

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

Mouse Obesity

Cat. no. 249950 SBMM-017ZR

For study focus gene expression analysis

Shipping and storage

QuantiNova LNA PCR Focus Panels are shipped at ambient temperature. Immediately upon receipt, they should be stored 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 PCR Focus Panels should be used together with the QuantiNova Reverse Transcription Kit for cDNA synthesis and the QuantiNova SYBR® Green PCR Kit (Mastermix) for PCR.

Panel layout (Rotor-Gene): QuantiNova LNA 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 PCR System 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	Atm	Bdnf	Brs3
B	C3	Calca	Calcr	Car1pt	Cck	Cckar	Clps	Cnr1	Cntr	Cpd	Cpe	Crhr1
C	Drd1	Drd2	Gal	Galr1	Gcg	Gcgr	Gh	Ghr	Ghr1	Ghsr	Gip1r	Grp
D	Grpr	Hcr1	Hcrh1	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	Ntsr1	Oprk1	Oprm1	Pomc	Ppara	Pparg	Ppargc1a	Prlhr	Ptgn1
G	Pyy	Ramp3	Sigmar1	Sort1	Sst	Sstr2	Thrb	Tnf	Trh	Ucn	Ucp1	Zfp91
H	Actb	B2m	Gapdh	Gusb	Hsp90ab1	MGDC	QIC	QIC	QIC	PPC	PPC	PPC

Gene table: QuantiNova LNA PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	SBM0857053	ENSMUST00000064775.7	Adcyap1	ENSMUSG0000024256	adenylate cyclase activating polypeptide 1 Source MGI Symbol Acc MGI 105094
A02	SBM0799914	ENSMUST00000172084.7	Adcyap1r1	ENSMUSG0000029778	adenylate cyclase activating polypeptide 1 receptor 1 Source MGI Symbol Acc MGI 108449
A03	SBM0903115	ENSMUST00000023593.5	Adipoq	ENSMUSG0000022878	adiponectin, C1Q and collagen domain containing Source MGI Symbol Acc MGI 106675
A04	SBM1015976	ENSMUST00000112237.1	Adipor1	ENSMUSG0000026457	adiponectin receptor 1 Source MGI Symbol Acc MGI 1919924
A05	SBM0848941	ENSMUST00000187699.6	Adipor2	ENSMUSG0000030168	adiponectin receptor 2 Source MGI Symbol Acc MGI 93830
A06	SBM0748692	ENSMUST00000104934.1	Adra2b	ENSMUSG0000058620	adrenergic receptor, alpha 2b Source MGI Symbol Acc MGI 87935
A07	SBM1062089	ENSMUST00000038949.5	Adrb1	ENSMUSG0000035283	adrenergic receptor, beta 1 Source MGI Symbol Acc MGI 87937
A08	SBM0748293	ENSMUST00000194091.5	Agrp	ENSMUSG0000005705	agouti related neuropeptide Source MGI Symbol Acc MGI 892013
A09	SBM0808432	ENSMUST00000034585.6	Apoa4	ENSMUSG0000032080	apolipoprotein A-IV Source MGI Symbol Acc MGI 88051
A10	SBM0808688	ENSMUST00000132557.1	Atrn	ENSMUSG0000027312	attractin Source MGI Symbol Acc MGI 1341628
A11	SBM0985592	ENSMUST00000111042.2	Bdnf	ENSMUSG0000048482	brain derived neurotrophic factor Source MGI Symbol Acc MGI 88145
A12	SBM0753153	ENSMUST00000033464.3	Brs3	ENSMUSG0000031130	bombesin-like receptor 3 Source MGI Symbol Acc MGI 1100501
B01	SBM0754550	ENSMUST00000024988.14	C3	ENSMUSG0000024164	complement component 3 Source MGI Symbol Acc MGI 88227
B02	SBM0833704	ENSMUST00000206156.1	Calca	ENSMUSG0000030669	calcitonin/calcitonin-related polypeptide, alpha Source MGI Symbol Acc MGI 2151253
B03	SBM0787713	ENSMUST00000170266.2	Calcr	ENSMUSG0000023964	calcitonin receptor Source MGI Symbol Acc MGI 101950
B04	SBM0781756	ENSMUST00000022150.7	Cartpt	ENSMUSG0000021647	CART prepropeptide Source MGI Symbol Acc MGI 1351330
B05	SBM0761359	ENSMUST00000213106.1	Cck	ENSMUSG0000032532	cholecystokinin Source MGI Symbol Acc MGI 88297
B06	SBM0685417	ENSMUST00000200691.3	Cckar	ENSMUSG0000029193	cholecystokinin A receptor Source MGI Symbol Acc MGI 99478
B07	SBM0683878	ENSMUST00000114785.2	Clps	ENSMUSG0000024225	colipase, pancreatic Source MGI Symbol Acc MGI 88421
B08	SBM1037540	ENSMUST00000084736.2	Cnr1	ENSMUSG0000044288	cannabinoid receptor 1 (brain) Source MGI Symbol Acc MGI 104615
B09	SBM0994372	ENSMUST00000145379.1	Cnfr	ENSMUSG0000028444	ciliary neurotrophic factor receptor Source MGI Symbol Acc MGI 99605
B10	SBM0751536	ENSMUST00000151584.1	Cpd	ENSMUSG0000020841	carboxypeptidase D Source MGI Symbol Acc MGI 107265
B11	SBM0957014	ENSMUST00000048967.8	Cpe	ENSMUSG0000037852	carboxypeptidase E Source MGI Symbol Acc MGI 101932
B12	SBM0944430	ENSMUST00000093925.4	Crhr1	ENSMUSG0000018634	corticotropin releasing hormone receptor 1 Source MGI Symbol Acc MGI 88498
C01	SBM1085787	ENSMUST00000221470.1	Drd1	ENSMUSG0000021478	dopamine receptor D1 Source MGI Symbol Acc MGI 99578
C02	SBM0811566	ENSMUST00000075764.7	Drd2	ENSMUSG0000032259	dopamine receptor D2 Source MGI Symbol Acc MGI 94924
C03	SBM0700517	ENSMUST00000025842.7	Gal	ENSMUSG0000024907	galanin Source MGI Symbol Acc MGI 95637
C04	SBM0857513	ENSMUST00000065224.7	Galr1	ENSMUSG0000024553	galanin receptor 1 Source MGI Symbol Acc MGI 1096364
C05	SBM0711962	ENSMUST00000155624.1	Gcg	ENSMUSG0000000394	glucagon Source MGI Symbol Acc MGI 95674
C06	SBM0812666	ENSMUST00000026119.7	Gcgr	ENSMUSG0000025127	glucagon receptor Source MGI Symbol Acc MGI 99572
C07	SBM0739124	ENSMUST00000103071.3	Gh	ENSMUSG0000020713	growth hormone Source MGI Symbol Acc MGI 95707
C08	SBM0700841	ENSMUST00000110697.8	Ghr	ENSMUSG0000055737	growth hormone receptor Source MGI Symbol Acc MGI 95708
C09	SBM0814303	ENSMUST00000203363.2	Ghrl	ENSMUSG0000064177	ghrelin Source MGI Symbol Acc MGI 1930008
C10	SBM1218501	ENSMUST00000057186.1	Ghsr	ENSMUSG0000051136	growth hormone secretagogue receptor Source MGI Symbol Acc MGI 2441906
		ENSMUST000000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM0716398	114574.2	Glp1r	000024027	glucagon-like peptide 1 receptor Source MGI Symbol Acc MGI 99571
C12	SBM0988544	ENSMUST00000025395.9	Grp	ENSMUSG0000024517	gastrin releasing peptide Source MGI Symbol Acc MGI 95833
D01	SBM0893313	ENSMUST00000033730.2	Grpr	ENSMUSG0000031364	gastrin releasing peptide receptor Source MGI Symbol Acc MGI 95836
D02	SBM0790070	ENSMUST00000055083.3	Hcrt	ENSMUSG0000045471	hypocretin Source MGI Symbol Acc MGI 1202306
D03	SBM1015634	ENSMUST00000164887.2	Hcrr1	ENSMUSG0000028778	hypocretin (orexin) receptor 1 Source MGI Symbol Acc MGI 2385650
D04	SBM0938648	ENSMUST00000161650.2	Hrh1	ENSMUSG0000053004	histamine receptor H1 Source MGI Symbol Acc MGI 107619
D05	SBM0688579	ENSMUST00000156697.7	Htr2c	ENSMUSG0000041380	5-hydroxytryptamine (serotonin) receptor 2C Source MGI Symbol Acc MGI 96281
D06	SBM1004427	ENSMUST00000041993.2	Iapp	ENSMUSG0000041681	islet amyloid polypeptide Source MGI Symbol Acc MGI 96382
D07	SBM1007460	ENSMUST00000028882.1	Il1a	ENSMUSG0000027399	interleukin 1 alpha Source MGI Symbol Acc MGI 96542
D08	SBM0738485	ENSMUST00000028881.13	Il1b	ENSMUSG0000027398	interleukin 1 beta Source MGI Symbol Acc MGI 96543
D09	SBM1086348	ENSMUST00000027241.10	Il1r1	ENSMUSG0000026072	interleukin 1 receptor, type I Source MGI Symbol Acc MGI 96545
D10	SBM0742623	ENSMUST00000026845.11	Il6	ENSMUSG0000025746	interleukin 6 Source MGI Symbol Acc MGI 96559
D11	SBM0834938	ENSMUST00000197679.4	Il6ra	ENSMUSG0000027947	interleukin 6 receptor, alpha Source MGI Symbol Acc MGI 105304
D12	SBM0872440	ENSMUST00000039652.5	Ins1	ENSMUSG0000035804	insulin I Source MGI Symbol Acc MGI 96572
E01	SBM0867142	ENSMUST00000125933.1	Ins2	ENSMUSG0000000215	insulin II Source MGI Symbol Acc MGI 96573
E02	SBM1013137	ENSMUST00000207100.1	Insr	ENSMUSG0000005534	insulin receptor Source MGI Symbol Acc MGI 96575
E03	SBM0718370	ENSMUST00000169505.1	Lep	ENSMUSG0000059201	leptin Source MGI Symbol Acc MGI 104663
E04	SBM1058375	ENSMUST00000128948.7	Lepr	ENSMUSG0000057722	leptin receptor Source MGI Symbol Acc MGI 104993
E05	SBM0740498	ENSMUST00000038532.1	Mc3r	ENSMUSG0000038537	melanocortin 3 receptor Source MGI Symbol Acc MGI 96929
E06	SBM0937522	ENSMUST00000166855.2	Mchr1	ENSMUSG0000050164	melanin-concentrating hormone receptor 1 Source MGI Symbol Acc MGI 2180756
E07	SBM0737644	ENSMUST00000026817.10	Nmb	ENSMUSG0000025723	neuromedin B Source MGI Symbol Acc MGI 1915289
E08	SBM0892354	ENSMUST00000190114.1	Nmbr	ENSMUSG0000019865	neuromedin B receptor Source MGI Symbol Acc MGI 1100525
E09	SBM1023072	ENSMUST00000031146.2	Nmu	ENSMUSG0000029236	neuromedin U Source MGI Symbol Acc MGI 1860476
E10	SBM0855612	ENSMUST00000027440.5	Nmur1	ENSMUSG0000026237	neuromedin U receptor 1 Source MGI Symbol Acc MGI 1341898
E11	SBM0865432	ENSMUST00000031843.6	Npy	ENSMUSG0000029819	neuropeptide Y Source MGI Symbol Acc MGI 97374
E12	SBM0855010	ENSMUST00000039303.6	Npy1r	ENSMUSG0000036437	neuropeptide Y receptor Y1 Source MGI Symbol Acc MGI 104963
F01	SBM0963014	ENSMUST00000115571.7	Nr3c1	ENSMUSG0000024431	nuclear receptor subfamily 3, group C, member 1 Source MGI Symbol Acc MGI 95824
F02	SBM1050719	ENSMUST00000224402.1	Ntrk2	ENSMUSG0000055254	neurotrophic tyrosine kinase, receptor, type 2 Source MGI Symbol Acc MGI 97384
F03	SBM0836270	ENSMUST00000020040.4	Nts	ENSMUSG0000019890	neurotensin Source MGI Symbol Acc MGI 1328351
F04	SBM0936312	ENSMUST00000170448.1	Ntsr1	ENSMUSG0000027568	neurotensin receptor 1 Source MGI Symbol Acc MGI 97386
F05	SBM0944687	ENSMUST00000160777.7	Oprk1	ENSMUSG0000025905	opioid receptor, kappa 1 Source MGI Symbol Acc MGI 97439
F06	SBM1076575	ENSMUST00000105607.7	Oprm1	ENSMUSG0000000766	opioid receptor, mu 1 Source MGI Symbol Acc MGI 97441
F07	SBM0737329	ENSMUST00000218089.1	Pomc	ENSMUSG0000020660	pro-opiomelanocortin-alpha Source MGI Symbol Acc MGI 97742
F08	SBM0952484	ENSMUST00000138813.7	Ppara	ENSMUSG0000022383	peroxisome proliferator activated receptor alpha Source MGI Symbol Acc MGI 104740
F09	SBM1015614	ENSMUST00000205213.2	Pparg	ENSMUSG0000000440	peroxisome proliferator activated receptor gamma Source MGI Symbol Acc MGI 97747
F10	SBM0984439	ENSMUST00000132734.7	Ppargc1a	ENSMUSG0000029167	peroxisome proliferative activated receptor, gamma, coactivator 1 alpha Source MGI Symbol Acc MGI 1342774

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM0915977	ENSMUST00000051277.3	Prhr	ENSMUSG0000045052	prolactin releasing hormone receptor Source MGI Symbol Acc MGI 2135956
F12	SBM0939941	ENSMUST00000142717.1	Ptpn1	ENSMUSG0000027540	protein tyrosine phosphatase, non-receptor type 1 Source MGI Symbol Acc MGI 97805
G01	SBM0747417	ENSMUST00000177149.1	Pyy	ENSMUSG0000017311	peptide YY Source MGI Symbol Acc MGI 99924
G02	SBM0827638	ENSMUST00000045374.7	Ramp3	ENSMUSG0000041046	receptor (calcitonin) activity modifying protein 3 Source MGI Symbol Acc MGI 1860292
G03	SBM0953099	ENSMUST00000133590.1	Sigmar1	ENSMUSG0000036078	sigma non-opioid intracellular receptor 1 Source MGI Symbol Acc MGI 1195268
G04	SBM0896687	ENSMUST00000135636.5	Sort1	ENSMUSG0000068747	sortilin 1 Source MGI Symbol Acc MGI 1338015
G05	SBM0900431	ENSMUST00000004480.4	Sst	ENSMUSG0000004366	somatostatin Source MGI Symbol Acc MGI 98326
G06	SBM0791847	ENSMUST00000146390.2	Sstr2	ENSMUSG0000047904	somatostatin receptor 2 Source MGI Symbol Acc MGI 98328
G07	SBM0813923	ENSMUST00000022304.9	Thrb	ENSMUSG0000021779	thyroid hormone receptor beta Source MGI Symbol Acc MGI 98743
G08	SBM0788439	ENSMUST00000025263.14	Tnf	ENSMUSG0000024401	tumor necrosis factor Source MGI Symbol Acc MGI 104798
G09	SBM1013430	ENSMUST00000006046.4	Trh	ENSMUSG0000005892	thyrotropin releasing hormone Source MGI Symbol Acc MGI 98823
G10	SBM0843250	ENSMUST00000043475.6	Ucn	ENSMUSG0000038676	urocortin Source MGI Symbol Acc MGI 1276123
G11	SBM1037476	ENSMUST00000034146.4	Ucp1	ENSMUSG0000031710	uncoupling protein 1 (mitochondrial, proton carrier) Source MGI Symbol Acc MGI 98894
G12	SBM0886574	ENSMUST00000038627.8	Zfp91	ENSMUSG0000024695	zinc finger protein 91 Source MGI Symbol Acc MGI 104854
H01	SBM1220560	ENSMUST00000100497.10	Actb	ENSMUSG0000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	SBM0675336	ENSMUST00000102476.4	B2m	ENSMUSG0000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	SBM1220562	ENSMUST00000117757.8	Gapdh	ENSMUSG0000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	SBM1220563	ENSMUST00000026613.13	Gusb	ENSMUSG0000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	SBM1220564	ENSMUST00000166469.7	Hsp90ab1	ENSMUSG0000023944	heat shock protein 90 alpha (cytosolic), class B member 1 Source MGI Symbol Acc MGI 96247
H06	SBM1218554	Sybr_MGDC	MGDC	Sybr_MGDC	Mouse Genomic DNA Contamination
H07	SBH1218551	Sybr_QIC	QIC	Sybr_QIC	QuantiNova Internal Control
H08	SBH1218551	Sybr_QIC	QIC	Sybr_QIC	QuantiNova Internal Control
H09	SBH1218551	Sybr_QIC	QIC	Sybr_QIC	QuantiNova Internal Control
H10	SBH1218550	Sybr_PPC	PPC	Sybr_PPC	Positive PCR Control
H11	SBH1218550	Sybr_PPC	PPC	Sybr_PPC	Positive PCR Control
H12	SBH1218550	Sybr_PPC	PPC	Sybr_PPC	Positive PCR Control

Related products

Product	Contents	Cat. no.
QuantiNova LNA PCR QC Panel	These panels are designed to assess the quality of RNA samples before characterization using QuantiNova LNA PCR Focus Panels; available in 96-well, 384-well, and Rotor-Disc 100 formats	249940
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 SYBR Green RT-PCR Kit (100)*	For 100 x 20 µl reactions: 1 ml QuantiNova SYBR Green RT-PCR Master Mix, 20 µl QuantiNova SYBR Green RT Mix, 20 µl Internal Control RNA, 500 µl Yellow Template Dilution Buffer, 250 µl ROX Reference Dye, 1.9 µl RNase-Free Water	208152
QuantiNova SYBR Green PCR Kit (100)*	For 100 x 20 µl reactions: 1 ml 2x QuantiNova SYBR Green PCR Master Mix, 500 µl QuantiNova Yellow Template Dilution Buffer, 250 µl QN ROX Reference Dye, 1.9 ml Water	208052

*Larger kit sizes available.

The QuantiNova LNA 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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