



## Human Focal Adhesion Signaling Primer Library

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

### Description

Contains 88 primer sets directed against focal adhesion 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:

- ACTG1 actin, gamma 1
- ACTN1 actinin, alpha 1
- AKT1 v-akt murine thymoma viral oncogene homolog 1
- AKT2 v-akt murine thymoma viral oncogene homolog 2
- AKT3 v-akt murine thymoma viral oncogene homolog 3
- ARAF V-raf murine sarcoma 3611 viral oncogene homolog
- ARHGAP5 Rho GTPase activating protein 5
- BCAR1 breast cancer anti-estrogen resistance 1
- BRAF V-raf murine sarcoma viral oncogene homolog B1
- CAPN1 calpain 1, (mu/l) large subunit
- CTNNB1 Catenin (cadherin-associated protein), beta 1, 88kDa
- CAV1 caveolin 1, caveolae protein, 22kDa
- CAV2 caveolin 2
- CAV3 caveolin 3
- CDC42 cell division cycle 42 (GTP binding protein, 25kDa)
- CRK v-crck sarcoma virus CT10 oncogene homolog (avian)
- DOCK1 dedicator of cytokinesis 1
- ELK1 ELK1, member of ETS oncogene family
- FARP2 FERM, RhoGEF and pleckstrin domain protein 2
- FLNA filamin A, alpha
- FYN FYN oncogene related to SRC, FGR, YES
- GNB2L1 Guanine nucleotide binding protein (G protein), beta polypeptide 2-like 1
- GSK3B glycogen synthase kinase 3 beta
- ILK integrin-linked kinase
- JUN jun proto-oncogene
- MAP2K1 mitogen-activated protein kinase kinase 1
- MAP2K2 mitogen-activated protein kinase kinase 2
- MAP2K3 mitogen-activated protein kinase kinase 3
- MAP2K5 mitogen-activated protein kinase kinase 5
- MAP2K6 mitogen-activated protein kinase kinase 6
- MAPK1 mitogen-activated protein kinase 1
- MAPK4 mitogen-activated protein kinase 4
- MAPK6 mitogen-activated protein kinase 6
- MAPK7 mitogen-activated protein kinase 7
- MAPK8 mitogen-activated protein kinase 8
- MAPK9 mitogen-activated protein kinase 9
- MAPK12 mitogen-activated protein kinase 12
- MYL6 myosin, light chain 6, alkali, smooth muscle and non-muscle
- MYLK myosin light chain kinase
- MYLK2 myosin light chain kinase 2
- PAK1 p21 protein (Cdc42/Rac)-activated kinase 1
- PAK2 p21 protein (Cdc42/Rac)-activated kinase 2
- PAK3 p21 protein (Cdc42/Rac)-activated kinase 3
- PAK4 p21 protein (Cdc42/Rac)-activated kinase 4
- PAK6 p21 protein (Cdc42/Rac)-activated kinase 6
- PAK7 p21 protein (Cdc42/Rac)-activated kinase 7
- PARVB parvin, beta
- PDPK1 3-phosphoinositide dependent protein kinase-1
- PIK3CA phosphoinositide-3-kinase, catalytic, alpha polypeptide
- PIK3CB phosphoinositide-3-kinase, catalytic, beta polypeptide
- PIK3CD phosphoinositide-3-kinase, catalytic, delta polypeptide



- PIK3CG phosphoinositide-3-kinase, catalytic, gamma polypeptide
- PIK3R1 phosphoinositide-3-kinase, regulatory subunit 1 (alpha)
- PIK3R2 phosphoinositide-3-kinase, regulatory subunit 2 (beta)
- PIK3R4 phosphoinositide-3-kinase, regulatory subunit 4
- PIK3R5 phosphoinositide-3-kinase, regulatory subunit 5
- PIP5K1C phosphatidylinositol-4-phosphate 5-kinase, type I, gamma
- PPP1R12A protein phosphatase 1, regulatory subunit 12A
- PTEN phosphatase and tensin homolog
- PTK2 PTK2 protein tyrosine kinase 2
- PTK2B Protein tyrosine kinase 2 beta
- PXN paxillin
- RAC1 ras-related C3 botulinum toxin substrate 1
- RAC3 ras-related C3 botulinum toxin substrate 3
- RAF1 V-raf-1 murine leukemia viral oncogene homolog 1
- RAP1A RAP1A, member of RAS oncogene family
- RAP1B RAP1B, member of RAS oncogene family
- RAPGEF1 Rap guanine nucleotide exchange factor (GEF) 1
- RHOA ras homolog family member A
- RHOB ras homolog family member B
- ROCK1 Rho-associated, coiled-coil containing protein kinase 1
- ROCK2 Rho-associated, coiled-coil containing protein kinase 2
- S1PR1 sphingosine-1-phosphate receptor 1
- S1PR2 sphingosine-1-phosphate receptor 2
- S1PR3 sphingosine-1-phosphate receptor 3
- S1PR4 sphingosine-1-phosphate receptor 4
- S1PR5 sphingosine-1-phosphate receptor 5
- SHC1 SHC (Src homology 2 domain containing) transforming protein 1
- SHC3 SHC (Src homology 2 domain containing) transforming protein 3
- SOS1 son of sevenless homolog 1 (Drosophila)
- SPHK1 sphingosine kinase 1
- SPHK2 sphingosine kinase 2
- SRC v-src sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog
- TLN1 talin 1
- VASP vasodilator-stimulated phosphoprotein
- VAV1 vav 1 guanine nucleotide exchange factor
- VCL vinculin
- ZYX zyxin
- 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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