

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

Mouse Obesity

Cat. no. 249955 UPMM-017ZR

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	Adcyap1	Adcyap1r1	Adipoq	Adipor1	Adipor2	Adra2b	Adrb1	Agrp	Apoa4	Atrn	Bdnf	Brs3
B	C3	Calca	Calcr	Cartpt	Cck	Cckar	Clps	Cnr1	Cntfr	Cpd	Cpe	Crhr1
C	Drd1	Drd2	Gal	Galr1	Gcg	Gcgr	Gh	Ghr	Ghr1	Ghr	Gip1r	Grp
D	Grpr	Hcr1	Hcr1r1	Hrh1	Htr2c	Iapp	Il1a	Il1b	Il1r1	Il6	Il6ra	Ins1
E	Ins2	Insr	Lep	Lepr	Mc3r	Mchr1	Nmb	Nmbr	Nmu	Nmur1	Npy	Npy1r
F	Nr3c1	Ntrk2	Nts	Ntr1	Oprk1	Oprm1	Pomc	Ppara	Pparg	Ppargc1a	Prhr	Ptpn1
G	Pyy	Ramp3	Sigmar1	Sort1	Sat	Satr2	Thrb	Tnf	Trh	Ucn	Ucp1	Zfp91
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	UPFM067624 6	ENSMUST00000 234663.1	Adcyap1	ENSMUSG00 000024256	adenylate cyclase activating polypeptide 1 Source MGI Symbol Acc MGI 105094
A02	UPFM090398 1	ENSMUST00000 165786.1	Adcyap1r1	ENSMUSG00 000029778	adenylate cyclase activating polypeptide 1 receptor 1 Source MGI Symbol Acc MGI 108449
A03	UPFM096756 9	ENSMUST00000 023593.5	Adipoq	ENSMUSG00 000022878	adiponectin, C1Q and collagen domain containing Source MGI Symbol Acc MGI 106675
A04	UPFM075897 6	ENSMUST00000 148822.1	Adipor1	ENSMUSG00 000026457	adiponectin receptor 1 Source MGI Symbol Acc MGI 1919924
A05	UPFM089965 7	ENSMUST00000 169744.7	Adipor2	ENSMUSG00 000030168	adiponectin receptor 2 Source MGI Symbol Acc MGI 93830
A06	UPFM070077 0	ENSMUST00000 104934.1	Adra2b	ENSMUSG00 000058620	adrenergic receptor, alpha 2b Source MGI Symbol Acc MGI 87935
A07	UPFM072017 1	ENSMUST00000 038949.5	Adrb1	ENSMUSG00 000035283	adrenergic receptor, beta 1 Source MGI Symbol Acc MGI 87937
A08	UPFM068245 0	ENSMUST00000 194091.5	Agrp	ENSMUSG00 000005705	agouti related neuropeptide Source MGI Symbol Acc MGI 892013
A09	UPFM063211 6	ENSMUST00000 034585.6	Apoa4	ENSMUSG00 000032080	apolipoprotein A-IV Source MGI Symbol Acc MGI 88051
A10	UPFM073635 0	ENSMUST00000 156982.1	Atrn	ENSMUSG00 000027312	attractin Source MGI Symbol Acc MGI 1341628
A11	UPFM085815 5	ENSMUST00000 111049.8	Bdnf	ENSMUSG00 000048482	brain derived neurotrophic factor Source MGI Symbol Acc MGI 88145
A12	UPFM099756 8	ENSMUST00000 033464.3	Brs3	ENSMUSG00 000031130	bombesin-like receptor 3 Source MGI Symbol Acc MGI 1100501
B01	UPFM087588 6	ENSMUST00000 177046.1	C3	ENSMUSG00 000024164	complement component 3 Source MGI Symbol Acc MGI 88227
B02	UPFM069603 9	ENSMUST00000 032906.10	Calca	ENSMUSG00 000030669	calcitonin/calcitonin-related polypeptide, alpha Source MGI Symbol Acc MGI 2151253
B03	UPFM068358 9	ENSMUST00000 115622.7	Calcr	ENSMUSG00 000023964	calcitonin receptor Source MGI Symbol Acc MGI 101950
B04	UPFM070355 1	ENSMUST00000 224142.1	Cartpt	ENSMUSG00 000021647	CART prepropeptide Source MGI Symbol Acc MGI 1351330
B05	UPFM063182 8	ENSMUST00000 215228.1	Cck	ENSMUSG00 000032532	cholecystokinin Source MGI Symbol Acc MGI 88297
B06	UPFM088554 0	ENSMUST00000 031093.4	Cckar	ENSMUSG00 000029193	cholecystokinin A receptor Source MGI Symbol Acc MGI 99478
B07	UPFM076066 2	ENSMUST00000 114785.2	Clps	ENSMUSG00 000024225	colipase, pancreatic Source MGI Symbol Acc MGI 88421
B08	UPFM077796 2	ENSMUST00000 057188.6	Cnr1	ENSMUSG00 000044288	cannabinoid receptor 1 (brain) Source MGI Symbol Acc MGI 104615
B09	UPFM080000 3	ENSMUST00000 102961.9	Cnfr	ENSMUSG00 000028444	ciliary neurotrophic factor receptor Source MGI Symbol Acc MGI 99605
B10	UPFM069257 1	ENSMUST00000 021201.5	Cpd	ENSMUSG00 000020841	carboxypeptidase D Source MGI Symbol Acc MGI 107265
B11	UPFM076529 5	ENSMUST00000 048967.8	Cpe	ENSMUSG00 000037852	carboxypeptidase E Source MGI Symbol Acc MGI 101932
B12	UPFM087440 4	ENSMUST00000 093925.4	Crhr1	ENSMUSG00 000018634	corticotropin releasing hormone receptor 1 Source MGI Symbol Acc MGI 88498
C01	UPFM082760 2	ENSMUST00000 021932.5	Drd1	ENSMUSG00 000021478	dopamine receptor D1 Source MGI Symbol Acc MGI 99578
C02	UPFM085072 5	ENSMUST00000 075764.7	Drd2	ENSMUSG00 000032259	dopamine receptor D2 Source MGI Symbol Acc MGI 94924
C03	UPFM087979 6	ENSMUST00000 237521.1	Gal	ENSMUSG00 000024907	galanin Source MGI Symbol Acc MGI 95637
C04	UPFM086463 5	ENSMUST00000 065224.7	Galr1	ENSMUSG00 000024553	galanin receptor 1 Source MGI Symbol Acc MGI 1096364
C05	UPFM079261 6	ENSMUST00000 136686.1	Gcg	ENSMUSG00 000000394	glucagon Source MGI Symbol Acc MGI 95674
C06	UPFM097461 2	ENSMUST00000 026119.7	Gcgr	ENSMUSG00 000025127	glucagon receptor Source MGI Symbol Acc MGI 99572
C07	UPFM081238 7	ENSMUST00000 103071.3	Gh	ENSMUSG00 000020713	growth hormone Source MGI Symbol Acc MGI 95707
C08	UPFM079187 0	ENSMUST00000 161770.1	Ghr	ENSMUSG00 000055737	growth hormone receptor Source MGI Symbol Acc MGI 95708
C09	UPFM067689 0	ENSMUST00000 203588.1	Ghrl	ENSMUSG00 000064177	ghrelin Source MGI Symbol Acc MGI 1930008
C10	UPFM088739 5	ENSMUST00000 057186.1	Ghsr	ENSMUSG00 000051136	growth hormone secretagogue receptor Source MGI Symbol Acc MGI 2441906
	UPFM082239	ENSMUST00000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	4	236038.1	Glp1r	000024027	glucagon-like peptide 1 receptor Source MGI Symbol Acc MGI 99571
C12	UPFM086436 1	ENSMUST00000 025395.9	Grp	ENSMUSG00 000024517	gastrin releasing peptide Source MGI Symbol Acc MGI 95833
D01	UPFM088853 2	ENSMUST00000 033730.2	Grpr	ENSMUSG00 000031364	gastrin releasing peptide receptor Source MGI Symbol Acc MGI 95836
D02	UPFM072207 5	ENSMUST00000 107360.2	Hcrt	ENSMUSG00 000045471	hypocretin Source MGI Symbol Acc MGI 1202306
D03	UPFM067856 8	ENSMUST00000 164887.2	Hcrt1	ENSMUSG00 000028778	hypocretin (orexin) receptor 1 Source MGI Symbol Acc MGI 2385650
D04	UPFM076041 0	ENSMUST00000 160780.1	Hrh1	ENSMUSG00 000053004	histamine receptor H1 Source MGI Symbol Acc MGI 107619
D05	UPFM090742 9	ENSMUST00000 112831.2	Htr2c	ENSMUSG00 000041380	5-hydroxytryptamine (serotonin) receptor 2C Source MGI Symbol Acc MGI 96281
D06	UPFM072134 7	ENSMUST00000 141583.1	Iapp	ENSMUSG00 000041681	islet amyloid polypeptide Source MGI Symbol Acc MGI 96382
D07	UPFM090388 7	ENSMUST00000 028882.1	Il1a	ENSMUSG00 000027399	interleukin 1 alpha Source MGI Symbol Acc MGI 96542
D08	UPFM067128 1	ENSMUST00000 155994.1	Il1b	ENSMUSG00 000027398	interleukin 1 beta Source MGI Symbol Acc MGI 96543
D09	UPFM070319 9	ENSMUST00000 114795.2	Il1r1	ENSMUSG00 000026072	interleukin 1 receptor, type I Source MGI Symbol Acc MGI 96545
D10	UPFM072909 9	ENSMUST00000 195978.4	Il6	ENSMUSG00 000025746	interleukin 6 Source MGI Symbol Acc MGI 96559
D11	UPFM100017 7	ENSMUST00000 029559.6	Il6ra	ENSMUSG00 000027947	interleukin 6 receptor, alpha Source MGI Symbol Acc MGI 105304
D12	UPFM086188 0	ENSMUST00000 039652.5	Ins1	ENSMUSG00 000035804	insulin I Source MGI Symbol Acc MGI 96572
E01	UPFM100267 5	ENSMUST00000 210288.1	Ins2	ENSMUSG00 000000215	insulin II Source MGI Symbol Acc MGI 96573
E02	UPFM062502 4	ENSMUST00000 207100.1	Insr	ENSMUSG00 000005534	insulin receptor Source MGI Symbol Acc MGI 96575
E03	UPFM068614 7	ENSMUST00000 169505.1	Lep	ENSMUSG00 000059201	leptin Source MGI Symbol Acc MGI 104663
E04	UPFM097537 4	ENSMUST00000 128948.7	Lepr	ENSMUSG00 000057722	leptin receptor Source MGI Symbol Acc MGI 104993
E05	UPFM098313 9	ENSMUST00000 038532.1	Mc3r	ENSMUSG00 000038537	melanocortin 3 receptor Source MGI Symbol Acc MGI 96929
E06	UPFM087900 7	ENSMUST00000 166855.2	Mchr1	ENSMUSG00 000050164	melanin-concentrating hormone receptor 1 Source MGI Symbol Acc MGI 2180756
E07	UPFM086671 4	ENSMUST00000 026817.10	Nmb	ENSMUSG00 000025723	neuromedin B Source MGI Symbol Acc MGI 1915289
E08	UPFM080591 5	ENSMUST00000 188021.6	Nmbr	ENSMUSG00 000019865	neuromedin B receptor Source MGI Symbol Acc MGI 1100525
E09	UPFM077360 9	ENSMUST00000 031146.2	Nmu	ENSMUSG00 000029236	neuromedin U Source MGI Symbol Acc MGI 1860476
E10	UPFM069353 3	ENSMUST00000 212541.1	Nmur1	ENSMUSG00 000026237	neuromedin U receptor 1 Source MGI Symbol Acc MGI 1341898
E11	UPFM082608 4	ENSMUST00000 031843.6	Npy	ENSMUSG00 000029819	neuropeptide Y Source MGI Symbol Acc MGI 97374
E12	UPFM089859 6	ENSMUST00000 039303.6	Npy1r	ENSMUSG00 000036437	neuropeptide Y receptor Y1 Source MGI Symbol Acc MGI 104963
F01	UPFM075838 6	ENSMUST00000 097592.8	Nr3c1	ENSMUSG00 000024431	nuclear receptor subfamily 3, group C, member 1 Source MGI Symbol Acc MGI 95824
F02	UPFM086215 7	ENSMUST00000 225583.1	Ntrk2	ENSMUSG00 000055254	neurotrophic tyrosine kinase, receptor, type 2 Source MGI Symbol Acc MGI 97384
F03	UPFM066210 0	ENSMUST00000 020040.4	Nts	ENSMUSG00 000019890	neurotensin Source MGI Symbol Acc MGI 1328351
F04	UPFM079696 1	ENSMUST00000 170448.1	Ntsr1	ENSMUSG00 000027568	neurotensin receptor 1 Source MGI Symbol Acc MGI 97386
F05	UPFM090180 8	ENSMUST00000 160339.1	Oprk1	ENSMUSG00 000025905	opioid receptor, kappa 1 Source MGI Symbol Acc MGI 97439
F06	UPFM089847 2	ENSMUST00000 105603.1	Oprm1	ENSMUSG00 000000766	opioid receptor, mu 1 Source MGI Symbol Acc MGI 97441
F07	UPFM083347 3	ENSMUST00000 020990.6	Pomc	ENSMUSG00 000020660	pro-opiomelanocortin-alpha Source MGI Symbol Acc MGI 97742
F08	UPFM096943 9	ENSMUST00000 138813.7	Ppara	ENSMUSG00 000022383	peroxisome proliferator activated receptor alpha Source MGI Symbol Acc MGI 104740
F09	UPFM084296 6	ENSMUST00000 203732.2	Pparg	ENSMUSG00 000000440	peroxisome proliferator activated receptor gamma Source MGI Symbol Acc MGI 97747
F10	UPFM095044 2	ENSMUST00000 031059.13	Ppargc1a	ENSMUSG00 000029167	peroxisome proliferative activated receptor, gamma, coactivator 1 alpha Source MGI Symbol Acc MGI 1342774

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM082152 4	ENSMUST00000051277.3	Prlhr	ENSMUSG0000045052	prolactin releasing hormone receptor Source MGI Symbol Acc MGI 2135956
F12	UPFM096458 5	ENSMUST00000147210.7	Ptpn1	ENSMUSG0000027540	protein tyrosine phosphatase, non-receptor type 1 Source MGI Symbol Acc MGI 97805
G01	UPFM087990 3	ENSMUST00000127381.2	Pyy	ENSMUSG0000017311	peptide YY Source MGI Symbol Acc MGI 99924
G02	UPFM069419 2	ENSMUST00000045374.7	Ramp3	ENSMUSG0000041046	receptor (calcitonin) activity modifying protein 3 Source MGI Symbol Acc MGI 1860292
G03	UPFM097730 9	ENSMUST00000059354.14	Sigmar1	ENSMUSG0000036078	sigma non-opioid intracellular receptor 1 Source MGI Symbol Acc MGI 1195268
G04	UPFM071952 2	ENSMUST00000102632.6	Sort1	ENSMUSG0000068747	sortilin 1 Source MGI Symbol Acc MGI 1338015
G05	UPFM081085 2	ENSMUST00000004480.4	Sst	ENSMUSG0000004366	somatostatin Source MGI Symbol Acc MGI 98326
G06	UPFM093389 3	ENSMUST00000106630.1	Sstr2	ENSMUSG0000047904	somatostatin receptor 2 Source MGI Symbol Acc MGI 98328
G07	UPFM083339 6	ENSMUST00000022304.9	Thrb	ENSMUSG0000021779	thyroid hormone receptor beta Source MGI Symbol Acc MGI 98743
G08	UPFM063847 1	ENSMUST00000025263.14	Tnf	ENSMUSG0000024401	tumor necrosis factor Source MGI Symbol Acc MGI 104798
G09	UPFM070001 6	ENSMUST00000006046.4	Trh	ENSMUSG0000005892	thyrotropin releasing hormone Source MGI Symbol Acc MGI 98823
G10	UPFM074223 2	ENSMUST00000201184.1	Ucn	ENSMUSG0000038676	urocortin Source MGI Symbol Acc MGI 1276123
G11	UPFM095120 9	ENSMUST00000034146.4	Ucp1	ENSMUSG0000031710	uncoupling protein 1 (mitochondrial, proton carrier) Source MGI Symbol Acc MGI 98894
G12	UPFM096803 8	ENSMUST00000137256.1	Zfp91	ENSMUSG0000024695	zinc finger protein 91 Source MGI Symbol Acc MGI 104854
H01	UPFM113294 6	ENSMUST00000163829.1	Actb	ENSMUSG0000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	UPFM113294 7	ENSMUST00000102476.4	B2m	ENSMUSG0000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	UPFM113294 8	ENSMUST00000117757.8	Gapdh	ENSMUSG0000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	UPFM113294 9	ENSMUST00000026613.13	Gusb	ENSMUSG0000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	UPFM113295 0	ENSMUST00000166469.7	Hsp90ab1	ENSMUSG0000023944	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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