

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

Rat Cardiotoxicity

Cat. no. 249950 SBRN-095ZA

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	Abhd2	Abra	Acta1	Adra2a	Aifm1	Ak3	Ash1l	Atp5pf	Bcat1	Bgn	Bsn	Blg2
B	Cd7	Ccr1	Cd14	Cfd	Ch25h	Ckm	Col15a1	Col3a1	Crem	Cank2a2	Dusp8	Egr1
C	Fcgr2b	Fhl1	Fosl1	Gja1	Gpm6a	Hamp	Hspa2	Hsph1	Ifi202	Igf1bp5	Il6	Ilpr2
D	Klhl41	Klhl40	Kcnj12	Mcm6	AC128848.1	Nexn	Nfib	Pdk4	Pkn2	Pla2g4a	Plau	Pln
E	Bpifa1	Postn	Ppbp	Ppp1r14c	Prkab2	Psm2	Psmc7	Pum2	PVR	Rbm3	Reg3b	Rnd1
F	Rps6kb1	S1pr2	Serpine1	Sik1	Slc4a3	AABR0702757 S.1	Spp1	Tcf4	Tgfb2	Thrap3	Tiam1	Timp1
G	Tubb6	Txnip	Uba5	Ubxn2a	Uck2	Ucp1	Vcan	Vegfa	Vim	Wipi1	Zfp148	Zfp612
H	Actb	B2m	Hprt1	Ldha	Rplp1	RGDC	QIC	QIC	QIC	PPC	PPC	PPC

Gene table: QuantiNova LNA PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	SBR1133852	ENSRNOT00000023506.6	Abhd2	ENSRNOG0000017120	abhydrolase domain containing 2 Source RGD Symbol Acc 1311389
A02	SBR1105577	ENSRNOT00000010539.3	Abr	ENSRNOG0000007999	actin-binding Rho activating protein Source RGD Symbol Acc 708493
A03	SBR1093875	ENSRNOT00000024084.6	Acta1	ENSRNOG0000017786	actin, alpha 1, skeletal muscle Source RGD Symbol Acc 2025
A04	SBR1152272	ENSRNOT00000071541.1	Adra2a	ENSRNOG0000047545	adrenoceptor alpha 2A Source RGD Symbol Acc 2056
A05	SBR1190041	ENSRNOT00000008503.5	Aifm1	ENSRNOG0000006067	apoptosis inducing factor, mitochondria associated 1 Source RGD Symbol Acc 620817
A06	SBR1208995	ENSRNOT00000079875.1	Ak3	ENSRNOG0000052506	adenylate kinase 3 Source RGD Symbol Acc 619885
A07	SBR1146041	ENSRNOT00000027629.7	Ash1l	ENSRNOG0000020386	ASH1 like histone lysine methyltransferase Source RGD Symbol Acc 1306350
A08	SBR1117217	ENSRNOT00000002116.4	Atp5pf	ENSRNOG0000001551	ATP synthase peripheral stalk subunit F6 Source RGD Symbol Acc 621376
A09	SBR1207281	ENSRNOT000000080410.1	Bcat1	ENSRNOG0000015514	branched chain amino acid transaminase 1 Source RGD Symbol Acc 2195
A10	SBR1105276	ENSRNOT000000085201.1	Bgn	ENSRNOG0000055962	biglycan Source RGD Symbol Acc 2207
A11	SBR1182680	ENSRNOT00000042528.4	Bsn	ENSRNOG0000030714	bassoon (presynaptic cytomatrix protein) Source RGD Symbol Acc 2223
A12	SBR1132920	ENSRNOT00000004408.3	Btg2	ENSRNOG0000003300	BTG anti-proliferation factor 2 Source RGD Symbol Acc 2225
B01	SBR1105598	ENSRNOT00000000256.4	Ccl7	ENSRNOG0000000239	C-C motif chemokine ligand 7 Source RGD Symbol Acc 1359152
B02	SBR1135029	ENSRNOT000000008772.4	Ccr1	ENSRNOG0000006715	C-C motif chemokine receptor 1 Source RGD Symbol Acc 708446
B03	SBR1200939	ENSRNOT00000023977.6	Cd14	ENSRNOG0000017819	CD14 molecule Source RGD Symbol Acc 620588
B04	SBR1215139	ENSRNOT000000015029.4	Cfd	ENSRNOG0000033564	complement factor D Source RGD Symbol Acc 2498
B05	SBR1165453	ENSRNOT00000025856.3	Ch25h	ENSRNOG0000019141	cholesterol 25-hydroxylase Source RGD Symbol Acc 1310575
B06	SBR1194184	ENSRNOT00000022895.4	Ckm	ENSRNOG0000016837	creatine kinase, M-type Source RGD Symbol Acc 2358
B07	SBR1177380	ENSRNOT000000088385.1	Col15a1	ENSRNOG0000060381	collagen type XV alpha 1 chain Source RGD Symbol Acc 1310820
B08	SBR1150486	ENSRNOT000000004956.4	Col3a1	ENSRNOG0000003357	collagen type III alpha 1 chain Source RGD Symbol Acc 71029
B09	SBR1147022	ENSRNOT000000020160.8	Crem	ENSRNOG0000014900	cAMP responsive element modulator Source RGD Symbol Acc 2402
B10	SBR1148547	ENSRNOT000000016386.7	Csnk2a2	ENSRNOG0000011933	casein kinase 2 alpha 2 Source RGD Symbol Acc 1306882
B11	SBR1095635	ENSRNOT000000044565.5	Dusp8	ENSRNOG0000029394	dual specificity phosphatase 8 Source RGD Symbol Acc 1306425
B12	SBR1216566	ENSRNOT000000026303.4	Egr1	ENSRNOG0000019422	early growth response 1 Source RGD Symbol Acc 2544
C01	SBR1114116	ENSRNOT000000035400.7	Fcgr2b	ENSRNOG0000046452	Fc fragment of IgG receptor IIb Source RGD Symbol Acc 631331
C02	SBR1095245	ENSRNOT000000083502.1	Fhl1	ENSRNOG0000000875	four and a half LIM domains 1 Source RGD Symbol Acc 2615
C03	SBR1182363	ENSRNOT000000027891.2	Fosl1	ENSRNOG0000020552	FOS like 1, AP-1 transcription factor subunit Source RGD Symbol Acc 2627
C04	SBR1181138	ENSRNOT000000001054.4	Gja1	ENSRNOG0000000805	gap junction protein, alpha 1 Source RGD Symbol Acc 2690
C05	SBR1209397	ENSRNOT000000014312.7	Gpm6a	ENSRNOG0000010731	glycoprotein m6a Source RGD Symbol Acc 631368
C06	SBR1197990	ENSRNOT000000028545.4	Hamp	ENSRNOG0000021029	hepcidin antimicrobial peptide Source RGD Symbol Acc 70971
C07	SBR1199480	ENSRNOT000000008504.5	Hspa2	ENSRNOG0000006472	heat shock protein family A member 2 Source RGD Symbol Acc 620664
C08	SBR1096780	ENSRNOT000000001201.7	Hsph1	ENSRNOG0000000902	heat shock protein family H (Hsp110) member 1 Source RGD Symbol Acc 1311609
C09	SBR1117819	ENSRNOT000000011795.5	Ift20	ENSRNOG0000008891	intraflagellar transport 20 Source RGD Symbol Acc 1309400
C10	SBR1137301	ENSRNOT000000079493.1	Igfbp5	ENSRNOG0000017206	insulin-like growth factor binding protein 5 Source RGD Symbol Acc 2876
		ENSRNOT000000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBR1156877	013732.6	Il6	000010278	interleukin 6 Source RGD Symbol Acc 2901
C12	SBR1157296	ENSRNOT00000040645.5	Itpr2	ENSRNOG0000001804	inositol 1,4,5-trisphosphate receptor, type 2 Source RGD Symbol Acc 69649
D01	SBR1200043	ENSRNOT00000009969.3	Klhl41	ENSRNOG0000007461	kelch-like family member 41 Source RGD Symbol Acc 620852
D02	SBR1211551	ENSRNOT00000026234.5	Klhl40	ENSRNOG0000019390	kelch-like family member 40 Source RGD Symbol Acc 1305368
D03	SBR1097635	ENSRNOT00000057953.2	Kcnj12	ENSRNOG0000002303	potassium voltage-gated channel subfamily J member 12 Source RGD Symbol Acc 621660
D04	SBR1198422	ENSRNOT00000004969.6	Mcm6	ENSRNOG0000003703	minichromosome maintenance complex component 6 Source RGD Symbol Acc 61967
D05	SBR1218534	ENSRNOT00000038212.5	AC128848.1	ENSRNOG0000025764	
D06	SBR1161292	ENSRNOT00000083344.1	Nexn	ENSRNOG0000012512	nexilin (F actin binding protein) Source RGD Symbol Acc 708354
D07	SBR1152573	ENSRNOT00000067435.3	Nfib	ENSRNOG0000009795	nuclear factor I/B Source RGD Symbol Acc 62015
D08	SBR1096444	ENSRNOT00000012760.4	Pdk4	ENSRNOG0000009565	pyruvate dehydrogenase kinase 4 Source RGD Symbol Acc 69061
D09	SBR1187854	ENSRNOT00000031748.5	Pkn2	ENSRNOG0000011317	protein kinase N2 Source RGD Symbol Acc 620146
D10	SBR1186102	ENSRNOT00000090693.1	Pla2g4a	ENSRNOG0000002657	phospholipase A2 group IVA Source RGD Symbol Acc 67366
D11	SBR1186883	ENSRNOT00000014273.5	Plau	ENSRNOG0000010516	plasminogen activator, urokinase Source RGD Symbol Acc 3343
D12	SBR1106949	ENSRNOT00000000469.5	Pln	ENSRNOG0000000413	phospholamban Source RGD Symbol Acc 619894
E01	SBR1098135	ENSRNOT00000018581.4	Bpifa1	ENSRNOG0000013859	BPI fold containing family A, member 1 Source RGD Symbol Acc 619818
E02	SBR1157129	ENSRNOT00000017453.3	Postn	ENSRNOG0000012660	periostin Source RGD Symbol Acc 1305285
E03	SBR1101427	ENSRNOT00000003794.3	Ppbp	ENSRNOG0000002829	pro-platelet basic protein Source RGD Symbol Acc 70548
E04	SBR1100721	ENSRNOT00000022046.3	Ppp1r14c	ENSRNOG0000016368	protein phosphatase 1, regulatory (inhibitor) subunit 14c Source RGD Symbol Acc 620538
E05	SBR1188517	ENSRNOT00000063783.2	Prkab2	ENSRNOG0000018166	protein kinase AMP-activated non-catalytic subunit beta 2 Source RGD Symbol Acc 620905
E06	SBR1121957	ENSRNOT00000073834.2	Psma2	ENSRNOG0000049920	proteasome subunit alpha 2 Source RGD Symbol Acc 61842
E07	SBR1113469	ENSRNOT00000019104.6	Psmc7	ENSRNOG0000014097	proteasome 26S subunit, non-ATPase 7 Source RGD Symbol Acc 1306902
E08	SBR1216276	ENSRNOT00000008359.6	Pum2	ENSRNOG0000006180	pumilio RNA-binding family member 2 Source RGD Symbol Acc 1311024
E09	SBR1108421	ENSRNOT00000064305.3	PVR	ENSRNOG0000019202	poliovirus receptor Source RGD Symbol Acc 3813
E10	SBR1183024	ENSRNOT00000007367.6	Rbm3	ENSRNOG0000005387	RNA binding motif protein 3 Source RGD Symbol Acc 620145
E11	SBR1189579	ENSRNOT00000008212.2	Reg3b	ENSRNOG0000006151	regenerating family member 3 beta Source RGD Symbol Acc 3254
E12	SBR1097170	ENSRNOT00000077856.1	Rnd1	ENSRNOG0000059857	Rho family GTPase 1 Source RGD Symbol Acc 1306338
F01	SBR1105085	ENSRNOT00000005226.4	Rps6kb1	ENSRNOG0000003919	ribosomal protein S6 kinase B1 Source RGD Symbol Acc 620683
F02	SBR1201599	ENSRNOT00000028034.4	S1pr2	ENSRNOG0000020653	sphingosine-1-phosphate receptor 2 Source RGD Symbol Acc 68334
F03	SBR1126485	ENSRNOT00000001916.2	Serpine1	ENSRNOG0000001414	serpin family E member 1 Source RGD Symbol Acc 3249
F04	SBR1183000	ENSRNOT00000001579.6	Sik1	ENSRNOG0000001189	salt-inducible kinase 1 Source RGD Symbol Acc 69407
F05	SBR1209982	ENSRNOT00000027337.3	Slc4a3	ENSRNOG0000020138	solute carrier family 4 member 3 Source RGD Symbol Acc 3712
F06	SBR1193948	ENSRNOT00000080424.1	AABR07027575.1	ENSRNOG0000058289	
F07	SBR1210860	ENSRNOT00000075989.1	Spp1	ENSRNOG0000043451	secreted phosphoprotein 1 Source RGD Symbol Acc 3752
F08	SBR1134900	ENSRNOT00000081797.1	Tcf4	ENSRNOG0000012405	transcription factor 4 Source RGD Symbol Acc 69271
F09	SBR1164140	ENSRNOT00000087023.1	Tgfb2	ENSRNOG0000002418	transforming growth factor, beta 2 Source RGD Symbol Acc 70491
F10	SBR1203080	ENSRNOT00000013570.6	Thrap3	ENSRNOG0000009977	thyroid hormone receptor associated protein 3 Source RGD Symbol Acc 1306129

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBR1095684	ENSRNOT00000046486.5	Tiam1	ENSRNOG0000021569	T-cell lymphoma invasion and metastasis 1 Source RGD Symbol Acc 1307455
F12	SBR1154276	ENSRNOT00000013745.7	Timp1	ENSRNOG0000010208	TIMP metalloproteinase inhibitor 1 Source RGD Symbol Acc 621675
G01	SBR1110868	ENSRNOT00000024947.4	Tubb6	ENSRNOG0000018371	tubulin, beta 6 class V Source RGD Symbol Acc 1305887
G02	SBR1211460	ENSRNOT00000028793.6	Txnip	ENSRNOG0000021201	thioredoxin interacting protein Source RGD Symbol Acc 620886
G03	SBR1184469	ENSRNOT00000015240.5	Uba5	ENSRNOG0000011027	ubiquitin-like modifier activating enzyme 5 Source RGD Symbol Acc 1311702
G04	SBR1180743	ENSRNOT00000006668.5	Ubxn2a	ENSRNOG0000004950	UBX domain protein 2A Source RGD Symbol Acc 1589027
G05	SBR1112323	ENSRNOT00000090668.1	Uck2	ENSRNOG0000003917	uridine-cytidine kinase 2 Source RGD Symbol Acc 620742
G06	SBR1129529	ENSRNOT00000004900.4	Ucp1	ENSRNOG0000003580	uncoupling protein 1 Source RGD Symbol Acc 3931
G07	SBR1171946	ENSRNOT00000063821.3	Vcan	ENSRNOG0000029212	versican Source RGD Symbol Acc 619940
G08	SBR1108862	ENSRNOT00000044163.4	Vegfa	ENSRNOG0000019598	vascular endothelial growth factor A Source RGD Symbol Acc 619991
G09	SBR1197523	ENSRNOT00000024430.5	Vim	ENSRNOG0000018087	vimentin Source RGD Symbol Acc 621646
G10	SBR1187883	ENSRNOT00000005172.7	Wipi1	ENSRNOG0000003827	WD repeat domain, phosphoinositide interacting 1 Source RGD Symbol Acc 1307754
G11	SBR1168298	ENSRNOT00000086955.1	Zfp148	ENSRNOG0000001789	zinc finger protein 148 Source RGD Symbol Acc 62063
G12	SBR1099342	ENSRNOT00000022757.5	Zfp612	ENSRNOG0000016971	zinc finger protein 612 Source RGD Symbol Acc 1307197
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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