

QuantiNova® LNA® Probe PCR Focus Panels (96-Well Format and 384-Well [4 x 96] Format)

Mouse JAK / STAT Signaling Pathway

Cat. no. 249955 UPMM-039ZA

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 (96-well): QuantiNova LNA Probe PCR Focus Panel

For the 384-well (4 × 96) PCR panels, genes are present in a staggered format. 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	A2m	Akt1	Bcl2l1	Ccnd1	Cdkn1a	Cebpb	Cebpd	Crk	Crp	Csf1r	Cxcl9	Egfr
B	Epor	F2	Fas	Fcer2a	Fcgr1	Gata3	Gbp2b	Ghr	Ifnar1	Ifng	Ifngr1	Il10ra
C	Il10rb	Il20	Il2ra	Il2rg	Il4	Il4ra	Il6st	Insr	Irf1	Irf9	Isg15	Jak1
D	Jak2	Jak3	Jun	Junb	Lrg1	Mcl1	Mpl	Myc	Nfkb1	Nos2	Nr3c1	Oas1a
E	Osm	Pdgfra	Pias1	Pias2	Prl	Prlr	Ptpn1	Ptpn11	Ptpnc	Spi1	Sh2b1	Sh2b2
F	Smad1	Smad2	Smad3	Smad4	Smad5	Socs1	Socs2	Socs3	Socs4	Socs5	Sp1	Src
G	Statm	Stat1	Stat2	Stat3	Stat4	Stat5a	Stat5b	Stat6	Statb1	Tyk2	Usf1	Yy1
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	UPFM0937667	ENSMUST00000032203.8	A2m	ENSMUSG0000030111	alpha-2-macroglobulin Source MGI Symbol Acc MGI 2449119
A02	UPFM0827860	ENSMUST00000139388.2	Akt1	ENSMUSG0000001729	thymoma viral proto-oncogene 1 Source MGI Symbol Acc MGI 87986
A03	UPFM0663411	ENSMUST00000156688.1	Bcl2l1	ENSMUSG0000007659	BCL2-like 1 Source MGI Symbol Acc MGI 88139
A04	UPFM0933463	ENSMUST00000208193.1	Ccnd1	ENSMUSG0000070348	cyclin D1 Source MGI Symbol Acc MGI 88313
A05	UPFM0867791	ENSMUST00000122348.2	Cdkn1a	ENSMUSG0000023067	cyclin-dependent kinase inhibitor 1A (P21) Source MGI Symbol Acc MGI 104556
A06	UPFM1172940	ENSMUST00000070642.3	Cebpb	ENSMUSG0000056501	CCAAT/enhancer binding protein (C/EBP), beta Source MGI Symbol Acc MGI 88373
A07	UPFM0932215	ENSMUST00000210772.1	Cebpd	ENSMUSG0000071637	CCAAT/enhancer binding protein (C/EBP), delta Source MGI Symbol Acc MGI 103573
A08	UPFM0696851	ENSMUST00000147718.1	Crk	ENSMUSG0000017776	v-crk avian sarcoma virus CT10 oncogene homolog Source MGI Symbol Acc MGI 88508
A09	UPFM0866773	ENSMUST00000038495.4	Crp	ENSMUSG0000037942	C-reactive protein, pentraxin-related Source MGI Symbol Acc MGI 88512
A10	UPFM0708378	ENSMUST00000025523.12	Csf1r	ENSMUSG0000024621	colony stimulating factor 1 receptor Source MGI Symbol Acc MGI 1339758
A11	UPFM0940889	ENSMUST00000202404.1	Cxcl9	ENSMUSG0000029417	chemokine (C-X-C motif) ligand 9 Source MGI Symbol Acc MGI 1352449
A12	UPFM0808781	ENSMUST00000125984.1	Egfr	ENSMUSG0000020122	epidermal growth factor receptor Source MGI Symbol Acc MGI 95294
B01	UPFM0824747	ENSMUST00000213181.1	Epor	ENSMUSG0000006235	erythropoietin receptor Source MGI Symbol Acc MGI 95408
B02	UPFM1012132	ENSMUST00000028681.14	F2	ENSMUSG00000027249	coagulation factor II Source MGI Symbol Acc MGI 88380
B03	UPFM0995787	ENSMUST00000235709.1	Fas	ENSMUSG0000024778	Fas (TNF receptor superfamily member 6) Source MGI Symbol Acc MGI 95484
B04	UPFM0981534	ENSMUST00000208492.1	Fcgr2a	ENSMUSG0000005540	Fc receptor, IgE, low affinity II, alpha polypeptide Source MGI Symbol Acc MGI 95497
B05	UPFM0800753	ENSMUST00000200420.1	Fcgr1	ENSMUSG0000015947	Fc receptor, IgG, high affinity I Source MGI Symbol Acc MGI 95498
B06	UPFM0703910	ENSMUST00000151456.1	Gata3	ENSMUSG0000015619	GATA binding protein 3 Source MGI Symbol Acc MGI 95663
B07	UPFM1005463	ENSMUST00000029936.4	Gbp2b	ENSMUSG0000040264	guanylate binding protein 2b Source MGI Symbol Acc MGI 95666
B08	UPFM0791870	ENSMUST00000161770.1	Ghr	ENSMUSG0000055737	growth hormone receptor Source MGI Symbol Acc MGI 95708
B09	UPFM0703041	ENSMUST00000123196.8	Ifnar1	ENSMUSG0000022967	interferon (alpha and beta) receptor 1 Source MGI Symbol Acc MGI 107658
B10	UPFM1172950	ENSMUST00000068592.4	Ifng	ENSMUSG0000055170	interferon gamma Source MGI Symbol Acc MGI 107656
B11	UPFM0913455	ENSMUST00000171772.1	Ifngr1	ENSMUSG0000020009	interferon gamma receptor 1 Source MGI Symbol Acc MGI 107655
B12	UPFM0667007	ENSMUST00000176222.1	Il10ra	ENSMUSG0000032089	interleukin 10 receptor, alpha Source MGI Symbol Acc MGI 96538
C01	UPFM0655817	ENSMUST00000152729.7	Il10rb	ENSMUSG0000022969	interleukin 10 receptor, beta Source MGI Symbol Acc MGI 109380
C02	UPFM0931946	ENSMUST00000188581.1	Il20	ENSMUSG0000026416	interleukin 20 Source MGI Symbol Acc MGI 1890473
C03	UPFM0922346	ENSMUST00000028111.5	Il2ra	ENSMUSG0000026770	interleukin 2 receptor, alpha chain Source MGI Symbol Acc MGI 96549
C04	UPFM0635047	ENSMUST00000127538.1	Il2rg	ENSMUSG0000031304	interleukin 2 receptor, gamma chain Source MGI Symbol Acc MGI 96551
C05	UPFM0959251	ENSMUST00000150568.7	Il4	ENSMUSG0000000869	interleukin 4 Source MGI Symbol Acc MGI 96556
C06	UPFM0955611	ENSMUST00000206217.1	Il4ra	ENSMUSG0000030748	interleukin 4 receptor, alpha Source MGI Symbol Acc MGI 105367
C07	UPFM1002261	ENSMUST00000184445.7	Il6st	ENSMUSG0000021756	interleukin 6 signal transducer Source MGI Symbol Acc MGI 96560
C08	UPFM0625024	ENSMUST00000207100.1	Insr	ENSMUSG0000005534	insulin receptor Source MGI Symbol Acc MGI 96575
C09	UPFM0624252	ENSMUST00000142221.7	Irf1	ENSMUSG0000018899	interferon regulatory factor 1 Source MGI Symbol Acc MGI 96590
C10	UPFM0709454	ENSMUST00000226275.1	Irf9	ENSMUSG0000002325	interferon regulatory factor 9 Source MGI Symbol Acc MGI 107587
	UPFM079289	ENSMUST00000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	6	085425.4	lsg15	000035692	ISG15 ubiquitin-like modifier Source MGI Symbol Acc MGI 1855694
C12	UPFM073443 4	ENSMUST00000 155328.7	Jak1	ENSMUSG00 000028530	Janus kinase 1 Source MGI Symbol Acc MGI 96628
D01	UPFM074831 3	ENSMUST00000 065796.9	Jak2	ENSMUSG00 000024789	Janus kinase 2 Source MGI Symbol Acc MGI 96629
D02	UPFM097804 2	ENSMUST00000 110012.1	Jak3	ENSMUSG00 000031805	Janus kinase 3 Source MGI Symbol Acc MGI 99928
D03	UPFM097521 6	ENSMUST00000 107094.1	Jun	ENSMUSG00 000052684	jun proto-oncogene Source MGI Symbol Acc MGI 96646
D04	UPFM090452 1	ENSMUST00000 064922.6	Junb	ENSMUSG00 000052837	jun B proto-oncogene Source MGI Symbol Acc MGI 96647
D05	UPFM072831 8	ENSMUST00000 041357.8	Lrg1	ENSMUSG00 000037095	leucine-rich alpha-2-glycoprotein 1 Source MGI Symbol Acc MGI 1924155
D06	UPFM071261 7	ENSMUST00000 178686.1	Mc1l	ENSMUSG00 000038612	myeloid cell leukemia sequence 1 Source MGI Symbol Acc MGI 101769
D07	UPFM077315 5	ENSMUST00000 102671.9	Mpl	ENSMUSG00 000006389	myeloproliferative leukemia virus oncogene Source MGI Symbol Acc MGI 97076
D08	UPFM081421 4	ENSMUST00000 161976.7	Myc	ENSMUSG00 000022346	myelocytomatosis oncogene Source MGI Symbol Acc MGI 97250
D09	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
D10	UPFM076964 2	ENSMUST00000 208783.1	Nos2	ENSMUSG00 000020826	nitric oxide synthase 2, inducible Source MGI Symbol Acc MGI 97361
D11	UPFM075838 6	ENSMUST00000 097592.8	Nr3c1	ENSMUSG00 000024431	nuclear receptor subfamily 3, group C, member 1 Source MGI Symbol Acc MGI 95824
D12	UPFM073875 9	ENSMUST00000 080322.7	Oas1a	ENSMUSG00 000052776	2'-5' oligoadenylate synthetase 1A Source MGI Symbol Acc MGI 2180860
E01	UPFM065231 4	ENSMUST00000 131764.1	Osm	ENSMUSG00 000058755	oncostatin M Source MGI Symbol Acc MGI 104749
E02	UPFM073646 8	ENSMUST00000 202186.3	Pdgfra	ENSMUSG00 000029231	platelet derived growth factor receptor, alpha polypeptide Source MGI Symbol Acc MGI 97530
E03	UPFM072754 8	ENSMUST00000 098651.5	Pias1	ENSMUSG00 000032405	protein inhibitor of activated STAT 1 Source MGI Symbol Acc MGI 1913125
E04	UPFM096366 1	ENSMUST00000 114776.3	Pias2	ENSMUSG00 000025423	protein inhibitor of activated STAT 2 Source MGI Symbol Acc MGI 1096566
E05	UPFM097611 3	ENSMUST00000 110369.9	Prl	ENSMUSG00 000021342	prolactin Source MGI Symbol Acc MGI 97762
E06	UPFM090644 7	ENSMUST00000 132361.7	Prlr	ENSMUSG00 000005268	prolactin receptor Source MGI Symbol Acc MGI 97763
E07	UPFM096458 5	ENSMUST00000 147210.7	Ptfn1	ENSMUSG00 000027540	protein tyrosine phosphatase, non-receptor type 1 Source MGI Symbol Acc MGI 97805
E08	UPFM092286 3	ENSMUST00000 100770.8	Ptfn11	ENSMUSG00 000043733	protein tyrosine phosphatase, non-receptor type 11 Source MGI Symbol Acc MGI 99511
E09	UPFM080782 6	ENSMUST00000 112036.4	Ptprc	ENSMUSG00 000026395	protein tyrosine phosphatase, receptor type, C Source MGI Symbol Acc MGI 97810
E10	UPFM090197 6	ENSMUST00000 002180.7	Spi1	ENSMUSG00 000002111	spleen focus forming virus (SFFV) proviral integration oncogene Source MGI Symbol Acc MGI 98282
E11	UPFM096511 5	ENSMUST00000 205889.1	Sh2b1	ENSMUSG00 000030733	SH2B adaptor protein 1 Source MGI Symbol Acc MGI 1201407
E12	UPFM080045 4	ENSMUST00000 005188.13	Sh2b2	ENSMUSG00 000005057	SH2B adaptor protein 2 Source MGI Symbol Acc MGI 1345171
F01	UPFM099034 9	ENSMUST00000 210678.1	Smad1	ENSMUSG00 000031681	SMAD family member 1 Source MGI Symbol Acc MGI 109452
F02	UPFM077443 3	ENSMUST00000 172198.7	Smad2	ENSMUSG00 000024563	SMAD family member 2 Source MGI Symbol Acc MGI 108051
F03	UPFM088392 2	ENSMUST00000 034973.9	Smad3	ENSMUSG00 000032402	SMAD family member 3 Source MGI Symbol Acc MGI 1201674
F04	UPFM098632 8	ENSMUST00000 114939.1	Smad4	ENSMUSG00 000024515	SMAD family member 4 Source MGI Symbol Acc MGI 894293
F05	UPFM067573 6	ENSMUST00000 109876.7	Smad5	ENSMUSG00 000021540	SMAD family member 5 Source MGI Symbol Acc MGI 1328787
F06	UPFM065177 1	ENSMUST00000 229866.1	Socs1	ENSMUSG00 000038037	suppressor of cytokine signaling 1 Source MGI Symbol Acc MGI 1354910
F07	UPFM094314 5	ENSMUST00000 155148.1	Socs2	ENSMUSG00 000020027	suppressor of cytokine signaling 2 Source MGI Symbol Acc MGI 1201787
F08	UPFM069413 9	ENSMUST00000 054002.3	Socs3	ENSMUSG00 000053113	suppressor of cytokine signaling 3 Source MGI Symbol Acc MGI 1201791
F09	UPFM094357 3	ENSMUST00000 065562.5	Socs4	ENSMUSG00 000048379	suppressor of cytokine signaling 4 Source MGI Symbol Acc MGI 1914546
F10	UPFM097938 5	ENSMUST00000 234803.1	Socs5	ENSMUSG00 000037104	suppressor of cytokine signaling 5 Source MGI Symbol Acc MGI 2385459

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFM083079 3	ENSMUST000000 001326.6	Sp1	ENSMUSG00 000001280	trans-acting transcription factor 1 Source MGI Symbol Acc MGI 98372
F12	UPFM071690 7	ENSMUST000000 109531.7	Src	ENSMUSG00 000027646	Rous sarcoma oncogene Source MGI Symbol Acc MGI 98397
G01	UPFM065375 7	ENSMUST000000 102960.10	Stam	ENSMUSG00 000026718	signal transducing adaptor molecule (SH3 domain and ITAM motif) 1 Source MGI Symbol Acc MGI 1329014
G02	UPFM071531 5	ENSMUST000000 186574.6	Stat1	ENSMUSG00 000026104	signal transducer and activator of transcription 1 Source MGI Symbol Acc MGI 103063
G03	UPFM064876 8	ENSMUST000000 217852.1	Stat2	ENSMUSG00 000040033	signal transducer and activator of transcription 2 Source MGI Symbol Acc MGI 103039
G04	UPFM098484 5	ENSMUST000000 092671.11	Stat3	ENSMUSG00 000004040	signal transducer and activator of transcription 3 Source MGI Symbol Acc MGI 103038
G05	UPFM062533 9	ENSMUST000000 168302.7	Stat4	ENSMUSG00 000062939	signal transducer and activator of transcription 4 Source MGI Symbol Acc MGI 103062
G06	UPFM096618 6	ENSMUST000000 138083.7	Stat5a	ENSMUSG00 000004043	signal transducer and activator of transcription 5A Source MGI Symbol Acc MGI 103036
G07	UPFM070808 3	ENSMUST000000 004143.2	Stat5b	ENSMUSG00 000020919	signal transducer and activator of transcription 5B Source MGI Symbol Acc MGI 103035
G08	UPFM075580 6	ENSMUST000000 092074.11	Stat6	ENSMUSG00 000002147	signal transducer and activator of transcription 6 Source MGI Symbol Acc MGI 103034
G09	UPFM098660 0	ENSMUST000000 236361.1	Stub1	ENSMUSG00 000039615	STIP1 homology and U-Box containing protein 1 Source MGI Symbol Acc MGI 1891731
G10	UPFM093815 1	ENSMUST000000 216874.1	Tyk2	ENSMUSG00 000032175	tyrosine kinase 2 Source MGI Symbol Acc MGI 1929470
G11	UPFM072198 4	ENSMUST000000 161297.7	Usf1	ENSMUSG00 000026641	upstream transcription factor 1 Source MGI Symbol Acc MGI 99542
G12	UPFM086946 3	ENSMUST000000 126912.1	Yy1	ENSMUSG00 000021264	YY1 transcription factor Source MGI Symbol Acc MGI 99150
H01	UPFM113294 6	ENSMUST000000 163829.1	Actb	ENSMUSG00 000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	UPFM113294 7	ENSMUST000000 102476.4	B2m	ENSMUSG00 000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	UPFM113294 8	ENSMUST000000 117757.8	Gapdh	ENSMUSG00 000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	UPFM113294 9	ENSMUST000000 026613.13	Gusb	ENSMUSG00 000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	UPFM113295 0	ENSMUST000000 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 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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