



## Human JAK/STAT Signaling Primer Library

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

### Description

Contains 88 primer sets directed against Jak/Stat 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
- AKT3 v-akt murine thymoma viral oncogene homolog 3 (protein kinase B, gamma)
- BRCA1 breast cancer 1, early onset
- CD4 CD4 molecule
- CREBBP CREB binding protein
- EGF epidermal growth factor
- EGFR epidermal growth factor receptor
- EP300 E1A binding protein p300
- EPO erythropoietin
- EPOR erythropoietin receptor
- ERBB2 v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian)
- FGF2 fibroblast growth factor 2 (basic)
- FOS FBJ murine osteosarcoma viral oncogene homolog
- GH1 growth hormone 1
- GHR growth hormone receptor
- GRB2 growth factor receptor-bound protein 2
- HRAS v-Ha-ras Harvey rat sarcoma viral oncogene homolog
- IFNA1 interferon, alpha 1
- IFNA2 interferon, alpha 2
- IFNAR1 interferon (alpha, beta and omega) receptor 1
- IFNB1 interferon, beta 1, fibroblast
- IFNG interferon, gamma
- IFNGR1 interferon gamma receptor 1
- IGF1R insulin-like growth factor 1 receptor
- IL10 interleukin 10
- IL1B interleukin 1, beta
- IL1R1 interleukin 1 receptor, type I
- IL2RA interleukin 2 receptor, alpha
- IL4R interleukin 4 receptor
- IL6 interleukin 6 (interferon, beta 2)
- IL8 interleukin 8
- IRF9 interferon regulatory factor 9
- JAK1 Janus kinase 1
- JAK2 Janus kinase 2
- JAK3 Janus kinase 3
- JUN jun proto-oncogene
- KIT v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog
- KRAS v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog
- MAP2K1 mitogen-activated protein kinase kinase 1
- MAP2K4 mitogen-activated protein kinase kinase 4
- MAP2K6 mitogen-activated protein kinase kinase 6
- MAPK1 mitogen-activated protein kinase 1
- MAPK3 mitogen-activated protein kinase 3
- MCM5 minichromosome maintenance complex component 5
- MYC V-myc myelocytomatosis viral oncogene homolog (avian)
- NRAS neuroblastoma RAS viral (v-ras) oncogene homolog
- PIAS1 protein inhibitor of activated STAT, 1
- PIAS2 protein inhibitor of activated STAT, 2
- PIAS3 protein inhibitor of activated STAT, 3
- PIAS4 protein inhibitor of activated STAT, 4
- PIK3CA phosphoinositide-3-kinase, catalytic, alpha polypeptide
- PIK3CB phosphoinositide-3-kinase, catalytic, beta polypeptide
- PIK3CD phosphoinositide-3-kinase, catalytic, delta polypeptide
- PIK3R1 phosphoinositide-3-kinase, regulatory subunit 1 (alpha)
- PIK3R2 phosphoinositide-3-kinase, regulatory subunit 2 (beta)
- PRL prolactin



- PRLR prolactin receptor
- PSMA3 proteasome (prosome, macropain) subunit, alpha type, 3
- PSMB5 proteasome (prosome, macropain) subunit, beta type, 5
- PSMC4 proteasome (prosome, macropain) 26S subunit, ATPase, 4
- PSMC5 proteasome (prosome, macropain) 26S subunit, ATPase, 5
- PSMD4 proteasome (prosome, macropain) 26S subunit, non- ATPase, 4
- PTPN11 protein tyrosine phosphatase, non-receptor type 11
- RAF1 v-raf-1 murine leukemia viral oncogene homolog 1
- RAN RAN, member RAS oncogene family
- SHC1 SHC (Src homology 2 domain containing) transforming protein 1
- SMAD3 SMAD family member 3
- SMAD4 SMAD family member 4
- SOCS1 suppressor of cytokine signaling 1
- SOCS2 suppressor of cytokine signaling 2
- SOCS3 suppressor of cytokine signaling 3
- SOS1 son of sevenless homolog 1 (Drosophila)
- SP1 Sp1 transcription factor
- SRC v-src sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog (avian)
- STAM signal transducing adaptor molecule (SH3 domain and ITAM motif) 1
- STAT1 signal transducer and activator of transcription 1, 91kDa
- STAT2 signal transducer and activator of transcription 2, 113kDa
- STAT3 signal transducer and activator of transcription 3 (acute-phase response factor)
- STAT4 signal transducer and activator of transcription 4
- STAT5B signal transducer and activator of transcription 5B
- STAT6 signal transducer and activator of transcription 6, interleukin-4 induced
- SUMO1 SMT3 suppressor of mif two 3 homolog 1 (*S. cerevisiae*)
- THPO thrombopoietin
- TNFRSF1A tumor necrosis factor receptor superfamily, member 1A
- TNFRSF1B tumor necrosis factor receptor superfamily, member 1B
- TYK2 tyrosine kinase 2
- VEGFA vascular endothelial growth factor A
- 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 (cyclophilin A)
- RPL13A ribosomal protein L13a

#### Usage

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