

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

Mouse Prostate Cancer

Cat. no. 249950 SBMM-135ZR

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 (Rotor-Gene): QuantiNova LNA 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 PCR System Handbook at www.qiagen.com for further details.

	1	2	3	4	5	6	7	8	9	10	11	12
A	Abcb1a	Abcb1b	Acaca	Akt1	Apc	Ar	Arntl	Bcl2	Camkk1	Casp3	Cav2	Ccna1
B	Ccnd1	Ccnd2	Cdh1	Cdkn1a	Cdkn2a	Cln3	Creb1	Dab2ip	Daxx	Ddx11	Dkk3	Dlc1
C	Ecd2	Egfr	Egr3	Erg	Etv1	Fasn	Foxo1	Gadd45a	Gca	Gnrh1	Gpx3	Gstp1
D	Hal	Hmger	Igf1	Igfbp5	Il6	Ints6	Klf13	Klkb1	Lgals4	Loxl1	Mapk1	Max
E	Mx1	Mto1	Ndr3	Nfkb1	Nlx3-1	Nrip1	Pdpr1	Pes1	Ppp2r1b	Prkab1	Pten	Ptgs1
F	Rarb	Rassf1	Rb1	Rbm39	Rbp1	Scaf11	Sept7	Sfn	Sfrp1	Shbg	Slc5a8	Socs3
G	Sox4	Sreb1	Slk11	Sup71	Tfpi2	Tgfb11	Timp2	Timp3	Tmprs2	Trp53	Usp5	Vegfa
H	Actb	B2m	Gapdh	Gusb	Hsp90ab1	MGDC	QIC	QIC	QIC	PPC	PPC	PPC

Gene table: QuantiNova LNA PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	SBM1065613	ENSMUST00000126846.1	Abcb1a	ENSMUSG0000040584	ATP-binding cassette, sub-family B (MDR/TAP), member 1A Source MGI Symbol Acc MGI 97570
A02	SBM1012642	ENSMUST00000009058.9	Abcb1b	ENSMUSG0000028970	ATP-binding cassette, sub-family B (MDR/TAP), member 1B Source MGI Symbol Acc MGI 97568
A03	SBM0933576	ENSMUST00000133811.2	Acaca	ENSMUSG0000020532	acetyl-Coenzyme A carboxylase alpha Source MGI Symbol Acc MGI 108451
A04	SBM1020452	ENSMUST00000144550.8	Akt1	ENSMUSG0000001729	thymoma viral proto-oncogene 1 Source MGI Symbol Acc MGI 87986
A05	SBM0782035	ENSMUST00000079362.12	Apc	ENSMUSG0000005871	APC, WNT signaling pathway regulator Source MGI Symbol Acc MGI 88039
A06	SBM0829583	ENSMUST00000052837.8	Ar	ENSMUSG0000046532	androgen receptor Source MGI Symbol Acc MGI 88064
A07	SBM1062547	ENSMUST00000047321.8	Arntl	ENSMUSG0000055116	aryl hydrocarbon receptor nuclear translocator-like Source MGI Symbol Acc MGI 1096381
A08	SBM0876340	ENSMUST00000189999.1	Bcl2	ENSMUSG0000057329	B cell leukemia/lymphoma 2 Source MGI Symbol Acc MGI 88138
A09	SBM1057268	ENSMUST00000145834.1	Camkk1	ENSMUSG0000020785	calcium/calmodulin-dependent protein kinase kinase 1, alpha Source MGI Symbol Acc MGI 1891766
A10	SBM0732165	ENSMUST00000093517.6	Casp3	ENSMUSG0000031628	caspace 3 Source MGI Symbol Acc MGI 107739
A11	SBM0700536	ENSMUST00000115462.1	Cav2	ENSMUSG0000000058	caveolin 2 Source MGI Symbol Acc MGI 107571
A12	SBM0877611	ENSMUST00000197238.4	Ccna1	ENSMUSG0000027793	cyclin A1 Source MGI Symbol Acc MGI 108042
B01	SBM0706150	ENSMUST00000093962.4	Ccnd1	ENSMUSG0000070348	cyclin D1 Source MGI Symbol Acc MGI 88313
B02	SBM0977018	ENSMUST00000201066.1	Ccnd2	ENSMUSG0000000184	cyclin D2 Source MGI Symbol Acc MGI 88314
B03	SBM0815100	ENSMUST00000136580.1	Cdh1	ENSMUSG0000000303	cadherin 1 Source MGI Symbol Acc MGI 88354
B04	SBM1034022	ENSMUST00000023829.7	Cdkn1a	ENSMUSG0000023067	cyclin-dependent kinase inhibitor 1A (P21) Source MGI Symbol Acc MGI 104556
B05	SBM0998051	ENSMUST00000060501.4	Cdkn2a	ENSMUSG0000044303	cyclin dependent kinase inhibitor 2A Source MGI Symbol Acc MGI 104738
B06	SBM0945049	ENSMUST00000150587.7	Cln3	ENSMUSG0000030720	ceroid lipofuscinosis, neuronal 3, juvenile (Batten, Spielmeier-Vogt disease) Source MGI Symbol Acc MGI 107537
B07	SBM0735214	ENSMUST00000188855.6	Creb1	ENSMUSG0000025958	cAMP responsive element binding protein 1 Source MGI Symbol Acc MGI 88494
B08	SBM0854213	ENSMUST00000112987.7	Dab2ip	ENSMUSG0000026883	disabled 2 interacting protein Source MGI Symbol Acc MGI 1916851
B09	SBM0848719	ENSMUST00000173626.7	Daxx	ENSMUSG0000002307	Fas death domain-associated protein Source MGI Symbol Acc MGI 1197015
B10	SBM1072320	ENSMUST00000225687.1	Ddx11	ENSMUSG0000035842	DEAD/H (Asp-Glu-Ala-Asp/His) box helicase 11 Source MGI Symbol Acc MGI 2443590
B11	SBM0939228	ENSMUST00000033036.6	Dkk3	ENSMUSG0000030772	dickkopf WNT signaling pathway inhibitor 3 Source MGI Symbol Acc MGI 1354952
B12	SBM0673932	ENSMUST00000145245.1	Dlc1	ENSMUSG0000031523	deleted in liver cancer 1 Source MGI Symbol Acc MGI 1354949
C01	SBM0861628	ENSMUST00000175857.1	Ect2	ENSMUSG0000027699	ect2 oncogene Source MGI Symbol Acc MGI 95281
C02	SBM1033270	ENSMUST00000020329.12	Egfr	ENSMUSG0000020122	epidermal growth factor receptor Source MGI Symbol Acc MGI 95294
C03	SBM0735904	ENSMUST00000035908.2	Egr3	ENSMUSG0000033730	early growth response 3 Source MGI Symbol Acc MGI 1306780
C04	SBM0906391	ENSMUST00000233881.1	Erg	ENSMUSG0000040732	ETS transcription factor Source MGI Symbol Acc MGI 95415
C05	SBM0829411	ENSMUST00000162563.7	Etv1	ENSMUSG0000004151	ets variant 1 Source MGI Symbol Acc MGI 99254
C06	SBM1047932	ENSMUST00000206589.1	Fasn	ENSMUSG0000025153	fatty acid synthase Source MGI Symbol Acc MGI 95485
C07	SBM0795258	ENSMUST00000053764.6	Foxo1	ENSMUSG0000044167	forkhead box O1 Source MGI Symbol Acc MGI 1890077
C08	SBM0962210	ENSMUST00000151958.1	Gadd45a	ENSMUSG0000036390	growth arrest and DNA-damage-inducible 45 alpha Source MGI Symbol Acc MGI 107799
C09	SBM0711163	ENSMUST00000028257.2	Gca	ENSMUSG0000026893	granulocitin Source MGI Symbol Acc MGI 1918521
C10	SBM0802854	ENSMUST00000111095.3	Gnrh1	ENSMUSG0000015812	gonadotropin releasing hormone 1 Source MGI Symbol Acc MGI 95789
		ENSMUST00000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM0906281	149324.1	Gpx3	000018339	glutathione peroxidase 3 Source MGI Symbol Acc MGI 105102
C12	SBM1021264	ENSMUST00000237239.1	Gstp1	ENSMUSG0000060803	glutathione S-transferase, pi 1 Source MGI Symbol Acc MGI 95865
D01	SBM0804190	ENSMUST0000016031.13	Hal	ENSMUSG0000020017	histidine ammonia lyase Source MGI Symbol Acc MGI 96010
D02	SBM0852758	ENSMUST00000169196.7	Hmgcr	ENSMUSG0000021670	3-hydroxy-3-methylglutaryl-Coenzyme A reductase Source MGI Symbol Acc MGI 96159
D03	SBM1026650	ENSMUST00000122386.7	Igf1	ENSMUSG0000020053	insulin-like growth factor 1 Source MGI Symbol Acc MGI 96432
D04	SBM1004323	ENSMUST00000137339.1	Igfbp5	ENSMUSG0000026185	insulin-like growth factor binding protein 5 Source MGI Symbol Acc MGI 96440
D05	SBM0742623	ENSMUST0000026845.11	Il6	ENSMUSG0000025746	interleukin 6 Source MGI Symbol Acc MGI 96559
D06	SBM1000284	ENSMUST0000053959.6	Ints6	ENSMUSG0000035161	integrator complex subunit 6 Source MGI Symbol Acc MGI 1202397
D07	SBM0769173	ENSMUST00000115319.8	Klhl13	ENSMUSG0000036782	kelch-like 13 Source MGI Symbol Acc MGI 1914705
D08	SBM0919517	ENSMUST0000026907.5	Klkb1	ENSMUSG0000109764	kallikrein B, plasma 1 Source MGI Symbol Acc MGI 102849
D09	SBM0846568	ENSMUST00000208971.1	Lgals4	ENSMUSG0000053964	lectin, galactose binding, soluble 4 Source MGI Symbol Acc MGI 107536
D10	SBM0898252	ENSMUST0000061799.9	Loxl1	ENSMUSG0000032334	lysyl oxidase-like 1 Source MGI Symbol Acc MGI 106096
D11	SBM0800614	ENSMUST00000231821.1	Mapk1	ENSMUSG0000063358	mitogen-activated protein kinase 1 Source MGI Symbol Acc MGI 1346858
D12	SBM0734133	ENSMUST00000218640.1	Max	ENSMUSG0000059436	Max protein Source MGI Symbol Acc MGI 96921
E01	SBM0852441	ENSMUST0000063116.9	Msx1	ENSMUSG0000048450	msh homeobox 1 Source MGI Symbol Acc MGI 97168
E02	SBM0849273	ENSMUST00000133002.1	Mto1	ENSMUSG0000032342	mitochondrial tRNA translation optimization 1 Source MGI Symbol Acc MGI 1915541
E03	SBM0686946	ENSMUST00000126627.1	Ndr3	ENSMUSG0000027634	N-myc downstream regulated gene 3 Source MGI Symbol Acc MGI 1352499
E04	SBM0841870	ENSMUST00000164430.6	Nfkb1	ENSMUSG0000028163	nuclear factor of kappa light polypeptide gene enhancer in B cells 1, p105 Source MGI Symbol Acc MGI 97312
E05	SBM1040005	ENSMUST0000022646.8	Nkx3-1	ENSMUSG0000022061	NK3 homeobox 1 Source MGI Symbol Acc MGI 97352
E06	SBM0719826	ENSMUST00000128871.1	Nrip1	ENSMUSG0000048490	nuclear receptor interacting protein 1 Source MGI Symbol Acc MGI 1315213
E07	SBM0716432	ENSMUST00000115409.8	Pdpk1	ENSMUSG0000024122	3-phosphoinositide dependent protein kinase 1 Source MGI Symbol Acc MGI 1338068
E08	SBM0966199	ENSMUST00000137544.1	Pes1	ENSMUSG0000020430	pescadillo ribosomal biogenesis factor 1 Source MGI Symbol Acc MGI 1890613
E09	SBM0723007	ENSMUST0000034560.13	Ppp2r1b	ENSMUSG0000032058	protein phosphatase 2, regulatory subunit A, beta Source MGI Symbol Acc MGI 1920949
E10	SBM0933984	ENSMUST00000141018.1	Prkab1	ENSMUSG0000029513	protein kinase, AMP-activated, beta 1 non-catalytic subunit Source MGI Symbol Acc MGI 1336167
E11	SBM1220566	ENSMUST0000013807.7	Pten	ENSMUSG0000013663	phosphatase and tensin homolog Source MGI Symbol Acc MGI 109583
E12	SBM0775877	ENSMUST00000149930.2	Ptgs1	ENSMUSG0000047250	prostaglandin-endoperoxide synthase 1 Source MGI Symbol Acc MGI 97797
F01	SBM0779402	ENSMUST00000223576.1	Rarb	ENSMUSG0000017491	retinoic acid receptor, beta Source MGI Symbol Acc MGI 97857
F02	SBM0972716	ENSMUST00000121635.6	Rassf1	ENSMUSG0000010067	Ras association (RalGDS/AF-6) domain family member 1 Source MGI Symbol Acc MGI 1928386
F03	SBM0795530	ENSMUST00000168495.1	Rb1	ENSMUSG0000022105	RB transcriptional corepressor 1 Source MGI Symbol Acc MGI 97874
F04	SBM0813238	ENSMUST00000155837.7	Rbm39	ENSMUSG0000027620	RNA binding motif protein 39 Source MGI Symbol Acc MGI 2157953
F05	SBM0699882	ENSMUST0000052068.10	Rbp1	ENSMUSG0000046402	retinol binding protein 1, cellular Source MGI Symbol Acc MGI 97876
F06	SBM1020110	ENSMUST00000228535.1	Scaf11	ENSMUSG0000033228	SR-related CTD-associated factor 11 Source MGI Symbol Acc MGI 1919443
F07	SBM0951985	ENSMUST00000217598.1	Sept7	ENSMUSG0000001833	septin 7 Source MGI Symbol Acc MGI 1335094
F08	SBM1012777	ENSMUST0000057311.3	Sfn	ENSMUSG0000047281	stratifin Source MGI Symbol Acc MGI 1891831
F09	SBM0742478	ENSMUST0000033952.7	Sfrp1	ENSMUSG0000031548	secreted frizzled-related protein 1 Source MGI Symbol Acc MGI 892014
F10	SBM1043637	ENSMUST0000005334.2	Shbg	ENSMUSG0000005202	sex hormone binding globulin Source MGI Symbol Acc MGI 98295

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM0751785	ENSMUST00000020255.7	Slc5a8	ENSMUSG0000020062	solute carrier family 5 (iodide transporter), member 8 Source MGI Symbol Acc MGI 2384916
F12	SBM0977814	ENSMUST00000054002.3	Socs3	ENSMUSG0000053113	suppressor of cytokine signaling 3 Source MGI Symbol Acc MGI 1201791
G01	SBM1075307	ENSMUST00000067230.5	Sox4	ENSMUSG0000076431	SRY (sex determining region Y)-box 4 Source MGI Symbol Acc MGI 98366
G02	SBM0984070	ENSMUST00000020846.7	Srebf1	ENSMUSG0000020538	sterol regulatory element binding transcription factor 1 Source MGI Symbol Acc MGI 107606
G03	SBM0873081	ENSMUST000000213772.1	Stk11	ENSMUSG000003068	serine/threonine kinase 11 Source MGI Symbol Acc MGI 1341870
G04	SBM0989529	ENSMUST00000065388.10	Supt17l	ENSMUSG0000053134	suppressor of Ty 7-like Source MGI Symbol Acc MGI 1919445
G05	SBM1085441	ENSMUST000000203257.1	Tfpi2	ENSMUSG0000029664	tissue factor pathway inhibitor 2 Source MGI Symbol Acc MGI 108543
G06	SBM0744840	ENSMUST000000168825.7	Tgfb11l	ENSMUSG0000030782	transforming growth factor beta 1 induced transcript 1 Source MGI Symbol Acc MGI 102784
G07	SBM0732357	ENSMUST000000155707.2	Timp2	ENSMUSG0000017466	tissue inhibitor of metalloproteinase 2 Source MGI Symbol Acc MGI 98753
G08	SBM1025772	ENSMUST000000132307.1	Timp3	ENSMUSG0000020044	tissue inhibitor of metalloproteinase 3 Source MGI Symbol Acc MGI 98754
G09	SBM0786762	ENSMUST00000000395.7	Tmprss2	ENSMUSG0000000385	transmembrane protease, serine 2 Source MGI Symbol Acc MGI 1354381
G10	SBM0841427	ENSMUST000000108657.3	Trp53	ENSMUSG0000059552	transformation related protein 53 Source MGI Symbol Acc MGI 98834
G11	SBM0825049	ENSMUST000000142058.7	Usp5	ENSMUSG0000038429	ubiquitin specific peptidase 5 (isopeptidase T) Source MGI Symbol Acc MGI 1347343
G12	SBM1079198	ENSMUST000000217017.1	Vegfa	ENSMUSG0000023951	vascular endothelial growth factor A Source MGI Symbol Acc MGI 103178
H01	SBM1220560	ENSMUST000000100497.10	Actb	ENSMUSG0000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	SBM0675336	ENSMUST000000102476.4	B2m	ENSMUSG0000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	SBM1220562	ENSMUST000000117757.8	Gapdh	ENSMUSG0000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	SBM1220563	ENSMUST000000026613.13	Gusb	ENSMUSG0000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	SBM1220564	ENSMUST000000166469.7	Hsp90ab1	ENSMUSG0000023944	heat shock protein 90 alpha (cytosolic), class B member 1 Source MGI Symbol Acc MGI 96247
H06	SBM1218554	Sybr_MGDC	MGDC	Sybr_MGDC	Mouse 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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