



## Human B-Cell Receptor Signaling Primer Library

**Catalog No:** HBCR-1  
**Supplier:** RealTimePrimers  
**Lot No:** XXXXX  
**Supplied as:** solid  
**Stability:** store at -20°C

### Description

Contains 88 primer sets directed against B-cell receptor signaling genes and 8 housekeeping gene primer sets. Provided in a 96-well microplate (20 ul - 10 uM). Perform up to 100 PCR arrays (based on 20 ul assay volume per reaction). Just add cDNA template and SYBR green master mix.

### Gene List:

- AKT1 v-akt murine thymoma viral oncogene homolog 1
- ATF2 activating transcription factor 2
- BCAR1 breast cancer anti-estrogen resistance 1
- BCL10 B-cell CLL/lymphoma 10
- BCL6 B-cell CLL/lymphoma 6
- BLK BLK proto-oncogene, Src family tyrosine kinase
- BLNK B-cell linker
- BRAF B-Raf proto-oncogene, serine/threonine kinase
- BTK Bruton agammaglobulinemia tyrosine kinase
- CAMK2A calcium/calmodulin-dependent protein kinase II alpha
- CARD10 caspase recruitment domain family, member 10
- CBL Cbl proto-oncogene, E3 ubiquitin protein ligase
- CD19 CD19 molecule
- CD22 CD22 molecule
- PTPRC protein tyrosine phosphatase, receptor type C
- CD79A CD79a molecule, immunoglobulin-associated alpha
- CD79B CD79b molecule, immunoglobulin-associated beta
- CD81 CD81 molecule
- CDC42 cell division cycle 42
- CHUK conserved helix-loop-helix ubiquitous kinase
- CR2 complement component (3d/Epstein Barr virus) receptor 2
- CREB1 cAMP responsive element binding protein 1
- CRK v-crck avian sarcoma virus CT10 oncogene homolog
- CRKL v-crck avian sarcoma virus CT10 oncogene homolog-like
- ELK1 ELK1, member of ETS oncogene family
- ETS1 v-ets avian erythroblastosis virus E26 oncogene homolog 1
- FOXO1 forkhead box O1
- FYN FYN proto-oncogene, Src family tyrosine kinase
- GAB2 GRB2-associated binding protein 2
- GRB2 growth factor receptor-bound protein 2
- GSK3A glycogen synthase kinase 3 alpha
- GSK3B glycogen synthase kinase 3 beta
- GTF2I general transcription factor III
- HCLS1 hematopoietic cell-specific Lyn substrate 1
- HRAS Harvey rat sarcoma viral oncogene homolog
- IKBKB inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase beta
- IKBKG inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase gamma
- ILF2 interleukin enhancer binding factor 2
- INPP5D inositol polyphosphate-5-phosphatase, 145kDa
- JUN jun proto-oncogene
- LCK LCK proto-oncogene, Src family tyrosine kinase
- LYN LYN proto-oncogene, Src family tyrosine kinase
- MALT1 MALT1 paracaspase
- MAP2K1 mitogen-activated protein kinase kinase 1
- MAP2K2 mitogen-activated protein kinase kinase 2
- MAP2K6 mitogen-activated protein kinase kinase 6
- MAP3K7 mitogen-activated protein kinase kinase kinase 7
- MAPK1 mitogen-activated protein kinase 1
- MAPK14 mitogen-activated protein kinase 14
- MAPK3 mitogen-activated protein kinase 3



- MAPK4 mitogen-activated protein kinase 4
- MAPK8 mitogen-activated protein kinase 8
- MAPK9 mitogen-activated protein kinase 9
- MAX MYC associated factor X
- MYC v-myc avian myelocytomatosis viral oncogene homolog
- NCK1 NCK adaptor protein 1
- NFATC1 nuclear factor of activated T-cells 1
- NFATC2 nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2
- NFATC3 nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 3
- NFKB1 nuclear factor of kappa light polypeptide gene enhancer in B-cells 1
- NFKBIA nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha
- PDPK1 3-phosphoinositide dependent protein kinase 1
- PDPK2 PDPK2 protein
- PIK3AP1 phosphoinositide-3-kinase adaptor protein 1
- PIK3R1 phosphoinositide-3-kinase, regulatory subunit 1 (alpha)
- PIP5K1A phosphatidylinositol-4-phosphate 5-kinase, type I, alpha
- PIP5K1B phosphatidylinositol-4-phosphate 5-kinase, type I, beta
- PIP5K1C phosphatidylinositol-4-phosphate 5-kinase, type I, gamma
- PLCG1 phospholipase C, gamma 1
- PLCG2 phospholipase C, gamma 2 (phosphatidylinositol- specific)
- PRKCB protein kinase C beta
- PTPN11 protein tyrosine phosphatase, non-receptor type 11
- PTPN18 protein tyrosine phosphatase, non-receptor type 18 (brain-derived)
- PTPN6 protein tyrosine phosphatase, non-receptor type 6
- RAC1 ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1)
- RAC2 ras-related C3 botulinum toxin substrate 2 (rho family, small GTP binding protein Rac2)
- RAF1 Raf-1 proto-oncogene, serine/threonine kinase
- RAPGEF1 Rap guanine nucleotide exchange factor (GEF) 1
- RASGRP3 RAS guanyl releasing protein 3 (calcium and DAG- regulated)
- RELA v-rel avian reticuloendotheliosis viral oncogene homolog A
- RPS6KA1 ribosomal protein S6 kinase, 90kDa, polypeptide 1
- SH3BP2 SH3-domain binding protein 2
- SHC1 SHC (Src homology 2 domain containing) transforming protein 1
- SOS1 son of sevenless homolog 1 (Drosophila)
- SYK spleen tyrosine kinase
- TEC tec protein tyrosine kinase
- VAV1 vav 1 guanine nucleotide exchange factor
- VAV2 vav 2 guanine nucleotide exchange factor
- ACTB Actin, beta
- B2M Beta-2-microglobulin
- GAPD Glyceraldehyde-3-phosphate dehydrogenase
- GUSB Glucuronidase, beta
- HPRT1 Hypoxanthine phosphoribosyltransferase 1
- PGK Phosphoglycerate kinase 1
- PPIA Peptidylprolyl isomerase A
- RPL13A Ribosomal protein L13a

#### Usage

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