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

Mouse Insulin Resistance

Cat. no. 249955 UPMM-156ZR

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	Acaca	Acacb	Acsl1	Acsl4	Adipoq	Adipor1	Adipor2	Akt3	Alox5	Apoe	Casp1	Ccl12
B	Ccr4	Ccr5	Ccr6	Cd36	Cd3e	Cebpa	Chuk	Cnbp	Crlf2	Cs	Cxcr3	Cxcr4
C	Adgre1	Fabp4	Fasn	Gys1	Hk2	Ifng	Igf1	Igf1r	Ikbkb	Il18r1	Il1b	Il1r1
D	Il23r	Il6	Insr	Irs1	Irs2	Jak2	Lep	Lepr	Lipe	Lpl	Lta4h	Map2k1
E	Mapk3	Mapk9	Mtor	Nampt	Nfkbia	Nlrp3	Olr1	Pck1	Pde3b	Pdk2	Pdx1	Pik3ca
F	Pik3r1	Ppara	Pparg	Ppargc1a	Ptpn1	Pycard	Rbp4	Rela	Retn	Rps6kb1	Scd1	Serpine1
G	Slc27a1	Slc2a4	Socs3	Srebf1	Srebf2	Stat3	Tlr4	Tnf	Tnfrsf1a	Tnfrsf1b	Ucp1	Vldlr
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	UPFM0948549	ENSMUST00000130012.8	Acaca	ENSMUSG00000020532	acetyl-Coenzyme A carboxylase alpha Source MGI Symbol Acc MGI 108451
A02	UPFM0778036	ENSMUST00000143276.1	Acacb	ENSMUSG00000042010	acetyl-Coenzyme A carboxylase beta Source MGI Symbol Acc MGI 2140940
A03	UPFM0927572	ENSMUST00000152423.1	Acsl1	ENSMUSG00000018796	acyl-CoA synthetase long-chain family member 1 Source MGI Symbol Acc MGI 102797
A04	UPFM0928986	ENSMUST00000112904.7	Acsl4	ENSMUSG00000031278	acyl-CoA synthetase long-chain family member 4 Source MGI Symbol Acc MGI 1354713
A05	UPFM0967569	ENSMUST00000023593.5	Adipoq	ENSMUSG00000022878	adiponectin, C1Q and collagen domain containing Source MGI Symbol Acc MGI 106675
A06	UPFM0758976	ENSMUST00000148822.1	Adipor1	ENSMUSG00000026457	adiponectin receptor 1 Source MGI Symbol Acc MGI 1919924
A07	UPFM0899657	ENSMUST00000169744.7	Adipor2	ENSMUSG00000030168	adiponectin receptor 2 Source MGI Symbol Acc MGI 93830
A08	UPFM0852369	ENSMUST00000111160.8	Akt3	ENSMUSG00000019699	thymoma viral proto-oncogene 3 Source MGI Symbol Acc MGI 1345147
A09	UPFM0677095	ENSMUST00000164547.7	Alox5	ENSMUSG00000025701	arachidonate 5-lipoxygenase Source MGI Symbol Acc MGI 87999
A10	UPFM0926421	ENSMUST00000172808.1	Apoe	ENSMUSG00000002985	apolipoprotein E Source MGI Symbol Acc MGI 88057
A11	UPFM0953748	ENSMUST00000027015.5	Casp1	ENSMUSG00000025888	caspase 1 Source MGI Symbol Acc MGI 96544
A12	UPFM0781898	ENSMUST00000124916.1	Ccl12	ENSMUSG00000035352	chemokine (C-C motif) ligand 12 Source MGI Symbol Acc MGI 108224
B01	UPFM0921498	ENSMUST00000054414.4	Ccr4	ENSMUSG00000047898	chemokine (C-C motif) receptor 4 Source MGI Symbol Acc MGI 107824
B02	UPFM0789224	ENSMUST00000111442.2	Ccr5	ENSMUSG00000079227	chemokine (C-C motif) receptor 5 Source MGI Symbol Acc MGI 107182
B03	UPFM0896840	ENSMUST00000231340.1	Ccr6	ENSMUSG00000040899	chemokine (C-C motif) receptor 6 Source MGI Symbol Acc MGI 1333797
B04	UPFM0835508	ENSMUST00000170051.7	Cd36	ENSMUSG00000002944	CD36 molecule Source MGI Symbol Acc MGI 107899
B05	UPFM0820794	ENSMUST00000214582.1	Cd3e	ENSMUSG00000032093	CD3 antigen, epsilon polypeptide Source MGI Symbol Acc MGI 88332
B06	UPFM0992607	ENSMUST00000042985.10	Cebpa	ENSMUSG00000034957	CCAAT/enhancer binding protein (C/EBP), alpha Source MGI Symbol Acc MGI 99480
B07	UPFM1007195	ENSMUST00000146861.1	Chuk	ENSMUSG00000025199	conserved helix-loop-helix ubiquitous kinase Source MGI Symbol Acc MGI 99484
B08	UPFM0709430	ENSMUST00000113619.7	Cnbp	ENSMUSG00000030057	cellular nucleic acid binding protein Source MGI Symbol Acc MGI 88431
B09	UPFM0675883	ENSMUST00000200284.4	Crlf2	ENSMUSG00000033467	cytokine receptor-like factor 2 Source MGI Symbol Acc MGI 1889506
B10	UPFM0674305	ENSMUST00000005826.8	Cs	ENSMUSG00000005683	citrate synthase Source MGI Symbol Acc MGI 88529
B11	UPFM0744159	ENSMUST00000056614.6	Cxcr3	ENSMUSG00000050232	chemokine (C-X-C motif) receptor 3 Source MGI Symbol Acc MGI 1277207
B12	UPFM0774575	ENSMUST00000052172.6	Cxcr4	ENSMUSG00000045382	chemokine (C-X-C motif) receptor 4 Source MGI Symbol Acc MGI 109563
C01	UPFM0638651	ENSMUST00000004850.7	Adgre1	ENSMUSG00000004730	adhesion G protein-coupled receptor E1 Source MGI Symbol Acc MGI 106912
C02	UPFM0754389	ENSMUST00000029041.5	Fabp4	ENSMUSG00000062515	fatty acid binding protein 4, adipocyte Source MGI Symbol Acc MGI 88038
C03	UPFM0812652	ENSMUST00000055655.8	Fasn	ENSMUSG00000025153	fatty acid synthase Source MGI Symbol Acc MGI 95485
C04	UPFM0655174	ENSMUST00000003964.16	Gys1	ENSMUSG00000003865	glycogen synthase 1, muscle Source MGI Symbol Acc MGI 101805
C05	UPFM0742567	ENSMUST00000000642.10	Hk2	ENSMUSG00000000628	hexokinase 2 Source MGI Symbol Acc MGI 1315197
C06	UPFM1172950	ENSMUST00000068592.4	Ifng	ENSMUSG00000055170	interferon gamma Source MGI Symbol Acc MGI 107656
C07	UPFM0929418	ENSMUST00000121161.7	Igf1	ENSMUSG00000020053	insulin-like growth factor 1 Source MGI Symbol Acc MGI 96432
C08	UPFM0653299	ENSMUST00000208871.1	Igf1r	ENSMUSG00000005533	insulin-like growth factor I receptor Source MGI Symbol Acc MGI 96433
C09	UPFM0861541	ENSMUST00000146212.7	Ikbkb	ENSMUSG00000031537	inhibitor of kappaB kinase beta Source MGI Symbol Acc MGI 1338071
C10	UPFM0893501	ENSMUST00000193793.5	Il18r1	ENSMUSG00000026070	interleukin 18 receptor 1 Source MGI Symbol Acc MGI 105383
	UPFM067128	ENSMUST00000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	1	155994.1	Il1b	000027398	interleukin 1 beta Source MGI Symbol Acc MGI 96543
C12	UPFM0703199	ENSMUST00000114795.2	Il1r1	ENSMUSG00000026072	interleukin 1 receptor, type I Source MGI Symbol Acc MGI 96545
D01	UPFM0623382	ENSMUST00000118364.1	Il23r	ENSMUSG00000049093	interleukin 23 receptor Source MGI Symbol Acc MGI 2181693
D02	UPFM0729099	ENSMUST00000195978.4	Il6	ENSMUSG00000025746	interleukin 6 Source MGI Symbol Acc MGI 96559
D03	UPFM0625024	ENSMUST00000207100.1	Insr	ENSMUSG00000005534	insulin receptor Source MGI Symbol Acc MGI 96575
D04	UPFM0681403	ENSMUST00000069799.2	Irs1	ENSMUSG00000055980	insulin receptor substrate 1 Source MGI Symbol Acc MGI 99454
D05	UPFM0781146	ENSMUST00000040514.7	Irs2	ENSMUSG00000038894	insulin receptor substrate 2 Source MGI Symbol Acc MGI 109334
D06	UPFM0748313	ENSMUST00000065796.9	Jak2	ENSMUSG00000024789	Janus kinase 2 Source MGI Symbol Acc MGI 96629
D07	UPFM0686147	ENSMUST00000169505.1	Lep	ENSMUSG00000059201	leptin Source MGI Symbol Acc MGI 104663
D08	UPFM0975374	ENSMUST00000128948.7	Lepr	ENSMUSG00000057722	leptin receptor Source MGI Symbol Acc MGI 104993
D09	UPFM0991085	ENSMUST00000206861.1	Lipe	ENSMUSG00000003123	lipase, hormone sensitive Source MGI Symbol Acc MGI 96790
D10	UPFM0826787	ENSMUST00000169749.1	Lpl	ENSMUSG00000015568	lipoprotein lipase Source MGI Symbol Acc MGI 96820
D11	UPFM0628436	ENSMUST00000216146.1	Lta4h	ENSMUSG00000015889	leukotriene A4 hydrolase Source MGI Symbol Acc MGI 96836
D12	UPFM0665925	ENSMUST00000005066.8	Map2k1	ENSMUSG00000004936	mitogen-activated protein kinase kinase 1 Source MGI Symbol Acc MGI 1346866
E01	UPFM0940299	ENSMUST00000205657.1	Mapk3	ENSMUSG00000063065	mitogen-activated protein kinase 3 Source MGI Symbol Acc MGI 1346859
E02	UPFM0947828	ENSMUST00000144857.7	Mapk9	ENSMUSG00000020366	mitogen-activated protein kinase 9 Source MGI Symbol Acc MGI 1346862
E03	UPFM0621023	ENSMUST00000057580.7	Mtor	ENSMUSG00000028991	mechanistic target of rapamycin kinase Source MGI Symbol Acc MGI 1928394
E04	UPFM0736922	ENSMUST00000220200.1	Nampt	ENSMUSG00000020572	nicotinamide phosphoribosyltransferase Source MGI Symbol Acc MGI 1929865
E05	UPFM0721745	ENSMUST00000021413.8	Nfkbia	ENSMUSG00000021025	nuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor, alpha Source MGI Symbol Acc MGI 104741
E06	UPFM0771697	ENSMUST00000149126.1	Nlrp3	ENSMUSG00000032691	NLR family, pyrin domain containing 3 Source MGI Symbol Acc MGI 2653833
E07	UPFM0960868	ENSMUST00000183258.7	Olr1	ENSMUSG00000030162	oxidized low density lipoprotein (lectin-like) receptor 1 Source MGI Symbol Acc MGI 1261434
E08	UPFM0901466	ENSMUST00000150629.7	Pck1	ENSMUSG00000027513	phosphoenolpyruvate carboxykinase 1, cytosolic Source MGI Symbol Acc MGI 97501
E09	UPFM0851780	ENSMUST00000032909.8	Pde3b	ENSMUSG00000030671	phosphodiesterase 3B, cGMP-inhibited Source MGI Symbol Acc MGI 1333863
E10	UPFM0816968	ENSMUST00000126730.1	Pdk2	ENSMUSG00000038967	pyruvate dehydrogenase kinase, isoenzyme 2 Source MGI Symbol Acc MGI 1343087
E11	UPFM0780109	ENSMUST00000085591.6	Pdx1	ENSMUSG00000029644	pancreatic and duodenal homeobox 1 Source MGI Symbol Acc MGI 102851
E12	UPFM0708438	ENSMUST00000108243.7	Pik3ca	ENSMUSG00000027665	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha Source MGI Symbol Acc MGI 1206581
F01	UPFM0735865	ENSMUST00000185795.1	Pik3r1	ENSMUSG00000041417	phosphoinositide-3-kinase regulatory subunit 1 Source MGI Symbol Acc MGI 97583
F02	UPFM0969439	ENSMUST00000138813.7	Ppara	ENSMUSG00000022383	peroxisome proliferator activated receptor alpha Source MGI Symbol Acc MGI 104740
F03	UPFM0842966	ENSMUST00000203732.2	Pparg	ENSMUSG00000000440	peroxisome proliferator activated receptor gamma Source MGI Symbol Acc MGI 97747
F04	UPFM0950442	ENSMUST00000031059.13	Ppargc1a	ENSMUSG00000029167	peroxisome proliferative activated receptor, gamma, coactivator 1 alpha Source MGI Symbol Acc MGI 1342774
F05	UPFM0964585	ENSMUST00000147210.7	Ptpn1	ENSMUSG00000027540	protein tyrosine phosphatase, non-receptor type 1 Source MGI Symbol Acc MGI 97805
F06	UPFM0842374	ENSMUST00000033056.4	Pycard	ENSMUSG00000030793	PYD and CARD domain containing Source MGI Symbol Acc MGI 1931465
F07	UPFM0988791	ENSMUST00000112335.3	Rbp4	ENSMUSG00000024990	retinol binding protein 4, plasma Source MGI Symbol Acc MGI 97879
F08	UPFM0819155	ENSMUST00000025867.5	Rela	ENSMUSG00000024927	v-rel reticuloendotheliosis viral oncogene homolog A (avian) Source MGI Symbol Acc MGI 103290
F09	UPFM0803735	ENSMUST00000012849.14	Retn	ENSMUSG00000012705	resistin Source MGI Symbol Acc MGI 1888506
F10	UPFM0633380	ENSMUST00000020824.14	Rps6kb1	ENSMUSG00000020516	ribosomal protein S6 kinase, polypeptide 1 Source MGI Symbol Acc MGI 1270849

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM0642890	ENSMUST00000236824.1	Scd1	ENSMUSG00000037071	stearoyl-Coenzyme A desaturase 1 Source MGI Symbol Acc MGI 98239
F12	UPFM0707886	ENSMUST00000041388.10	Serpine1	ENSMUSG00000037411	serine (or cysteine) peptidase inhibitor, clade E, member 1 Source MGI Symbol Acc MGI 97608
G01	UPFM0844603	ENSMUST00000212211.1	Slc27a1	ENSMUSG00000031808	solute carrier family 27 (fatty acid transporter), member 1 Source MGI Symbol Acc MGI 1347098
G02	UPFM0707423	ENSMUST00000018710.12	Slc2a4	ENSMUSG00000018566	solute carrier family 2 (facilitated glucose transporter), member 4 Source MGI Symbol Acc MGI 95758
G03	UPFM0694139	ENSMUST00000054002.3	Socs3	ENSMUSG00000053113	suppressor of cytokine signaling 3 Source MGI Symbol Acc MGI 1201791
G04	UPFM0631103	ENSMUST00000149238.1	Srebf1	ENSMUSG00000020538	sterol regulatory element binding transcription factor 1 Source MGI Symbol Acc MGI 107606
G05	UPFM0728924	ENSMUST00000230955.1	Srebf2	ENSMUSG00000022463	sterol regulatory element binding factor 2 Source MGI Symbol Acc MGI 107585
G06	UPFM0984845	ENSMUST00000092671.11	Stat3	ENSMUSG00000004040	signal transducer and activator of transcription 3 Source MGI Symbol Acc MGI 103038
G07	UPFM0750345	ENSMUST00000107365.2	Tlr4	ENSMUSG00000039005	toll-like receptor 4 Source MGI Symbol Acc MGI 96824
G08	UPFM0638471	ENSMUST00000025263.14	Tnf	ENSMUSG00000024401	tumor necrosis factor Source MGI Symbol Acc MGI 104798
G09	UPFM0704846	ENSMUST00000144524.1	Tnfrsf1a	ENSMUSG00000030341	tumor necrosis factor receptor superfamily, member 1a Source MGI Symbol Acc MGI 1314884
G10	UPFM0631986	ENSMUST00000143055.1	Tnfrsf1b	ENSMUSG00000028599	tumor necrosis factor receptor superfamily, member 1b Source MGI Symbol Acc MGI 1314883
G11	UPFM0951209	ENSMUST00000034146.4	Ucp1	ENSMUSG00000031710	uncoupling protein 1 (mitochondrial, proton carrier) Source MGI Symbol Acc MGI 98894
G12	UPFM0884866	ENSMUST00000164746.7	Vldlr	ENSMUSG00000024924	very low density lipoprotein receptor Source MGI Symbol Acc MGI 98935
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 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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