMUSG00 000021242	NPC intracellular cholesterol transporter 2 Source MGI Symbol Acc MGI 1915213
E06	UPFM064343 6	ENSMUST00000 081966.4	Odf1	ENSMUSG00 000061923	outer dense fiber of sperm tails 1 Source MGI Symbol Acc MGI 97424
E07	UPFM067600 6	ENSMUST00000 146184.2	Park7	ENSMUSG00 000028964	Parkinson disease (autosomal recessive, early onset) 7 Source MGI Symbol Acc MGI 2135637
E08	UPFM066273 4	ENSMUST00000 020340.14	Pcsk4	ENSMUSG00 000020131	proprotein convertase subtilisin/kexin type 4 Source MGI Symbol Acc MGI 97514
E09	UPFM099853 1	ENSMUST00000 099274.3	Pdzd8	ENSMUSG00 000074746	PDZ domain containing 8 Source MGI Symbol Acc MGI 2677270
E10	UPFM064208 0	ENSMUST00000 033585.6	Pgk2	ENSMUSG00 000031233	phosphoglycerate kinase 2 Source MGI Symbol Acc MGI 97563
E11	UPFM087126 4	ENSMUST00000 086056.7	Piwi1	ENSMUSG00 000029423	piwi-like RNA-mediated gene silencing 1 Source MGI Symbol Acc MGI 1928897
E12	UPFM063361 2	ENSMUST00000 032356.12	Plcz1	ENSMUSG00 000030230	phospholipase C, zeta 1 Source MGI Symbol Acc MGI 2150308
F01	UPFM095461 5	ENSMUST00000 025961.6	Prdx3	ENSMUSG00 000024997	peroxiredoxin 3 Source MGI Symbol Acc MGI 88034
F02	UPFM084120 7	ENSMUST00000 189593.1	Prm2	ENSMUSG00 000038015	protamine 2 Source MGI Symbol Acc MGI 97766
F03	UPFM062263 4	ENSMUST00000 021495.3	Serpina5	ENSMUSG00 000041550	serine (or cysteine) peptidase inhibitor, clade A, member 5 Source MGI Symbol Acc MGI 107817
F04	UPFM087152 8	ENSMUST00000 016463.3	Slc25a5	ENSMUSG00 000016319	solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 5 Source MGI Symbol Acc MGI 1353496
F05	UPFM067816 8	ENSMUST00000 233689.1	Slc26a8	ENSMUSG00 000036196	solute carrier family 26, member 8 Source MGI Symbol Acc MGI 2385046
F06	UPFM081443 1	ENSMUST00000 177252.8	Smarca2	ENSMUSG00 000024921	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 Source MGI Symbol Acc MGI 99603
F07	UPFM092762 0	ENSMUST00000 023707.10	Sod1	ENSMUSG00 000022982	superoxide dismutase 1, soluble Source MGI Symbol Acc MGI 98351
F08	UPFM095033 7	ENSMUST00000 233897.1	Sod2	ENSMUSG00 000006818	superoxide dismutase 2, mitochondrial Source MGI Symbol Acc MGI 98352
F09	UPFM087853 9	ENSMUST00000 109125.7	Spo11	ENSMUSG00 000005883	SPO11 meiotic protein covalently bound to DSB Source MGI Symbol Acc MGI 1349669
F10	UPFM081316 3	ENSMUST00000 050658.5	Spz1	ENSMUSG00 000046957	spermatogenic leucine zipper 1 Source MGI Symbol Acc MGI 1930801

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM0783620	ENSMUST00000232751.1	Srpk1	ENSMUSG0000004865	serine/arginine-rich protein specific kinase 1 Source MGI Symbol Acc MGI 106908
F12	UPFM0900927	ENSMUST00000048028.14	Stag3	ENSMUSG00000036928	stromal antigen 3 Source MGI Symbol Acc MGI 1355311
G01	UPFM0851828	ENSMUST00000123244.7	Sypc3	ENSMUSG00000020059	synaptonemal complex protein 3 Source MGI Symbol Acc MGI 109542
G02	UPFM0862548	ENSMUST00000162505.7	Tbp	ENSMUSG00000014767	TATA box binding protein Source MGI Symbol Acc MGI 101838
G03	UPFM0942629	ENSMUST00000114836.8	Tcp11	ENSMUSG00000062859	t-complex protein 11 Source MGI Symbol Acc MGI 98544
G04	UPFM0903331	ENSMUST00000009814.9	Tex11	ENSMUSG00000009670	testis expressed gene 11 Source MGI Symbol Acc MGI 1933237
G05	UPFM0730189	ENSMUST00000027374.6	Tnp1	ENSMUSG00000026182	transition protein 1 Source MGI Symbol Acc MGI 98784
G06	UPFM0670160	ENSMUST00000037011.5	Trim36	ENSMUSG00000033949	tripartite motif-containing 36 Source MGI Symbol Acc MGI 106264
G07	UPFM0856101	ENSMUST00000025727.5	Trpd52l3	ENSMUSG00000024815	tumor protein D52-like 3 Source MGI Symbol Acc MGI 1913995
G08	UPFM0847934	ENSMUST00000088072.9	Tsga10	ENSMUSG00000060771	testis specific 10 Source MGI Symbol Acc MGI 2685063
G09	UPFM0868216	ENSMUST00000108068.7	Ubap2	ENSMUSG00000028433	ubiquitin-associated protein 2 Source MGI Symbol Acc MGI 1916176
G10	UPFM0809669	ENSMUST00000031131.10	Uchl1	ENSMUSG00000029223	ubiquitin carboxy-terminal hydrolase L1 Source MGI Symbol Acc MGI 103149
G11	UPFM0678837	ENSMUST00000111895.7	Wapl	ENSMUSG00000041408	WAPL cohesin release factor Source MGI Symbol Acc MGI 2675859
G12	UPFM0910974	ENSMUST00000005073.12	Zp3	ENSMUSG00000004948	zona pellucida glycoprotein 3 Source MGI Symbol Acc MGI 99215
H01	UPFM1132946	ENSMUST00000163829.1	Actb	ENSMUSG00000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	UPFM1132947	ENSMUST00000102476.4	B2m	ENSMUSG00000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	UPFM1132948	ENSMUST00000117757.8	Gapdh	ENSMUSG00000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	UPFM1132949	ENSMUST00000026613.13	Gusb	ENSMUSG00000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	UPFM1132950	ENSMUST00000166469.7	Hsp90ab1	ENSMUSG00000023944	heat shock protein 90 alpha (cytosolic), class B member 1 Source MGI Symbol Acc MGI 96247
H06	UPFM1126609	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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