

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

Rat Antibacterial Response

Cat. no. 249955 UPRN-148ZR

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	Akt1	Apcs	Bcl10	Birc3	Bpi	Camp	Card6	Card9	Casp1	Casp8	Ccl3	Ccl4
B	Ccl5	Cd14	Chuk	Crp	Ctsg	Ctsk	Cxcl1	Cxcl3	AABR0700582 1.1	Fadd	Hsp90aa1	Ifnb1
C	Ikbb	Il12a	Il12b	Il18	Il1b	Il6	Irak1	Irak3	Irf5	Irf7	Jun	Lbp
D	Lcn2	Lyz2	Map2k1	Map2k3	Map2k4	LOC1009107 71	Tab1	Mapk1	Mapk14	Mapk3	Mapk8	Mefv
E	Mpo	Myd88	AC135826.1	Nfkb1	Nfkbia	Nlr4	Nlrp1a	Nlrp3	Nod2	Pik3ca	Pik3r1	Prdx2
F	Prtn3	Palp1	Pycard	Rac1	Rela	Ripk1	Ripk2	Slc11a1	Slpi	Sugt1	Ticam2	Tirap
G	Tlr1	Tlr2	Tlr4	Tlr5	Tlr6	Tlr9	LOC1036943 80	Tnfrsf1a	Tollip	Traf6	Xiap	Zbp1
H	Actb	B2m	Hprt1	Ldha	Rplp1	RGDC	QIC	QIC	QIC	PPC	PPC	PPC

Gene table: QuantiNova LNA Probe PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	UPFR1083196	ENSRNOT00000031164.3	Akt1	ENSRNOG0000028629	AKT serine/threonine kinase 1 Source RGD Symbol Acc 2081
A02	UPFR1087468	ENSRNOT00000012092.6	Apcs	ENSRNOG0000009086	amyloid P component, serum Source RGD Symbol Acc 68322
A03	UPFR1104210	ENSRNOT00000019911.6	Bcl10	ENSRNOG0000042389	BCL10, immune signaling adaptor Source RGD Symbol Acc 620544
A04	UPFR1015683	ENSRNOT00000007702.7	Birc3	ENSRNOG0000005731	baculoviral IAP repeat-containing 3 Source RGD Symbol Acc 621282
A05	UPFR1049988	ENSRNOT00000039994.4	Bpi	ENSRNOG0000034195	bactericidal/permeability-increasing protein Source RGD Symbol Acc 1303179
A06	UPFR1074118	ENSRNOT00000028130.7	Camp	ENSRNOG0000020733	cathelicidin antimicrobial peptide Source RGD Symbol Acc 1559878
A07	UPFR1030933	ENSRNOT00000039057.3	Card6	ENSRNOG0000001271	caspase recruitment domain family, member 6 Source RGD Symbol Acc 1305805
A08	UPFR1108989	ENSRNOT00000091484.1	Card9	ENSRNOG0000051470	caspase recruitment domain family, member 9 Source RGD Symbol Acc 708370
A09	UPFR1052168	ENSRNOT00000009993.6	Casp1	ENSRNOG0000007372	caspase 1 Source RGD Symbol Acc 2274
A10	UPFR1030636	ENSRNOT00000016613.4	Casp8	ENSRNOG0000012331	caspase 8 Source RGD Symbol Acc 620945
A11	UPFR1057376	ENSRNOT00000015139.3	Ccl3	ENSRNOG0000011205	C-C motif chemokine ligand 3 Source RGD Symbol Acc 3647
A12	UPFR1110783	ENSRNOT00000015199.3	Ccl4	ENSRNOG0000011406	C-C motif chemokine ligand 4 Source RGD Symbol Acc 620441
B01	UPFR1019085	ENSRNOT00000014865.6	Ccl5	ENSRNOG0000010906	C-C motif chemokine ligand 5 Source RGD Symbol Acc 69069
B02	UPFR1097993	ENSRNOT00000023977.6	Cd14	ENSRNOG0000017819	CD14 molecule Source RGD Symbol Acc 620588
B03	UPFR1110725	ENSRNOT00000030782.4	Chuk	ENSRNOG0000022485	conserved helix-loop-helix ubiquitous kinase Source RGD Symbol Acc 1306661
B04	UPFR1072132	ENSRNOT00000000058.6	Crp	ENSRNOG0000000053	C-reactive protein Source RGD Symbol Acc 2411
B05	UPFR1054610	ENSRNOT00000059677.2	CtsG	ENSRNOG0000020647	cathepsin G Source RGD Symbol Acc 1307681
B06	UPFR1063624	ENSRNOT00000028730.6	CtsK	ENSRNOG0000021155	cathepsin K Source RGD Symbol Acc 61810
B07	UPFR1056296	ENSRNOT00000003778.3	Cxcl1	ENSRNOG0000002802	C-X-C motif chemokine ligand 1 Source RGD Symbol Acc 619869
B08	UPFR1076775	ENSRNOT00000034090.3	Cxcl3	ENSRNOG0000028043	chemokine (C-X-C motif) ligand 3 Source RGD Symbol Acc 621812
B09	UPFR1041507	ENSRNOT00000093490.1	AABR07005821.1	ENSRNOG0000020560	
B10	UPFR1101946	ENSRNOT00000075089.3	Fadd	ENSRNOG0000047035	Fas associated via death domain Source RGD Symbol Acc 628700
B11	UPFR1014170	ENSRNOT00000086310.1	Hsp90aa1	ENSRNOG0000059714	heat shock protein 90 alpha family class A member 1 Source RGD Symbol Acc 631409
B12	UPFR1098156	ENSRNOT00000008224.2	Ifnb1	ENSRNOG0000006268	interferon beta 1 Source RGD Symbol Acc 2865
C01	UPFR1104220	ENSRNOT00000025851.4	Ikbbk	ENSRNOG0000019073	inhibitor of nuclear factor kappa B kinase subunit beta Source RGD Symbol Acc 621375
C02	UPFR1065603	ENSRNOT00000012831.3	Il12a	ENSRNOG0000009468	interleukin 12A Source RGD Symbol Acc 620562
C03	UPFR1060283	ENSRNOT00000005898.6	Il12b	ENSRNOG0000004380	interleukin 12B Source RGD Symbol Acc 628704
C04	UPFR1053861	ENSRNOT00000013093.6	Il18	ENSRNOG0000009848	interleukin 18 Source RGD Symbol Acc 2889
C05	UPFR1121351	ENSRNOT00000006308.4	Il1b	ENSRNOG0000004649	interleukin 1 beta Source RGD Symbol Acc 2891
C06	UPFR1098910	ENSRNOT00000013732.6	Il6	ENSRNOG0000010278	interleukin 6 Source RGD Symbol Acc 2901
C07	UPFR1054336	ENSRNOT00000092207.1	Irak1	ENSRNOG0000060869	interleukin-1 receptor-associated kinase 1 Source RGD Symbol Acc 1563841
C08	UPFR1095667	ENSRNOT00000005686.4	Irak3	ENSRNOG0000004226	interleukin-1 receptor-associated kinase 3 Source RGD Symbol Acc 1308846
C09	UPFR1052261	ENSRNOT00000010001.6	IrF5	ENSRNOG0000007437	interferon regulatory factor 5 Source RGD Symbol Acc 1310447
C10	UPFR1018556	ENSRNOT00000023504.6	IrF7	ENSRNOG0000017414	interferon regulatory factor 7 Source RGD Symbol Acc 1307828
		ENSRNOT000000		ENSRNOG00	Jun proto-oncogene, AP-1 transcription factor subunit Source RGD Symbol Acc

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFR1037970	011731.3	Jun	000026293	2943
C12	UPFR1059996	ENSRNOT00000 019787.2	Lbp	ENSRNOG00 000014532	lipopolysaccharide binding protein Source RGD Symbol Acc 61865
D01	UPFR1029205	ENSRNOT00000 018776.5	Lcn2	ENSRNOG00 000013973	lipocalin 2 Source RGD Symbol Acc 69408
D02	UPFR1088385	ENSRNOT00000 007747.7	Lyz2	ENSRNOG00 000005825	lysozyme 2 Source RGD Symbol Acc 3026
D03	UPFR1053192	ENSRNOT00000 013933.6	Map2k1	ENSRNOG00 000010176	mitogen activated protein kinase kinase 1 Source RGD Symbol Acc 70495
D04	UPFR1058261	ENSRNOT00000 073792.2	Map2k3	ENSRNOG00 000049132	mitogen activated protein kinase kinase 3 Source RGD Symbol Acc 1306620
D05	UPFR1096951	ENSRNOT00000 005293.7	Map2k4	ENSRNOG00 000003834	mitogen activated protein kinase kinase 4 Source RGD Symbol Acc 1307040
D06	UPFR1103973	ENSRNOT00000 007654.5	LOC10091 0771	ENSRNOG00 000005724	mitogen-activated protein kinase kinase kinase 7-like Source RGD Symbol Acc 6496502
D07	UPFR1110113	ENSRNOT00000 067904.3	Tab1	ENSRNOG00 000017285	TGF-beta activated kinase 1/MAP3K7 binding protein 1 Source RGD Symbol Acc 1306216
D08	UPFR1055882	ENSRNOT00000 002533.7	Mapk1	ENSRNOG00 000001849	mitogen activated protein kinase 1 Source RGD Symbol Acc 70500
D09	UPFR1036984	ENSRNOT00000 000617.8	Mapk14	ENSRNOG00 000000513	mitogen activated protein kinase 14 Source RGD Symbol Acc 70496
D10	UPFR1049954	ENSRNOT00000 087625.1	Mapk3	ENSRNOG00 000053583	mitogen activated protein kinase 3 Source RGD Symbol Acc 3046
D11	UPFR1048766	ENSRNOT00000 065216.3	Mapk8	ENSRNOG00 000020155	mitogen-activated protein kinase 8 Source RGD Symbol Acc 621506
D12	UPFR1047560	ENSRNOT00000 081191.1	Mefv	ENSRNOG00 000008134	MEFV, pyrin innate immunity regulator Source RGD Symbol Acc 61889
E01	UPFR1055988	ENSRNOT00000 065910.3	Mpo	ENSRNOG00 000008310	myeloperoxidase Source RGD Symbol Acc 1592081
E02	UPFR1120879	ENSRNOT00000 018341.5	Myd88	ENSRNOG00 000013634	MYD88, innate immune signal transduction adaptor Source RGD Symbol Acc 735043
E03	UPFR1031972	ENSRNOT00000 072926.3	AC135826. 1	ENSRNOG00 000033693	NLR family, apoptosis inhibitory protein 2 Source MGI Symbol Acc MGI 1298226
E04	UPFR1116688	ENSRNOT00000 036838.4	Nfkb1	ENSRNOG00 000023258	nuclear factor kappa B subunit 1 Source RGD Symbol Acc 70498
E05	UPFR1024664	ENSRNOT00000 009894.6	Nfkbia	ENSRNOG00 000007390	NFKB inhibitor alpha Source RGD Symbol Acc 3171
E06	UPFR1110959	ENSRNOT00000 007655.7	Nlrc4	ENSRNOG00 000005810	NLR family, CARD domain containing 4 Source RGD Symbol Acc 1309831
E07	UPFR1017279	ENSRNOT00000 037546.6	Nlrp1a	ENSRNOG00 000023143	NLR family, pyrin domain containing 1A Source RGD Symbol Acc 1310963
E08	UPFR1036618	ENSRNOT00000 004280.5	Nlrp3	ENSRNOG00 000003170	NLR family, pyrin domain containing 3 Source RGD Symbol Acc 1308314
E09	UPFR1045696	ENSRNOT00000 065103.2	Nod2	ENSRNOG00 000014124	nucleotide-binding oligomerization domain containing 2 Source RGD Symbol Acc 1306368
E10	UPFR1035210	ENSRNOT00000 083720.1	Pik3ca	ENSRNOG00 000056371	phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit alpha Source RGD Symbol Acc 620916
E11	UPFR1035231	ENSRNOT00000 075057.1	Pik3r1	ENSRNOG00 000018903	phosphoinositide-3-kinase regulatory subunit 1 Source RGD Symbol Acc 3329
E12	UPFR1094945	ENSRNOT00000 004799.5	Prdx2	ENSRNOG00 000003520	peroxiredoxin 2 Source RGD Symbol Acc 3838
F01	UPFR1043729	ENSRNOT00000 014687.5	Prtn3	ENSRNOG00 000029814	proteinase 3 Source RGD Symbol Acc 1304898
F02	UPFR1014210	ENSRNOT00000 063930.2	Pstpip1	ENSRNOG00 000016413	proline-serine-threonine phosphatase-interacting protein 1 Source RGD Symbol Acc 1307557
F03	UPFR1097767	ENSRNOT00000 026699.4	Pycard	ENSRNOG00 000019675	PYD and CARD domain containing Source RGD Symbol Acc 628637
F04	UPFR1019271	ENSRNOT00000 001417.5	Rac1	ENSRNOG00 000001068	Rac family small GTPase 1 Source RGD Symbol Acc 619755
F05	UPFR1070877	ENSRNOT00000 045233.3	Rela	ENSRNOG00 000030888	RELA proto-oncogene, NF-kB subunit Source RGD Symbol Acc 727889
F06	UPFR1111177	ENSRNOT00000 023962.5	Ripk1	ENSRNOG00 000017787	receptor interacting serine/threonine kinase 1 Source RGD Symbol Acc 1310158
F07	UPFR1074419	ENSRNOT00000 012963.5	Ripk2	ENSRNOG00 000009389	receptor-interacting serine-threonine kinase 2 Source RGD Symbol Acc 1309167
F08	UPFR1016004	ENSRNOT00000 057472.3	Slc11a1	ENSRNOG00 000014956	solute carrier family 11 member 1 Source RGD Symbol Acc 1601463
F09	UPFR1060031	ENSRNOT00000 076191.1	Slpi	ENSRNOG00 000046699	secretory leukocyte peptidase inhibitor Source RGD Symbol Acc 621768
F10	UPFR1097417	ENSRNOT00000 017086.7	Sugt1	ENSRNOG00 000012594	SGT1 homolog, MIS12 kinetochore complex assembly cochaperone Source RGD Symbol Acc 1307550

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFR1029946	ENSRNOT00000059466.2	Ticam2	ENSRNOG0000042070	toll-like receptor adaptor molecule 2 Source RGD Symbol Acc 1308258
F12	UPFR1091338	ENSRNOT00000038312.5	Tirap	ENSRNOG0000021420	TIR domain containing adaptor protein Source RGD Symbol Acc 1595496
G01	UPFR1066076	ENSRNOT00000059124.3	Tlr1	ENSRNOG0000038722	toll-like receptor 1 Source MGI Symbol Acc MGI 1341295
G02	UPFR1061984	ENSRNOT00000013025.4	Tlr2	ENSRNOG0000009822	toll-like receptor 2 Source RGD Symbol Acc 735138
G03	UPFR1020675	ENSRNOT00000014020.3	Tlr4	ENSRNOG0000010522	toll-like receptor 4 Source RGD Symbol Acc 3870
G04	UPFR1117112	ENSRNOT00000004821.4	Tlr5	ENSRNOG0000022067	toll-like receptor 5 Source RGD Symbol Acc 631351
G05	UPFR1064975	ENSRNOT00000002933.5	Tlr6	ENSRNOG0000002161	toll-like receptor 6 Source RGD Symbol Acc 1303030
G06	UPFR1099903	ENSRNOT00000074194.1	Tlr9	ENSRNOG0000048161	toll-like receptor 9 Source RGD Symbol Acc 631352
G07	UPFR1098022	ENSRNOT00000079677.1	LOC103694380	ENSRNOG0000055156	tumor necrosis factor-like Source RGD Symbol Acc 9404643
G08	UPFR1079067	ENSRNOT00000048529.4	Tnfrsf1a	ENSRNOG0000031312	TNF receptor superfamily member 1A Source RGD Symbol Acc 621237
G09	UPFR1079309	ENSRNOT00000046344.3	Tollip	ENSRNOG0000019861	toll interacting protein Source RGD Symbol Acc 1304676
G10	UPFR1106871	ENSRNOT00000006148.5	Traf6	ENSRNOG0000004639	TNF receptor associated factor 6 Source RGD Symbol Acc 1306853
G11	UPFR1049285	ENSRNOT00000009336.3	Xiap	ENSRNOG0000006967	X-linked inhibitor of apoptosis Source RGD Symbol Acc 620692
G12	UPFR1045261	ENSRNOT00000008365.5	Zbp1	ENSRNOG0000006314	Z-DNA binding protein 1 Source RGD Symbol Acc 619956
H01	UPFR1132952	ENSRNOT00000080216.1	Actb	ENSRNOG0000034254	actin, beta Source RGD Symbol Acc 628837
H02	UPFR1132953	ENSRNOT00000023017.5	B2m	ENSRNOG0000017123	beta-2 microglobulin Source RGD Symbol Acc 2189
H03	UPFR1132959	ENSRNOT00000065935.3	Hprt1	ENSRNOG0000048561	hypoxanthine phosphoribosyltransferase 1 Source RGD Symbol Acc 2826
H04	UPFR1018740	ENSRNOT00000017468.2	Ldha	ENSRNOG0000013009	lactate dehydrogenase A Source RGD Symbol Acc 2996
H05	UPFR1132958	ENSRNOT00000018820.5	Rplp1	ENSRNOG0000013874	ribosomal protein lateral stalk subunit P1 Source RGD Symbol Acc 621774
H06	UPFR1126610	UPL_RGDC	RGDC	UPL_RGDC	Rat 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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