



## Human Insulin Signaling Primer Library

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

### Description

Contains 88 primer sets directed against insulin 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
- AKT2 v-akt murine thymoma viral oncogene homolog 2
- EGR1 early growth response 1
- EIF4E eukaryotic translation initiation factor 4E
- EIF4EBP1 eukaryotic translation initiation factor 4E binding protein 1
- ELK1 ELK1, member of ETS oncogene family
- ENPP1 ectonucleotide pyrophosphatase/phosphodiesterase 1
- FLOT1 flotillin 1
- FLOT2 flotillin 2
- FOS FBJ murine osteosarcoma viral oncogene homolog
- FOXO1 Forkhead box O1
- FOXO3 Forkhead box O3
- GAB1 GRB2-associated binding protein 1
- GRB10 growth factor receptor-bound protein 10
- GRB14 growth factor receptor-bound protein 14
- GRB2 growth factor receptor-bound protein 2
- GSK3A glycogen synthase kinase 3 alpha
- GSK3B glycogen synthase kinase 3 beta
- GYS1 glycogen synthase 1 (muscle)
- GYS2 glycogen synthase 2 (liver)
- HRAS v-Ha-ras Harvey rat sarcoma viral oncogene homolog
- INPPL1 inositol polyphosphate phosphatase-like 1
- IRS1 insulin receptor substrate 1
- IRS2 insulin receptor substrate 2
- IRS4 insulin receptor substrate 4
- JUN jun proto-oncogene
- LIPE lipase, hormone-sensitive
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- MAP2K1 mitogen-activated protein kinase kinase 1
- MAP2K2 mitogen-activated protein kinase kinase 2
- MAP2K3 mitogen-activated protein kinase kinase 3
- MAP2K4 mitogen-activated protein kinase kinase 4
- MAP2K5 mitogen-activated protein kinase kinase 5
- MAP2K6 mitogen-activated protein kinase kinase 6
- MAPK1 mitogen-activated protein kinase 1
- MAPK10 mitogen-activated protein kinase 10
- MAPK12 mitogen-activated protein kinase 12
- MAPK3 mitogen-activated protein kinase 3
- MAPK6 mitogen-activated protein kinase 6
- MAPK7 mitogen-activated protein kinase 7
- MAPK8 mitogen-activated protein kinase 8
- MAPK9 mitogen-activated protein kinase 9
- MTOR Mechanistic target of rapamycin (serine/threonine kinase)
- PDPK1 3-phosphoinositide dependent protein kinase-1
- PFKL phosphofructokinase, liver
- PIK3AP1 Phosphoinositide-3-kinase adaptor protein 1
- PIK3C3 phosphoinositide-3-kinase, class 3
- 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)
- PRKAA1 protein kinase, AMP-activated, alpha 1 catalytic subunit



- PRKAA2 protein kinase, AMP-activated, alpha 2 catalytic subunit
- PRKCA protein kinase C, alpha
- PRKCB1 Data not found
- PRKCD protein kinase C, delta
- PRKCH protein kinase C, eta
- PRKCI protein kinase C, iota
- PRKCZ protein kinase C, zeta
- PTEN phosphatase and tensin homolog
- PTPN1 protein tyrosine phosphatase, non-receptor type 1
- PTPRF protein tyrosine phosphatase, receptor type, F
- 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 v-raf-1 murine leukemia viral oncogene homolog 1
- RHEB Ras homolog enriched in brain
- RPS6KA1 ribosomal protein S6 kinase, 90kDa, polypeptide 1
- RPS6KA2 ribosomal protein S6 kinase, 90kDa, polypeptide 2
- RPS6KA3 ribosomal protein S6 kinase, 90kDa, polypeptide 3
- RPS6KA4 ribosomal protein S6 kinase, 90kDa, polypeptide 4
- RPS6KA5 ribosomal protein S6 kinase, 90kDa, polypeptide 5
- RPS6KB1 ribosomal protein S6 kinase, 70kDa, polypeptide 1
- RPS6KB2 ribosomal protein S6 kinase, 70kDa, polypeptide 2
- RRAD Ras-related associated with diabetes
- SGK1 serum/glucocorticoid regulated kinase 1
- SGK2 serum/glucocorticoid regulated kinase 2
- SGK3 serum/glucocorticoid regulated kinase 3
- SHC1 SHC (Src homology 2 domain containing) transforming protein 1
- SHC2 SHC (Src homology 2 domain containing) transforming protein 2
- SHC3 SHC (Src homology 2 domain containing) transforming protein 3
- SOS1 son of sevenless homolog 1
- SOS2 son of sevenless homolog 2
- SRF serum response factor (c-fos serum response element-binding transcription factor)
- TRIB3 tribbles homolog 3 (Drosophila)
- TSC1 tuberous sclerosis 1
- TSC2 tuberous sclerosis 2
- ACTB Actin, beta
- B2M Beta-2-microglobulin
- GAPDH Glyceraldehyde-3-phosphate dehydrogenase
- GUSB Glucuronidase, beta
- HPRT1 Hypoxanthine phosphoribosyltransferase 1
- PGK1 Phosphoglycerate kinase 1
- PPIA Peptidylprolyl isomerase A
- RPL13A Ribosomal protein L13a

#### Usage

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