

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

Human Androgen Receptor Signaling Targets

Cat. no. 249950 SBHS-142ZA

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	ABCC4	ABHD2	ACSL3	ADAMTS1	ALDH1A3	APPBP2	AR	CAMKK2	CENPN	CITED2	ACKR3	CYP2U1
B	DBI	DHCR24	EAF2	ELK1	ELL2	ENDOD1	ERRF1	OTULINL	FKBP5	FOS	FZD5	GUCY1A1
C	HERC3	HPGD	IGF1R	IGFBP5	IRS2	JUN	KLK2	KLK3	KLK4	KRT8	LIFR	LRIG1
D	LRRFIP2	MAF	MAP7D1	MME	MT2A	MYC	NCAPD3	NDRG1	NFKB1	NFKB2	NFKBIA	NKX3-1
E	ORM1	ORM2	PAK1IP1	PGC	PIAS1	PIK3R3	PMEPA1	PLPP1	RAB4A	REL	RELA	RHOA
F	SEC22C	SGK1	SLC26A2	SLC45A3	SMS	SNAI2	SORD	SP1	SPDEF	SRF	STEAP4	STK39
G	TIPARP	TMPRSS2	TPD52	TRIB1	TSC22D1	TSC22D3	VAPA	VIPR1	WIPI1	ZBTB10	ZBTB16	ZNF189
H	ACTB	B2M	GAPDH	HPRT1	RPLP0	HGDC	QIC	QIC	QIC	PPC	PPC	PPC

Gene table: QuantiNova LNA PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	SBH0603818	ENST00000376887.9	ABCC4	ENSG00000125257	ATP binding cassette subfamily C member 4 Source HGNC Symbol Acc HGNC 55
A02	SBH0028105	ENST00000565066.5	ABHD2	ENSG00000140526	abhydrolase domain containing 2 Source HGNC Symbol Acc HGNC 18717
A03	SBH1219721	ENST00000413316.1	ACSL3	ENSG00000123983	acyl-CoA synthetase long chain family member 3 Source HGNC Symbol Acc HGNC 3570
A04	SBH1219724	ENST00000284984.8	ADAMTS1	ENSG00000154734	ADAM metallopeptidase with thrombospondin type 1 motif 1 Source HGNC Symbol Acc HGNC 217
A05	SBH0001085	ENST00000558869.1	ALDH1A3	ENSG00000184254	aldehyde dehydrogenase 1 family member A3 Source HGNC Symbol Acc HGNC 409
A06	SBH0139311	ENST00000588668.5	APPBP2	ENSG00000062725	amyloid beta precursor protein binding protein 2 Source HGNC Symbol Acc HGNC 622
A07	SBH0056376	ENST00000374690.8	AR	ENSG00000169083	androgen receptor Source HGNC Symbol Acc HGNC 644
A08	SBH0270041	ENST00000392474.6	CAMKK2	ENSG00000110931	calcium/calmodulin dependent protein kinase kinase 2 Source HGNC Symbol Acc HGNC 1470
A09	SBH0056151	ENST00000569461.1	CENPN	ENSG00000166451	centromere protein N Source HGNC Symbol Acc HGNC 30873
A10	SBH0580180	ENST00000367651.4	CITED2	ENSG00000164442	Cbp/p300 interacting transactivator with Glu/Asp rich carboxy-terminal domain 2 Source HGNC Symbol Acc HGNC 1987
A11	SBH0154530	ENST00000272928.4	ACKR3	ENSG00000144476	atypical chemokine receptor 3 Source HGNC Symbol Acc HGNC 23692
A12	SBH0478551	ENST00000508453.1	CYP2U1	ENSG00000155016	cytochrome P450 family 2 subfamily U member 1 Source HGNC Symbol Acc HGNC 20582
B01	SBH0271306	ENST0000054275.5	DBI	ENSG00000155368	diazepam binding inhibitor, acyl-CoA binding protein Source HGNC Symbol Acc HGNC 2690
B02	SBH1219947	ENST00000371269.9	DHCR24	ENSG00000116133	24-dehydrocholesterol reductase Source HGNC Symbol Acc HGNC 2859
B03	SBH0602769	ENST00000451944.2	EAF2	ENSG00000145088	ELL associated factor 2 Source HGNC Symbol Acc HGNC 23115
B04	SBH1219973	ENST00000376983.8	ELK1	ENSG00000126767	ELK1, ETS transcription factor Source HGNC Symbol Acc HGNC 3321
B05	SBH0654522	ENST00000635633.1	ELL2	ENSG00000118985	elongation factor for RNA polymerase II 2 Source HGNC Symbol Acc HGNC 17064
B06	SBH0509559	ENST00000278505.5	ENDOD1	ENSG00000149218	endonuclease domain containing 1 Source HGNC Symbol Acc HGNC 29129
B07	SBH0047426	ENST00000469499.5	ERRF1	ENSG00000116285	ERBB receptor feedback inhibitor 1 Source HGNC Symbol Acc HGNC 18185
B08	SBH0186859	ENST00000513825.1	OTULINL	ENSG00000145569	OTU deubiquitinase with linear linkage specificity like Source HGNC Symbol Acc HGNC 25629
B09	SBH0482535	ENST00000357266.8	FKBP5	ENSG00000096060	FKBP prolyl isomerase 5 Source HGNC Symbol Acc HGNC 3721
B10	SBH1220004	ENST00000554617.1	FOS	ENSG00000170345	Fos proto-oncogene, AP-1 transcription factor subunit Source HGNC Symbol Acc HGNC 3796
B11	SBH1220013	ENST00000295417.4	FZD5	ENSG00000163251	frizzled class receptor 5 Source HGNC Symbol Acc HGNC 4043
B12	SBH0053718	ENST00000443668.6	GUCY1A1	ENSG00000164116	guanylate cyclase 1 soluble subunit alpha 1 Source HGNC Symbol Acc HGNC 4685
C01	SBH0175563	ENST00000407637.5	HERC3	ENSG00000138641	HECT and RLD domain containing E3 ubiquitin protein ligase 3 Source HGNC Symbol Acc HGNC 4876
C02	SBH0084313	ENST00000541923.5	HPGD	ENSG00000164120	15-hydroxyprostaglandin dehydrogenase Source HGNC Symbol Acc HGNC 5154
C03	SBH0201042	ENST00000650285.1	IGF1R	ENSG00000140443	insulin like growth factor 1 receptor Source HGNC Symbol Acc HGNC 5465
C04	SBH1220094	ENST00000233813.5	IGFBP5	ENSG00000115461	insulin like growth factor binding protein 5 Source HGNC Symbol Acc HGNC 5474
C05	SBH0069279	ENST00000375856.5	IRS2	ENSG00000185950	insulin receptor substrate 2 Source HGNC Symbol Acc HGNC 6126
C06	SBH0613340	ENST00000371222.3	JUN	ENSG00000177606	Jun proto-oncogene, AP-1 transcription factor subunit Source HGNC Symbol Acc HGNC 6204
C07	SBH0546811	ENST00000325321.8	KLK2	ENSG00000167751	kallikrein related peptidase 2 Source HGNC Symbol Acc HGNC 6363
C08	SBH1220152	ENST00000598145.1	KLK3	ENSG00000142515	kallikrein related peptidase 3 Source HGNC Symbol Acc HGNC 6364
C09	SBH0263236	ENST00000431178.2	KLK4	ENSG00000167749	kallikrein related peptidase 4 Source HGNC Symbol Acc HGNC 6365
C10	SBH0594835	ENST00000547176.3	KRT8	ENSG00000170421	keratin 8 Source HGNC Symbol Acc HGNC 6446
		ENST00000506		ENSG000000	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBH0373775	990.5	LIFR	113594	LIF receptor alpha Source HGNC Symbol Acc HGNC 6597
C12	SBH0337827	ENST00000383703.3	LRIG1	ENSG00000144749	leucine rich repeats and immunoglobulin like domains 1 Source HGNC Symbol Acc HGNC 17360
D01	SBH0090422	ENST00000416425.5	LRRFIP2	ENSG00000093167	LRR binding FLII interacting protein 2 Source HGNC Symbol Acc HGNC 6703
D02	SBH0429226	ENST00000326043.5	MAF	ENSG00000178573	MAF bZIP transcription factor Source HGNC Symbol Acc HGNC 6776
D03	SBH0092821	ENST00000373150.8	MAP7D1	ENSG00000116871	MAP7 domain containing 1 Source HGNC Symbol Acc HGNC 25514
D04	SBH0586051	ENST00000462745.5	MME	ENSG00000196549	membrane metalloendopeptidase Source HGNC Symbol Acc HGNC 7154
D05	SBH0576025	ENST00000245185.6	MT2A	ENSG00000125148	metallothionein 2A Source HGNC Symbol Acc HGNC 7406
D06	SBH0426145	ENST00000524013.1	MYC	ENSG00000136997	MYC proto-oncogene, bHLH transcription factor Source HGNC Symbol Acc HGNC 7553
D07	SBH0353569	ENST00000534548.6	NCAPD3	ENSG00000151503	non-SMC condensin II complex subunit D3 Source HGNC Symbol Acc HGNC 28952
D08	SBH0580332	ENST00000519228.5	NDRG1	ENSG00000104419	N-myc downstream regulated 1 Source HGNC Symbol Acc HGNC 7679
D09	SBH1220264	ENST00000651197.1	NFKB1	ENSG00000109320	nuclear factor kappa B subunit 1 Source HGNC Symbol Acc HGNC 7794
D10	SBH1220265	ENST00000652277.1	NFKB2	ENSG00000077150	nuclear factor kappa B subunit 2 Source HGNC Symbol Acc HGNC 7795
D11	SBH0552847	ENST00000216797.9	NFKBIA	ENSG00000100906	NFKB inhibitor alpha Source HGNC Symbol Acc HGNC 7797
D12	SBH0389757	ENST00000523261.1	NKX3-1	ENSG00000167034	NK3 homeobox 1 Source HGNC Symbol Acc HGNC 7838
E01	SBH0254137	ENST00000477456.1	ORM1	ENSG00000229314	orosomucoid 1 Source HGNC Symbol Acc HGNC 8498
E02	SBH0237206	ENST00000431067.3	ORM2	ENSG00000228278	orosomucoid 2 Source HGNC Symbol Acc HGNC 8499
E03	SBH0582878	ENST00000379568.4	PAK1IP1	ENSG00000111845	PAK1 interacting protein 1 Source HGNC Symbol Acc HGNC 20882
E04	SBH0453838	ENST00000356667.8	PGC	ENSG00000096088	progastricin Source HGNC Symbol Acc HGNC 8890
E05	SBH0637544	ENST00000562190.1	PIAS1	ENSG00000033800	protein inhibitor of activated STAT 1 Source HGNC Symbol Acc HGNC 2752
E06	SBH0170264	ENST00000425892.2	PIK3R3	ENSG00000117461	phosphoinositide-3-kinase regulatory subunit 3 Source HGNC Symbol Acc HGNC 8981
E07	SBH0616723	ENST00000347215.8	PMEP1	ENSG00000124225	prostate transmembrane protein, androgen induced 1 Source HGNC Symbol Acc HGNC 14107
E08	SBH0446710	ENST00000520263.1	PLPP1	ENSG00000067113	phospholipid phosphatase 1 Source HGNC Symbol Acc HGNC 9228
E09	SBH1217036	ENST00000618010.4	RAB4A	ENSG00000168118	RAB4A, member RAS oncogene family Source HGNC Symbol Acc HGNC 9781
E10	SBH1220362	ENST00000394479.3	REL	ENSG00000162924	REL proto-oncogene, NF-kB subunit Source HGNC Symbol Acc HGNC 9954
E11	SBH1220363	ENST00000532999.5	RELA	ENSG00000173039	RELA proto-oncogene, NF-kB subunit Source HGNC Symbol Acc HGNC 9955
E12	SBH1220368	ENST00000366691.4	RHOU	ENSG00000116574	ras homolog family member U Source HGNC Symbol Acc HGNC 17794
F01	SBH0178805	ENST00000423701.6	SEC22C	ENSG00000093183	SEC22 homolog C, vesicle trafficking protein Source HGNC Symbol Acc HGNC 16828
F02	SBH0624710	ENST00000528577.5	SGK1	ENSG00000118515	serum/glucocorticoid regulated kinase 1 Source HGNC Symbol Acc HGNC 10810
F03	SBH0003134	ENST00000286298.4	SLC26A2	ENSG00000155850	solute carrier family 26 member 2 Source HGNC Symbol Acc HGNC 10994
F04	SBH0266082	ENST00000460934.1	SLC45A3	ENSG00000158715	solute carrier family 45 member 3 Source HGNC Symbol Acc HGNC 8642
F05	SBH0584916	ENST00000404933.7	SMS	ENSG00000102172	spermine synthase Source HGNC Symbol Acc HGNC 11123
F06	SBH1220410	ENST00000642303.1	SNAI2	ENSG00000019549	snail family transcriptional repressor 2 Source HGNC Symbol Acc HGNC 11094
F07	SBH0480845	ENST00000559230.5	SORD	ENSG00000140263	sorbitol dehydrogenase Source HGNC Symbol Acc HGNC 11184
F08	SBH1220419	ENST00000426431.2	SP1	ENSG00000185591	Sp1 transcription factor Source HGNC Symbol Acc HGNC 11205
F09	SBH0346728	ENST00000544425.2	SPDEF	ENSG00000124664	SAM pointed domain containing ETS transcription factor Source HGNC Symbol Acc HGNC 17257
F10	SBH0145486	ENST00000265354.6	SRF	ENSG00000112658	serum response factor Source HGNC Symbol Acc HGNC 11291

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBH0097109	ENST00000301959.9	STEAP4	ENSG00000127954	STEAP4 metalloreductase Source HGNC Symbol Acc HGNC 21923
F12	SBH0265584	ENST00000487143.5	STK39	ENSG00000198648	serine/threonine kinase 39 Source HGNC Symbol Acc HGNC 17717
G01	SBH0489455	ENST00000461166.5	TIPARP	ENSG00000163659	TCDD inducible poly(ADP-ribose) polymerase Source HGNC Symbol Acc HGNC 23696
G02	SBH0284865	ENST00000455813.1	TMPRSS2	ENSG00000184012	transmembrane serine protease 2 Source HGNC Symbol Acc HGNC 11876
G03	SBH0153972	ENST00000448733.3	TPD52	ENSG00000076554	tumor protein D52 Source HGNC Symbol Acc HGNC 12005
G04	SBH0657190	ENST00000520847.1	TRIB1	ENSG00000173334	tribbles pseudokinase 1 Source HGNC Symbol Acc HGNC 16891
G05	SBH0404111	ENST00000261489.6	TSC22D1	ENSG00000102804	TSC22 domain family member 1 Source HGNC Symbol Acc HGNC 16826
G06	SBH0621912	ENST00000315660.8	TSC22D3	ENSG00000157514	TSC22 domain family member 3 Source HGNC Symbol Acc HGNC 3051
G07	SBH0056067	ENST00000583475.1	VAPA	ENSG00000101558	VAMP associated protein A Source HGNC Symbol Acc HGNC 12648
G08	SBH0649359	ENST00000439731.5	VIPR1	ENSG00000114812	vasoactive intestinal peptide receptor 1 Source HGNC Symbol Acc HGNC 12694
G09	SBH0518264	ENST00000586815.1	WIPI1	ENSG00000070540	WD repeat domain, phosphoinositide interacting 1 Source HGNC Symbol Acc HGNC 25471
G10	SBH0495750	ENST00000426744.5	ZBTB10	ENSG00000205189	zinc finger and BTB domain containing 10 Source HGNC Symbol Acc HGNC 30953
G11	SBH0436564	ENST00000535379.1	ZBTB16	ENSG00000109906	zinc finger and BTB domain containing 16 Source HGNC Symbol Acc HGNC 12930
G12	SBH0012466	ENST00000259395.4	ZNF189	ENSG00000136870	zinc finger protein 189 Source HGNC Symbol Acc HGNC 12980
H01	SBH1220543	ENST00000646664.1	ACTB	ENSG00000075624	actin beta Source HGNC Symbol Acc HGNC 132
H02	SBH1220550	ENST00000558401.6	B2M	ENSG00000166710	beta-2-microglobulin Source HGNC Symbol Acc HGNC 914
H03	SBH1220545	ENST00000396861.5	GAPDH	ENSG00000111640	glyceraldehyde-3-phosphate dehydrogenase Source HGNC Symbol Acc HGNC 4141
H04	SBH1220546	ENST00000298556.8	HPRT1	ENSG00000165704	hypoxanthine phosphoribosyltransferase 1 Source HGNC Symbol Acc HGNC 5157
H05	SBH1220553	ENST00000546989.5	RPLP0	ENSG00000089157	ribosomal protein lateral stalk subunit P0 Source HGNC Symbol Acc HGNC 10371
H06	SBH1218553	Sybr_HGDC	HGDC	Sybr_HGDC	Human 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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