

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

Rat Inflammatory Cytokines & Receptors

Cat. no. 249955 UPRN-011ZR

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	Aimp1	Bmp2	Cd11	Cd12	Cd17	Cd19	Cd2	Cd20	Cd22	Cd24	Cd3	Cd4
B	Cd5	Cd6	Cd7	Cd9	Ccr1	Ccr10	Ccr7	Ccr3	Ccr4	Ccr5	Ccr6	Ccr8
C	Cd40lg	Csf1	Csf2	Csf3	Cx3cl1	Cx3cr1	Cxcl1	Cxcl10	Cxcl11	Cxcl12	Cxcl2	Cxcl6
D	Cxcl9	Cxcr2	Cxcr3	Cxcr5	Faslg	Ifng	Il10ra	Il11	Il13	Il15	Il16	Il17a
E	Il17b	Il17f	Il1a	Il1b	Il1r1	Il1rn	Il21	Il27	Il2rb	Il2rg	Il3	Il33
F	Il4	Il5	Il5ra	Il6r	Il6st	Il7	Cxcr1	Lta	LOC1036943 81	LOC1036948 77	Nampt	Osm
G	Pf4	C5	Spp1	LOC1036943 80	Tnfrsf11b	Tnfrsf10	LOC1036899 74	Tnfrsf13	Tnfrsf13b	Tnfrsf14	Tnfrsf4	Vegfa
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	UPFR1022885	ENSRNOT00000015213.6	Aimp1	ENSRNOG0000011384	aminoacyl tRNA synthetase complex-interacting multifunctional protein 1 Source RGD Symbol Acc 620466
A02	UPFR1023820	ENSRNOT00000028904.4	Bmp2	ENSRNOG0000021276	bone morphogenetic protein 2 Source RGD Symbol Acc 2211
A03	UPFR1034165	ENSRNOT00000009756.5	Ccl11	ENSRNOG0000007335	C-C motif chemokine ligand 11 Source RGD Symbol Acc 3644
A04	UPFR1080637	ENSRNOT00000031626.5	Ccl12	ENSRNOG0000029768	chemokine (C-C motif) ligand 12 Source RGD Symbol Acc 1309255
A05	UPFR1085781	ENSRNOT00000021842.2	Ccl17	ENSRNOG0000016278	C-C motif chemokine ligand 17 Source RGD Symbol Acc 619924
A06	UPFR1074099	ENSRNOT00000020982.5	Ccl19	ENSRNOG0000015668	C-C motif chemokine ligand 19 Source RGD Symbol Acc 1310336
A07	UPFR1014050	ENSRNOT00000009448.3	Ccl2	ENSRNOG0000007159	C-C motif chemokine ligand 2 Source RGD Symbol Acc 3645
A08	UPFR1113129	ENSRNOT00000021730.3	Ccl20	ENSRNOG0000015992	C-C motif chemokine ligand 20 Source RGD Symbol Acc 3646
A09	UPFR1070569	ENSRNOT00000022167.3	Ccl22	ENSRNOG0000016535	C-C motif chemokine ligand 22 Source RGD Symbol Acc 619933
A10	UPFR1058995	ENSRNOT00000045157.3	Ccl24	ENSRNOG0000031162	C-C motif chemokine ligand 24 Source RGD Symbol Acc 1310245
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	UPFR1024790	ENSRNOT00000045867.3	Ccl6	ENSRNOG0000030021	chemokine (C-C motif) ligand 6 Source RGD Symbol Acc 1303200
B03	UPFR1083626	ENSRNOT00000000256.4	Ccl7	ENSRNOG0000000239	C-C motif chemokine ligand 7 Source RGD Symbol Acc 1359152
B04	UPFR1104722	ENSRNOT00000029184.5	Ccl9	ENSRNOG0000028548	chemokine (C-C motif) ligand 9 Source RGD Symbol Acc 1310563
B05	UPFR1018077	ENSRNOT00000008772.4	Ccr1	ENSRNOG0000006715	C-C motif chemokine receptor 1 Source RGD Symbol Acc 708446
B06	UPFR1038393	ENSRNOT00000027458.5	Ccr10	ENSRNOG0000020275	C-C motif chemokine receptor 10 Source RGD Symbol Acc 1310716
B07	UPFR1029602	ENSRNOT00000014163.7	Ccr7	ENSRNOG0000010665	C-C motif chemokine receptor 7 Source RGD Symbol Acc 735151
B08	UPFR1051215	ENSRNOT000000008809.4	Ccr3	ENSRNOG0000006736	C-C motif chemokine receptor 3 Source RGD Symbol Acc 620593
B09	UPFR1083127	ENSRNOT00000013705.3	Ccr4	ENSRNOG0000010315	C-C motif chemokine receptor 4 Source RGD Symbol Acc 620594
B10	UPFR1023768	ENSRNOT000000082774.1	Ccr5	ENSRNOG0000049115	C-C motif chemokine receptor 5 Source RGD Symbol Acc 620596
B11	UPFR1017916	ENSRNOT00000017302.6	Ccr6	ENSRNOG0000012964	C-C motif chemokine receptor 6 Source RGD Symbol Acc 1308562
B12	UPFR1086760	ENSRNOT00000029766.1	Ccr8	ENSRNOG0000026759	C-C motif chemokine receptor 8 Source RGD Symbol Acc 1304893
C01	UPFR1038741	ENSRNOT00000001162.4	Cd40lg	ENSRNOG0000000871	CD40 ligand Source RGD Symbol Acc 708418
C02	UPFR1022984	ENSRNOT000000081835.1	Csf1	ENSRNOG0000018659	colony stimulating factor 1 Source RGD Symbol Acc 621063
C03	UPFR1084630	ENSRNOT00000032333.3	Csf2	ENSRNOG0000026805	colony stimulating factor 2 Source RGD Symbol Acc 621065
C04	UPFR1037448	ENSRNOT00000011509.3	Csf3	ENSRNOG0000008525	colony stimulating factor 3 Source RGD Symbol Acc 2426
C05	UPFR1070853	ENSRNOT00000022128.5	Cx3cl1	ENSRNOG0000016326	C-X3-C motif chemokine ligand 1 Source RGD Symbol Acc 620458
C06	UPFR1042789	ENSRNOT00000025019.2	Cx3cr1	ENSRNOG0000018509	C-X3-C motif chemokine receptor 1 Source RGD Symbol Acc 620137
C07	UPFR1056296	ENSRNOT00000003778.3	Cxcl1	ENSRNOG0000002802	C-X-C motif chemokine ligand 1 Source RGD Symbol Acc 619869
C08	UPFR1049597	ENSRNOT00000003075.7	Cxcl10	ENSRNOG0000022256	C-X-C motif chemokine ligand 10 Source RGD Symbol Acc 620209
C09	UPFR1033909	ENSRNOT00000031667.4	Cxcl11	ENSRNOG0000022298	C-X-C motif chemokine ligand 11 Source RGD Symbol Acc 727827
C10	UPFR1044005	ENSRNOT000000066670.3	Cxcl12	ENSRNOG0000013589	C-X-C motif chemokine ligand 12 Source RGD Symbol Acc 3651
		ENSRNOT000000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFR1121790	003745.6	Cxcl2	000002792	C-X-C motif chemokine ligand 2 Source RGD Symbol Acc 70069
C12	UPFR1109014	ENSRNOT00000003823.3	Cxcl6	ENSRNOG0000002843	C-X-C motif chemokine ligand 6 Source RGD Symbol Acc 708540
D01	UPFR1089821	ENSRNOT00000003082.7	Cxcl9	ENSRNOG0000002242	C-X-C motif chemokine ligand 9 Source RGD Symbol Acc 628798
D02	UPFR1078568	ENSRNOT00000019109.2	Cxcr2	ENSRNOG0000014269	C-X-C motif chemokine receptor 2 Source RGD Symbol Acc 2906
D03	UPFR1064685	ENSRNOT00000076210.1	Cxcr3	ENSRNOG0000003305	C-X-C motif chemokine receptor 3 Source RGD Symbol Acc 621528
D04	UPFR1083049	ENSRNOT00000016580.3	Cxcr5	ENSRNOG0000012430	C-X-C motif chemokine receptor 5 Source RGD Symbol Acc 62010
D05	UPFR1108356	ENSRNOT00000003998.2	Faslg	ENSRNOG0000002978	Fas ligand Source RGD Symbol Acc 3880
D06	UPFR1084134	ENSRNOT00000009919.2	Ifng	ENSRNOG0000007468	interferon gamma Source RGD Symbol Acc 2866
D07	UPFR1086231	ENSRNOT00000021926.4	Il10ra	ENSRNOG0000016308	interleukin 10 receptor subunit alpha Source RGD Symbol Acc 620138
D08	UPFR1065504	ENSRNOT00000023489.5	Il11	ENSRNOG0000017386	interleukin 11 Source RGD Symbol Acc 621475
D09	UPFR1038252	ENSRNOT00000010121.2	Il13	ENSRNOG0000007652	interleukin 13 Source RGD Symbol Acc 68949
D10	UPFR1102147	ENSRNOT00000004590.6	Il15	ENSRNOG0000003439	interleukin 15 Source RGD Symbol Acc 2887
D11	UPFR1122227	ENSRNOT00000016289.4	Il16	ENSRNOG0000011680	interleukin 16 Source RGD Symbol Acc 1583872
D12	UPFR1062668	ENSRNOT00000016664.4	Il17a	ENSRNOG0000012467	interleukin 17A Source RGD Symbol Acc 2888
E01	UPFR1119999	ENSRNOT00000026679.6	Il17b	ENSRNOG0000019695	interleukin 17B Source RGD Symbol Acc 620614
E02	UPFR1042305	ENSRNOT00000016717.5	Il17f	ENSRNOG0000012509	interleukin 17F Source RGD Symbol Acc 1311398
E03	UPFR1066959	ENSRNOT00000008081.8	Il1a	ENSRNOG0000004575	interleukin 1 alpha Source RGD Symbol Acc 2890
E04	UPFR1121351	ENSRNOT00000006308.4	Il1b	ENSRNOG0000004649	interleukin 1 beta Source RGD Symbol Acc 2891
E05	UPFR1025024	ENSRNOT000000082146.1	Il1r1	ENSRNOG0000014504	interleukin 1 receptor type 1 Source RGD Symbol Acc 2892
E06	UPFR1086251	ENSRNOT00000007949.6	Il1rn	ENSRNOG0000005871	interleukin 1 receptor antagonist Source RGD Symbol Acc 621159
E07	UPFR1051958	ENSRNOT00000023348.4	Il21	ENSRNOG0000017376	interleukin 21 Source RGD Symbol Acc 1307384
E08	UPFR1104994	ENSRNOT00000025950.5	Il27	ENSRNOG0000019170	interleukin 27 Source RGD Symbol Acc 1561420
E09	UPFR1087659	ENSRNOT00000077438.1	Il2rb	ENSRNOG0000048636	interleukin 2 receptor subunit beta Source RGD Symbol Acc 2896
E10	UPFR1018347	ENSRNOT00000005343.7	Il2rg	ENSRNOG0000003954	interleukin 2 receptor subunit gamma Source RGD Symbol Acc 621466
E11	UPFR1073307	ENSRNOT00000031762.1	Il3	ENSRNOG0000026786	interleukin 3 Source RGD Symbol Acc 2897
E12	UPFR1088661	ENSRNOT00000022056.7	Il33	ENSRNOG0000016456	interleukin 33 Source RGD Symbol Acc 1311155
F01	UPFR1099283	ENSRNOT00000010029.3	Il4	ENSRNOG0000007624	interleukin 4 Source RGD Symbol Acc 2898
F02	UPFR1086524	ENSRNOT00000010729.4	Il5	ENSRNOG0000008111	interleukin 5 Source RGD Symbol Acc 2900
F03	UPFR1022041	ENSRNOT00000008403.3	Il5ra	ENSRNOG0000005954	interleukin 5 receptor subunit alpha Source RGD Symbol Acc 70938
F04	UPFR1035332	ENSRNOT00000028234.7	Il6r	ENSRNOG0000020811	interleukin 6 receptor Source RGD Symbol Acc 2902
F05	UPFR1023505	ENSRNOT00000018877.7	Il6st	ENSRNOG0000013963	interleukin 6 signal transducer Source RGD Symbol Acc 2903
F06	UPFR1101991	ENSRNOT00000016091.7	Il7	ENSRNOG0000011973	interleukin 7 Source RGD Symbol Acc 2904
F07	UPFR1115852	ENSRNOT00000009086.1	Cxcr1	ENSRNOG0000048239	C-X-C motif chemokine receptor 1 Source RGD Symbol Acc 2905
F08	UPFR1116910	ENSRNOT000000088936.1	Lta	ENSRNOG0000000838	lymphotoxin alpha Source RGD Symbol Acc 3020
F09	UPFR1050435	ENSRNOT000000089411.1	LOC103694381	ENSRNOG0000058566	lymphotoxin-beta Source RGD Symbol Acc 9083628
F10	UPFR1126542	ENSRNOT00000008608.4	LOC103694877	ENSRNOG0000006589	macrophage migration inhibitory factor Source RGD Symbol Acc 621163

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFR1037521	ENSRNOT00000013043.6	Nampt	ENSRNOG0000009754	nicotinamide phosphoribosyltransferase Source RGD Symbol Acc 631365
F12	UPFR1058346	ENSRNOT00000035591.3	Osm	ENSRNOG0000024390	oncostatin M Source RGD Symbol Acc 1585012
G01	UPFR1099077	ENSRNOT00000033406.1	Pf4	ENSRNOG0000028015	platelet factor 4 Source RGD Symbol Acc 3305
G02	UPFR1034130	ENSRNOT00000025534.7	C5	ENSRNOG0000018899	complement C5 Source RGD Symbol Acc 2237
G03	UPFR1100110	ENSRNOT00000067875.4	Spp1	ENSRNOG0000043451	secreted phosphoprotein 1 Source RGD Symbol Acc 3752
G04	UPFR1098022	ENSRNOT00000079677.1	LOC103694380	ENSRNOG0000055156	tumor necrosis factor-like Source RGD Symbol Acc 9404643
G05	UPFR1015258	ENSRNOT00000011344.5	Tnfrsf11b	ENSRNOG0000008336	TNF receptor superfamily member 11B Source RGD Symbol Acc 619802
G06	UPFR1107113	ENSRNOT00000017758.5	Tnfsf10	ENSRNOG0000013269	TNF superfamily member 10 Source RGD Symbol Acc 628734
G07	UPFR1105006	ENSRNOT00000049056.4	LOC103689974	ENSRNOG0000049547	TNF superfamily member 11 Source RGD Symbol Acc 620784
G08	UPFR1092546	ENSRNOT00000056903.3	Tnfsf13	ENSRNOG0000014171	TNF superfamily member 13 Source RGD Symbol Acc 1305871
G09	UPFR1049720	ENSRNOT00000076737.2	Tnfsf13b	ENSRNOG0000014464	TNF superfamily member 13b Source RGD Symbol Acc 1561519
G10	UPFR1025657	ENSRNOT00000074247.1	Tnfsf14	ENSRNOG0000047730	TNF superfamily member 14 Source RGD Symbol Acc 1588572
G11	UPFR1107619	ENSRNOT00000003969.5	Tnfsf4	ENSRNOG0000002968	TNF superfamily member 4 Source RGD Symbol Acc 619816
G12	UPFR1117908	ENSRNOT00000026559.5	Vegfa	ENSRNOG0000019598	vascular endothelial growth factor A Source RGD Symbol Acc 619991
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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