

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

Rat Th17 Response

Cat. no. 249955 UPRN-073ZR

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	Ccl1	Ccl2	Ccl20	Ccl22	Cd7	Ccr7	Ccr4	Ccr6	Cd2	Cd28	Cd34	Cd4
B	Cd40lg	Cd8a	Cebpb	Clec7a	Csf2	Csf3	Cx3cl1	Cxcl1	Cxcl12	Cxcl2	Cxcl6	Foxp3
C	Gata3	Icam1	Icos	Ifng	Il10	Il12b	Il12rb1	Il12rb2	Il13	Il15	Il17a	Il17b
D	Il17c	Il17f	Il17ra	Il17rb	Il17rc	Il17re	Il18	Il1b	Il1r1	Il2	Il21	Il22
E	Il23a	Il23r	Il25	Il27	Il3	Il4	Il5	Il6	Il6r	Il9r	Il9	Irf4
F	Isig20	Jak1	Jak2	Mmp3	Mmp9	Myd88	Nfatc2	Nfkb1	Rora	Rorc	Runx1	S1pr1
G	Socs1	Socs3	Stat3	Stat1	Stat5a	Stat6	Syk	Tbx21	Tgfb1	Tlr4	LOC103694380	Traf6
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	UPFR1032143	ENSRNOT00000031360.3	Ccl1	ENSRNOG0000021851	C-C motif chemokine ligand 1 Source RGD Symbol Acc 1586495
A02	UPFR1014050	ENSRNOT00000009448.3	Ccl2	ENSRNOG0000007159	C-C motif chemokine ligand 2 Source RGD Symbol Acc 3645
A03	UPFR1113129	ENSRNOT00000021730.3	Ccl20	ENSRNOG0000015992	C-C motif chemokine ligand 20 Source RGD Symbol Acc 3646
A04	UPFR1070569	ENSRNOT00000022167.3	Ccl22	ENSRNOG0000016535	C-C motif chemokine ligand 22 Source RGD Symbol Acc 619933
A05	UPFR1083626	ENSRNOT00000000256.4	Ccl7	ENSRNOG0000000239	C-C motif chemokine ligand 7 Source RGD Symbol Acc 1359152
A06	UPFR1029602	ENSRNOT00000014163.7	Ccr7	ENSRNOG0000010665	C-C motif chemokine receptor 7 Source RGD Symbol Acc 735151
A07	UPFR1083127	ENSRNOT00000013705.3	Ccr4	ENSRNOG0000010315	C-C motif chemokine receptor 4 Source RGD Symbol Acc 620594
A08	UPFR1017916	ENSRNOT00000017302.6	Ccr6	ENSRNOG0000012964	C-C motif chemokine receptor 6 Source RGD Symbol Acc 1308562
A09	UPFR1122328	ENSRNOT00000021268.7	Cd2	ENSRNOG0000015821	Cd2 molecule Source RGD Symbol Acc 2297
A10	UPFR1119965	ENSRNOT00000013701.3	Cd28	ENSRNOG0000010283	Cd28 molecule Source RGD Symbol Acc 2299
A11	UPFR1033007	ENSRNOT00000057160.3	Cd34	ENSRNOG0000045558	CD34 molecule Source RGD Symbol Acc 1306863
A12	UPFR1096622	ENSRNOT00000021915.2	Cd4	ENSRNOG0000016294	Cd4 molecule Source RGD Symbol Acc 2306
B01	UPFR1038741	ENSRNOT00000001162.4	Cd40lg	ENSRNOG0000000871	CD40 ligand Source RGD Symbol Acc 708418
B02	UPFR1094269	ENSRNOT00000009515.4	Cd8a	ENSRNOG0000007178	CD8a molecule Source RGD Symbol Acc 2316
B03	UPFR1126579	ENSRNOT00000008387.6	Cebpb	ENSRNOG0000057347	CCAAT/enhancer binding protein beta Source RGD Symbol Acc 2327
B04	UPFR1113073	ENSRNOT00000009155.2	Clec7a	ENSRNOG0000054251	C-type lectin domain containing 7A Source RGD Symbol Acc 1565140
B05	UPFR1084630	ENSRNOT00000032333.3	Csf2	ENSRNOG0000026805	colony stimulating factor 2 Source RGD Symbol Acc 621065
B06	UPFR1037448	ENSRNOT00000011509.3	Csf3	ENSRNOG0000008525	colony stimulating factor 3 Source RGD Symbol Acc 2426
B07	UPFR1070853	ENSRNOT00000022128.5	Cx3cl1	ENSRNOG0000016326	C-X3-C motif chemokine ligand 1 Source RGD Symbol Acc 620458
B08	UPFR1056296	ENSRNOT00000003778.3	Cxcl1	ENSRNOG0000002802	C-X-C motif chemokine ligand 1 Source RGD Symbol Acc 619869
B09	UPFR1044005	ENSRNOT00000006667.0	Cxcl12	ENSRNOG0000013589	C-X-C motif chemokine ligand 12 Source RGD Symbol Acc 3651
B10	UPFR1121790	ENSRNOT00000003745.6	Cxcl2	ENSRNOG0000002792	C-X-C motif chemokine ligand 2 Source RGD Symbol Acc 70069
B11	UPFR1109014	ENSRNOT00000003823.3	Cxcl6	ENSRNOG0000002843	C-X-C motif chemokine ligand 6 Source RGD Symbol Acc 708540
B12	UPFR1116172	ENSRNOT00000009114.6	Foxp3	ENSRNOG0000011702	forkhead box P3 Source RGD Symbol Acc 1562112
C01	UPFR1027517	ENSRNOT00000026187.5	Gata3	ENSRNOG0000019336	GATA binding protein 3 Source RGD Symbol Acc 621250
C02	UPFR1031281	ENSRNOT00000028066.5	Icam1	ENSRNOG0000020679	intercellular adhesion molecule 1 Source RGD Symbol Acc 2857
C03	UPFR1053461	ENSRNOT00000071226.2	Icos	ENSRNOG0000046196	inducible T-cell co-stimulator Source RGD Symbol Acc 620123
C04	UPFR1084134	ENSRNOT00000009919.2	Ifng	ENSRNOG0000007468	interferon gamma Source RGD Symbol Acc 2866
C05	UPFR1113235	ENSRNOT00000006246.5	Il10	ENSRNOG0000004647	interleukin 10 Source RGD Symbol Acc 2886
C06	UPFR1060283	ENSRNOT00000005898.6	Il12b	ENSRNOG0000004380	interleukin 12B Source RGD Symbol Acc 628704
C07	UPFR1030980	ENSRNOT00000025977.6	Il12rb1	ENSRNOG0000019216	interleukin 12 receptor subunit beta 1 Source RGD Symbol Acc 620025
C08	UPFR1082019	ENSRNOT00000009883.6	Il12rb2	ENSRNOG0000007270	interleukin 12 receptor subunit beta 2 Source RGD Symbol Acc 620026
C09	UPFR1038252	ENSRNOT00000010121.2	Il13	ENSRNOG0000007652	interleukin 13 Source RGD Symbol Acc 68949
C10	UPFR1102147	ENSRNOT00000004590.6	Il15	ENSRNOG0000003439	interleukin 15 Source RGD Symbol Acc 2887
		ENSRNOT000000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFR1062668	016664.4	Il17a	000012467	interleukin 17A Source RGD Symbol Acc 2888
C12	UPFR1119999	ENSRNOT00000026679.6	Il17b	ENSRNOG0000019695	interleukin 17B Source RGD Symbol Acc 620614
D01	UPFR1085896	ENSRNOT00000017358.4	Il17c	ENSRNOG0000013007	interleukin 17C Source RGD Symbol Acc 1582798
D02	UPFR1042305	ENSRNOT00000016717.5	Il17f	ENSRNOG0000012509	interleukin 17F Source RGD Symbol Acc 1311398
D03	UPFR1113541	ENSRNOT00000014885.6	Il17ra	ENSRNOG0000011153	interleukin 17 receptor A Source RGD Symbol Acc 1306559
D04	UPFR1043969	ENSRNOT00000020823.6	Il17rb	ENSRNOG0000015498	interleukin 17 receptor B Source RGD Symbol Acc 1311392
D05	UPFR1055684	ENSRNOT00000037788.6	Il17rc	ENSRNOG0000027376	interleukin 17 receptor C Source RGD Symbol Acc 1306392
D06	UPFR1120638	ENSRNOT00000056508.3	Il17re	ENSRNOG0000009204	interleukin 17 receptor E Source RGD Symbol Acc 735148
D07	UPFR1053861	ENSRNOT00000013093.6	Il18	ENSRNOG0000009848	interleukin 18 Source RGD Symbol Acc 2889
D08	UPFR1121351	ENSRNOT00000006308.4	Il1b	ENSRNOG0000004649	interleukin 1 beta Source RGD Symbol Acc 2891
D09	UPFR1025024	ENSRNOT00000082146.1	Il1r1	ENSRNOG0000014504	interleukin 1 receptor type 1 Source RGD Symbol Acc 2892
D10	UPFR1070791	ENSRNOT00000023327.2	Il2	ENSRNOG0000017348	interleukin 2 Source RGD Symbol Acc 620047
D11	UPFR1051958	ENSRNOT00000023348.4	Il21	ENSRNOG0000017376	interleukin 21 Source RGD Symbol Acc 1307384
D12	UPFR1058955	ENSRNOT00000009776.4	Il22	ENSRNOG0000007365	interleukin 22 Source RGD Symbol Acc 1561292
E01	UPFR1075411	ENSRNOT00000004363.3	Il23a	ENSRNOG0000003254	interleukin 23 subunit alpha Source RGD Symbol Acc 620873
E02	UPFR1052941	ENSRNOT00000010151.5	Il23r	ENSRNOG0000007544	interleukin 23 receptor Source RGD Symbol Acc 1586368
E03	UPFR1019510	ENSRNOT00000022563.4	Il25	ENSRNOG0000016804	interleukin 25 Source RGD Symbol Acc 1561632
E04	UPFR1104994	ENSRNOT00000025950.5	Il27	ENSRNOG0000019170	interleukin 27 Source RGD Symbol Acc 1561420
E05	UPFR1073307	ENSRNOT00000031762.1	Il3	ENSRNOG0000026786	interleukin 3 Source RGD Symbol Acc 2897
E06	UPFR1099283	ENSRNOT00000010029.3	Il4	ENSRNOG0000007624	interleukin 4 Source RGD Symbol Acc 2898
E07	UPFR1086524	ENSRNOT00000010729.4	Il5	ENSRNOG0000008111	interleukin 5 Source RGD Symbol Acc 2900
E08	UPFR1098910	ENSRNOT00000013732.6	Il6	ENSRNOG0000010278	interleukin 6 Source RGD Symbol Acc 2901
E09	UPFR1035332	ENSRNOT00000028234.7	Il6r	ENSRNOG0000020811	interleukin 6 receptor Source RGD Symbol Acc 2902
E10	UPFR1068376	ENSRNOT00000079290.1	Il9r	ENSRNOG0000020630	interleukin 9 receptor Source RGD Symbol Acc 2907
E11	UPFR1021636	ENSRNOT00000016187.2	Il9	ENSRNOG0000012131	interleukin 9 Source RGD Symbol Acc 620049
E12	UPFR1026456	ENSRNOT00000088931.1	Irf4	ENSRNOG0000061070	interferon regulatory factor 4 Source RGD Symbol Acc 1308050
F01	UPFR1060298	ENSRNOT00000085570.1	Isg20	ENSRNOG0000054561	interferon stimulated exonuclease gene 20 Source RGD Symbol Acc 1306407
F02	UPFR1050030	ENSRNOT00000064542.1	Jak1	ENSRNOG0000011157	Janus kinase 1 Source RGD Symbol Acc 69056
F03	UPFR1096799	ENSRNOT00000087011.1	Jak2	ENSRNOG0000059968	Janus kinase 2 Source RGD Symbol Acc 2939
F04	UPFR1017988	ENSRNOT00000012310.6	Mmp3	ENSRNOG0000032626	matrix metalloproteinase 3 Source RGD Symbol Acc 621317
F05	UPFR1032957	ENSRNOT00000023965.3	Mmp9	ENSRNOG0000017539	matrix metalloproteinase 9 Source RGD Symbol Acc 621320
F06	UPFR1120879	ENSRNOT00000018341.5	Myd88	ENSRNOG0000013634	MYD88, innate immune signal transduction adaptor Source RGD Symbol Acc 735043
F07	UPFR1082530	ENSRNOT00000065615.1	Nfatc2	ENSRNOG0000012175	nuclear factor of activated T-cells 2 Source RGD Symbol Acc 1307690
F08	UPFR1116688	ENSRNOT00000036838.4	Nfkb1	ENSRNOG0000023258	nuclear factor kappa B subunit 1 Source RGD Symbol Acc 70498
F09	UPFR1102393	ENSRNOT00000013142.7	Rora	ENSRNOG0000027145	RAR-related orphan receptor A Source RGD Symbol Acc 1308419
F10	UPFR1065346	ENSRNOT00000067042.3	Rorc	ENSRNOG0000020836	RAR-related orphan receptor C Source RGD Symbol Acc 1595785

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFR1113082	ENSRNOT0000002313.4	Runx1	ENSRNOG0000001704	runt-related transcription factor 1 Source RGD Symbol Acc 2283
F12	UPFR1049908	ENSRNOT00000018318.3	S1pr1	ENSRNOG0000013683	sphingosine-1-phosphate receptor 1 Source RGD Symbol Acc 61958
G01	UPFR1106307	ENSRNOT0000003458.3	Socs1	ENSRNOG0000002568	suppressor of cytokine signaling 1 Source RGD Symbol Acc 69272
G02	UPFR1069728	ENSRNOT0000003940.3	Socs3	ENSRNOG0000002946	suppressor of cytokine signaling 3 Source RGD Symbol Acc 621087
G03	UPFR1040072	ENSRNOT00000026760.4	Stat3	ENSRNOG0000019742	signal transducer and activator of transcription 3 Source RGD Symbol Acc 3772
G04	UPFR1068760	ENSRNOT00000083514.1	Stat1	ENSRNOG0000014079	signal transducer and activator of transcription 4 Source RGD Symbol Acc 1305747
G05	UPFR1042053	ENSRNOT00000026662.3	Stat5a	ENSRNOG0000019496	signal transducer and activator of transcription 5A Source RGD Symbol Acc 3773
G06	UPFR1082210	ENSRNOT00000085350.1	Stat6	ENSRNOG0000025023	signal transducer and activator of transcription 6 Source RGD Symbol Acc 1309063
G07	UPFR1034559	ENSRNOT00000016942.6	Syk	ENSRNOG0000012160	spleen associated tyrosine kinase Source RGD Symbol Acc 3796
G08	UPFR1083222	ENSRNOT00000012538.5	Tbx21	ENSRNOG0000009427	T-box 21 Source RGD Symbol Acc 1308264
G09	UPFR1103881	ENSRNOT00000028051.4	Tgfb1	ENSRNOG0000020652	transforming growth factor, beta 1 Source RGD Symbol Acc 69051
G10	UPFR1020675	ENSRNOT00000014020.3	Tlr4	ENSRNOG0000010522	toll-like receptor 4 Source RGD Symbol Acc 3870
G11	UPFR1098022	ENSRNOT00000079677.1	LOC103694380	ENSRNOG0000055156	tumor necrosis factor-like Source RGD Symbol Acc 9404643
G12	UPFR1106871	ENSRNOT00000006148.5	Traf6	ENSRNOG0000004639	TNF receptor associated factor 6 Source RGD Symbol Acc 1306853
H01	UPFR1132952	ENSRNOT00000080216.1	Actb	ENSRNOG00000034254	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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