

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

Rat Phagocytosis

Cat. no. 249950 SBRN-173ZA

For study focus gene expression analysis

Shipping and storage

QuantiNova LNA PCR Focus Panels are shipped at ambient temperature. Immediately upon receipt, they should be stored 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 PCR Focus Panels should be used together with the QuantiNova Reverse Transcription Kit for cDNA synthesis and the QuantiNova SYBR® Green PCR Kit (Mastermix) for PCR.

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

For the 384-well (4 × 96) PCR panels, genes are present in a staggered format. Refer to the QuantiNova LNA PCR System Handbook at www.qiagen.com for further details.

	1	2	3	4	5	6	7	8	9	10	11	12
A	Adipoq	Ager	Anxa1	Axl	C3	Calr	Cd14	RGD1565355	Cd44	Cd47	Ceacam3	Clec7a
B	Clic4	Cnn1	Cnn3	Colec12	Crk	Crp	Csf1	Csf2	Csk	Cyp2s1	Dock1	AABR0702927 2.1
C	Elmo1	Fas	Fcer1g	Fcgr1a	Fcgr2a	Fcgr2b	Fyn	Gulp1	Ifng	Il1rl1	Itgad	Itgav
D	Itgb2	Lyn	Mapk14	Marco	AABR0700669 1.1	Mcoln3	Mertk	Mfge8	LOC1036948 77	Msn	Myd88	Nod1
E	Nod2	Tlr2	Pik3cb	Pip5k1a	Pla2g4a	Pla2g5	Pld1	Pld2	Prkce	Prosl	Pten	Rab5b
F	Rab7a	Rac1	Rac2	Rala	Ralb	Rapgef3	Rhoa	Scarb1	Serpine1	Sftpd	Siglec1	Sirpa
G	Stab2	Stx18	Syk	Tgm2	Tlr3	Tlr9	LOC1036943 80	LOC1036899 74	Vamp7	Vav1	Was	Wnt5a
H	Actb	B2m	Hprt1	Ldha	Rplp1	RGDC	QlC	QlC	QlC	PPC	PPC	PPC

Gene table: QuantiNova LNA PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	SBR1209814	ENSRNOT0000002492.5	Adipoq	ENSRNOG0000001821	adiponectin, C1Q and collagen domain containing Source RGD Symbol Acc 628748
A02	SBR1189756	ENSRNOT00000000508.4	Ager	ENSRNOG0000000439	advanced glycosylation end product-specific receptor Source RGD Symbol Acc 69258
A03	SBR1211953	ENSRNOT00000023664.6	Anxa1	ENSRNOG0000017469	annexin A1 Source RGD Symbol Acc 2118
A04	SBR1175846	ENSRNOT00000028131.6	Axl	ENSRNOG0000020716	Axl receptor tyrosine kinase Source RGD Symbol Acc 620028
A05	SBR1177146	ENSRNOT00000073042.3	C3	ENSRNOG0000046834	complement C3 Source RGD Symbol Acc 2232
A06	SBR1095160	ENSRNOT00000004091.6	Calr	ENSRNOG0000003029	calreticulin Source RGD Symbol Acc 620288
A07	SBR1200939	ENSRNOT00000023977.6	Cd14	ENSRNOG0000017819	CD14 molecule Source RGD Symbol Acc 620588
A08	SBR1160418	ENSRNOT00000023663.2	RGD1565355	ENSRNOG0000040108	similar to fatty acid translocase/CD36 Source RGD Symbol Acc 1565355
A09	SBR1148883	ENSRNOT00000009000.7	Cd44	ENSRNOG0000006094	CD44 molecule (Indian blood group) Source RGD Symbol Acc 2307
A10	SBR1113800	ENSRNOT00000050142.5	Cd47	ENSRNOG0000001964	Cd47 molecule Source RGD Symbol Acc 2308
A11	SBR1174923	ENSRNOT00000023663.2	Ceacam3	ENSRNOG0000027607	carcinoembryonic antigen-related cell adhesion molecule 3 Source RGD Symbol Acc 2333
A12	SBR1141014	ENSRNOT00000091552.1	Clec7a	ENSRNOG0000054251	C-type lectin domain containing 7A Source RGD Symbol Acc 1565140
B01	SBR1193458	ENSRNOT00000024464.4	Clic4	ENSRNOG0000018109	chloride intracellular channel 4 Source RGD Symbol Acc 61857
B02	SBR1117964	ENSRNOT00000029577.6	Cnn1	ENSRNOG0000027736	calponin 1 Source RGD Symbol Acc 621883
B03	SBR1138853	ENSRNOT00000015579.6	Cnn3	ENSRNOG0000011559	calponin 3 Source RGD Symbol Acc 71044
B04	SBR1108391	ENSRNOT00000065494.1	Colec12	ENSRNOG0000016366	collectin sub-family member 12 Source RGD Symbol Acc 735039
B05	SBR1123117	ENSRNOT00000006407.4	Crk	ENSRNOG0000025792	CRK proto-oncogene, adaptor protein Source RGD Symbol Acc 2405
B06	SBR1169897	ENSRNOT00000000058.6	Crp	ENSRNOG0000000053	C-reactive protein Source RGD Symbol Acc 2411
B07	SBR1099651	ENSRNOT00000025222.6	Csf1	ENSRNOG0000018659	colony stimulating factor 1 Source RGD Symbol Acc 621063
B08	SBR1136894	ENSRNOT00000032333.3	Csf2	ENSRNOG0000026805	colony stimulating factor 2 Source RGD Symbol Acc 621065
B09	SBR1118299	ENSRNOT00000091223.1	Csk	ENSRNOG0000019374	C-terminal Src kinase Source RGD Symbol Acc 1308800
B10	SBR1190827	ENSRNOT00000028177.4	Cyp2s1	ENSRNOG0000020743	cytochrome P450, family 2, subfamily s, polypeptide 1 Source RGD Symbol Acc 1306078
B11	SBR1146936	ENSRNOT00000054897.2	Dock1	ENSRNOG0000018683	dedicator of cyto-kinesis 1 Source RGD Symbol Acc 1566072
B12	SBR1201486	ENSRNOT00000059810.4	AABR07029272.1	ENSRNOG0000006932	
C01	SBR1183271	ENSRNOT00000077910.1	Elmo1	ENSRNOG0000059705	engulfment and cell motility 1 Source RGD Symbol Acc 1308182
C02	SBR1159525	ENSRNOT00000025928.5	Fas	ENSRNOG0000019142	Fas cell surface death receptor Source RGD Symbol Acc 619831
C03	SBR1213470	ENSRNOT00000029179.3	Fcer1g	ENSRNOG0000024159	Fc fragment of IgE receptor Ig Source RGD Symbol Acc 2599
C04	SBR1161283	ENSRNOT00000082450.1	Fcgr1a	ENSRNOG0000021199	Fc fragment of IgG receptor Ia Source RGD Symbol Acc 1309912
C05	SBR1139568	ENSRNOT00000071728.2	Fcgr2a	ENSRNOG0000046663	low affinity immunoglobulin gamma Fc region receptor III-like Source RGD Symbol Acc 6490558
C06	SBR1114116	ENSRNOT00000035400.7	Fcgr2b	ENSRNOG0000046452	Fc fragment of IgG receptor IIb Source RGD Symbol Acc 631331
C07	SBR1167996	ENSRNOT00000085987.1	Fyn	ENSRNOG0000000596	FYN proto-oncogene, Src family tyrosine kinase Source RGD Symbol Acc 2641
C08	SBR1187132	ENSRNOT00000004463.8	Gulp1	ENSRNOG0000003242	GULP PTB domain containing engulfment adaptor 1 Source RGD Symbol Acc 1306380
C09	SBR1108917	ENSRNOT00000009919.2	Ifng	ENSRNOG0000007468	interferon gamma Source RGD Symbol Acc 2866
C10	SBR1195120	ENSRNOT00000020108.5	Il1rl1	ENSRNOG0000014835	interleukin 1 receptor-like 1 Source RGD Symbol Acc 2894
		ENSRNOT000000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBR1114389	086003.1	Itgad	000019728	integrin subunit alpha M Source RGD Symbol Acc 2926
C12	SBR1162857	ENSRNOT00000006961.7	Itgav	ENSRNOG0000004912	integrin subunit alpha V Source RGD Symbol Acc 1310613
D01	SBR1182978	ENSRNOT00000001639.6	Itgb2	ENSRNOG0000001224	integrin subunit beta 2 Source RGD Symbol Acc 1305581
D02	SBR1119275	ENSRNOT00000011130.5	Lyn	ENSRNOG0000008180	LYN proto-oncogene, Src family tyrosine kinase Source RGD Symbol Acc 621017
D03	SBR1149566	ENSRNOT00000000618.6	Mapk14	ENSRNOG0000000513	mitogen activated protein kinase 14 Source RGD Symbol Acc 70496
D04	SBR1138524	ENSRNOT00000075773.2	Marco	ENSRNOG00000049303	macrophage receptor with collagenous structure Source RGD Symbol Acc 1589662
D05	SBR1147809	ENSRNOT00000050984.5	AABR07006691.1	ENSRNOG0000011637	
D06	SBR1156736	ENSRNOT00000020230.6	Mcoln3	ENSRNOG0000015024	mucolipin 3 Source RGD Symbol Acc 1308420
D07	SBR1139919	ENSRNOT00000023419.4	Mertk	ENSRNOG0000017319	MER proto-oncogene, tyrosine kinase Source RGD Symbol Acc 69283
D08	SBR1103815	ENSRNOT00000067889.3	Mfge8	ENSRNOG0000017510	milk fat globule-EGF factor 8 protein Source RGD Symbol Acc 3083
D09	SBR1136891	ENSRNOT00000008608.4	LOC103694877	ENSRNOG0000006589	macrophage migration inhibitory factor Source RGD Symbol Acc 621163
D10	SBR1151055	ENSRNOT00000093499.1	Msn	ENSRNOG0000030118	moesin Source RGD Symbol Acc 621260
D11	SBR1185632	ENSRNOT00000018341.5	Myd88	ENSRNOG0000013634	MYD88, innate immune signal transduction adaptor Source RGD Symbol Acc 735043
D12	SBR1100856	ENSRNOT00000014324.6	Nod1	ENSRNOG0000010629	nucleotide-binding oligomerization domain containing 1 Source RGD Symbol Acc 1562269
E01	SBR1140577	ENSRNOT00000065103.2	Nod2	ENSRNOG0000014124	nucleotide-binding oligomerization domain containing 2 Source RGD Symbol Acc 1306368
E02	SBR1126190	ENSRNOT00000013025.4	Tlr2	ENSRNOG0000009822	toll-like receptor 2 Source RGD Symbol Acc 735138
E03	SBR1157450	ENSRNOT00000022179.4	Pik3cb	ENSRNOG0000016384	phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit beta Source RGD Symbol Acc 620917
E04	SBR1119542	ENSRNOT00000028609.4	Pip5k1a	ENSRNOG0000021068	phosphatidylinositol-4-phosphate 5-kinase, type 1, alpha Source RGD Symbol Acc 1306127
E05	SBR1186102	ENSRNOT00000090693.1	Pla2g4a	ENSRNOG0000002657	phospholipase A2 group IVA Source RGD Symbol Acc 67366
E06	SBR1173987	ENSRNOT00000022716.5	Pla2g5	ENSRNOG0000016838	phospholipase A2, group V Source RGD Symbol Acc 62051
E07	SBR1102001	ENSRNOT00000091545.1	Pld1	ENSRNOG0000028156	phospholipase D1 Source RGD Symbol Acc 3349
E08	SBR1169718	ENSRNOT00000056998.4	Pld2	ENSRNOG0000019604	phospholipase D2 Source RGD Symbol Acc 3350
E09	SBR1097999	ENSRNOT00000020959.7	Prkce	ENSRNOG0000015603	protein kinase C, epsilon Source RGD Symbol Acc 61925
E10	SBR1186244	ENSRNOT00000073689.1	Pros1	ENSRNOG0000048723	protein S Source RGD Symbol Acc 620971
E11	SBR1174124	ENSRNOT00000028143.3	Pten	ENSRNOG0000020723	phosphatase and tensin homolog Source RGD Symbol Acc 61995
E12	SBR1190706	ENSRNOT00000061878.4	Rab5b	ENSRNOG0000006130	RAB5B, member RAS oncogene family Source RGD Symbol Acc 1306489
F01	SBR1102579	ENSRNOT00000016432.6	Rab7a	ENSRNOG0000012247	RAB7A, member RAS oncogene family Source RGD Symbol Acc 61908
F02	SBR1123146	ENSRNOT00000001417.5	Rac1	ENSRNOG0000001068	Rac family small GTPase 1 Source RGD Symbol Acc 619755
F03	SBR1105258	ENSRNOT00000009994.5	Rac2	ENSRNOG0000007350	Rac family small GTPase 2 Source RGD Symbol Acc 1307568
F04	SBR1110595	ENSRNOT00000018190.4	Rala	ENSRNOG0000013454	RAS like proto-oncogene A Source RGD Symbol Acc 619851
F05	SBR1187744	ENSRNOT00000003413.6	Ralb	ENSRNOG0000002440	RAS like proto-oncogene B Source RGD Symbol Acc 619852
F06	SBR1101496	ENSRNOT00000083182.1	Rapgef3	ENSRNOG0000059961	Rap guanine nucleotide exchange factor 3 Source RGD Symbol Acc 621869
F07	SBR1125110	ENSRNOT00000071664.2	Rhoa	ENSRNOG0000050519	ras homolog family member A Source RGD Symbol Acc 619921
F08	SBR1172884	ENSRNOT00000001299.7	Scarb1	ENSRNOG0000000981	scavenger receptor class B, member 1 Source RGD Symbol Acc 2302
F09	SBR1126485	ENSRNOT00000001916.2	Serpine1	ENSRNOG0000001414	serpin family E member 1 Source RGD Symbol Acc 3249
F10	SBR1153919	ENSRNOT00000084813.1	Sftpd	ENSRNOG0000056001	surfactant protein D Source RGD Symbol Acc 3667

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBR1124419	ENSRNOT00000028855.7	Siglec1	ENSRNOG00000021243	sialic acid binding lg like lectin 1 Source RGD Symbol Acc 1311953
F12	SBR1131431	ENSRNOT00000006408.6	Sirpa	ENSRNOG00000004763	signal-regulatory protein alpha Source RGD Symbol Acc 3449
G01	SBR1187074	ENSRNOT00000059538.3	Stab2	ENSRNOG0000038948	stabilin 2 Source RGD Symbol Acc 628822
G02	SBR1136653	ENSRNOT00000008410.5	Stx18	ENSRNOG0000006139	syntaxin 18 Source RGD Symbol Acc 1310058
G03	SBR1203865	ENSRNOT00000016942.6	Syk	ENSRNOG0000012160	spleen associated tyrosine kinase Source RGD Symbol Acc 3796
G04	SBR1185233	ENSRNOT00000018328.5	Tgm2	ENSRNOG0000012956	transglutaminase 2 Source RGD Symbol Acc 621081
G05	SBR1119614	ENSRNOT00000035781.5	Tlr3	ENSRNOG0000021726	toll-like receptor 3 Source RGD Symbol Acc 735171
G06	SBR1143539	ENSRNOT00000074194.1	Tlr9	ENSRNOG0000048161	toll-like receptor 9 Source RGD Symbol Acc 631352
G07	SBR1187845	ENSRNOT00000079677.1	LOC103694380	ENSRNOG0000055156	tumor necrosis factor-like Source RGD Symbol Acc 9404643
G08	SBR1170442	ENSRNOT00000049056.4	LOC103689974	ENSRNOG0000049547	TNF superfamily member 11 Source RGD Symbol Acc 620784
G09	SBR1181744	ENSRNOT00000011065.4	Vamp7	ENSRNOG0000008372	vesicle-associated membrane protein 7 Source RGD Symbol Acc 621558
G10	SBR1203435	ENSRNOT00000073294.2	Vav1	ENSRNOG0000050430	vav guanine nucleotide exchange factor 1 Source RGD Symbol Acc 3951
G11	SBR1126078	ENSRNOT00000073289.3	Was	ENSRNOG0000031058	Wiskott-Aldrich syndrome Source RGD Symbol Acc 1563567
G12	SBR1212833	ENSRNOT00000021164.3	Wnt5a	ENSRNOG0000015618	Wnt family member 5A Source RGD Symbol Acc 69250
H01	SBR1220567	ENSRNOT00000042459.4	Actb	ENSRNOG0000034254	actin, beta Source RGD Symbol Acc 628837
H02	SBR1220568	ENSRNOT00000023017.5	B2m	ENSRNOG0000017123	beta-2 microglobulin Source RGD Symbol Acc 2189
H03	SBR1225377	ENSRNOT00000065935.3	Hprt1	ENSRNOG0000048561	hypoxanthine phosphoribosyltransferase 1 Source RGD Symbol Acc 2826
H04	SBR1122313	ENSRNOT00000017468.2	Ldha	ENSRNOG0000013009	lactate dehydrogenase A Source RGD Symbol Acc 2996
H05	SBR1220572	ENSRNOT00000018820.5	Rplp1	ENSRNOG0000013874	ribosomal protein lateral stalk subunit P1 Source RGD Symbol Acc 621774
H06	SBR1218555	Sybr_RGDC	RGDC	Sybr_RGDC	Rat Genomic DNA Contamination
H07	SBH1218551	Sybr_QIC	QIC	Sybr_QIC	QuantiNova Internal Control
H08	SBH1218551	Sybr_QIC	QIC	Sybr_QIC	QuantiNova Internal Control
H09	SBH1218551	Sybr_QIC	QIC	Sybr_QIC	QuantiNova Internal Control
H10	SBH1218550	Sybr_PPC	PPC	Sybr_PPC	Positive PCR Control
H11	SBH1218550	Sybr_PPC	PPC	Sybr_PPC	Positive PCR Control
H12	SBH1218550	Sybr_PPC	PPC	Sybr_PPC	Positive PCR Control

Related products

Product	Contents	Cat. no.
QuantiNova LNA PCR QC Panel	These panels are designed to assess the quality of RNA samples before characterization using QuantiNova LNA PCR Focus Panels; available in 96-well, 384-well, and Rotor-Disc 100 formats	249940
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 SYBR Green RT-PCR Kit (100)*	For 100 x 20 μ l reactions: 1 ml QuantiNova SYBR Green RT-PCR Master Mix, 20 μ l QuantiNova SYBR Green 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	208152
QuantiNova SYBR Green PCR Kit (100)*	For 100 x 20 μ l reactions: 1 ml 2x QuantiNova SYBR Green PCR Master Mix, 500 μ l QuantiNova Yellow Template Dilution Buffer, 250 μ l QN ROX Reference Dye, 1.9 ml Water	208052

*Larger kit sizes available.

The QuantiNova LNA 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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