



## Human TGF Beta Signaling Primer Library

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

### Description

Contains 88 primer sets directed against TGF beta signaling genes and 8 housekeeping genes. 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:

- ACVR1 Activin A receptor, type I
- ACVR1B Activin A receptor, type IC
- ACVR1C Activin A receptor, type IB
- ACVR2A Activin A receptor, type IIA
- ACVR2B Activin A receptor, type IIB
- AMH Anti-Mullerian hormone
- AMHR2 Anti-Mullerian hormone receptor, type II
- BMP1 Bone morphogenetic protein 1
- BMP10 Bone morphogenetic protein 10
- BMP15 Bone morphogenetic protein 15
- BMP2 Bone morphogenetic protein 2
- BMP3 Bone morphogenetic protein 3
- BMP4 Bone morphogenetic protein 4
- BMP5 Bone morphogenetic protein 5
- BMP6 Bone morphogenetic protein 6
- BMP7 Bone morphogenetic protein 7
- BMPER BMP binding endothelial regulator
- BMPR1B Bone morphogenetic protein receptor, type IB
- BMPR2 Bone morphogenetic protein receptor, type II (serine/threonine kinase)
- CDH1 Cadherin 1, type 1, E-cadherin
- CHRD Chordin
- CREBBP CREB binding protein
- CUL1 Cullin 1
- DCN Decorin
- E2F4 E2F transcription factor 4, p107/p130-binding
- EP300 E1A binding protein p300
- FNTA Farnesyltransferase, CAAX box, alpha
- FST Follistatin
- GDF10 Growth differentiation factor 10
- GDF11 Growth differentiation factor 11
- GDF15 Growth differentiation factor 15
- GDF2 Growth differentiation factor 2
- GDF3 Growth differentiation factor 3
- GDF5 Growth differentiation factor 5
- GDF7 Growth differentiation factor 7
- GDF9 Growth differentiation factor 9
- HIPK2 Homeodomain interacting protein kinase 2
- IFNG Interferon, gamma
- IL17F Interleukin 17F
- IL6 Interleukin 6 (interferon, beta 2)
- INHA Inhibin, alpha
- INHBA Inhibin, beta A
- INHBB Inhibin, beta B
- INHBC Inhibin, beta C
- INHBE Inhibin, beta E
- LEFTY1 Left-right determination factor 1
- LEFTY2 Left-right determination factor 2
- LTBP1 Latent transforming growth factor beta binding protein 1
- LTBP2 Latent transforming growth factor beta binding protein 2
- LTBP3 Latent transforming growth factor beta binding protein 3
- LTBP4 Latent transforming growth factor beta binding protein 4
- MAP3K7 Mitogen-activated protein kinase kinase kinase 7
- MAPK1 Mitogen-activated protein kinase 1
- MAPK3 Mitogen-activated protein kinase 3
- MSTN Myostatin
- NODAL Nodal homolog (mouse)
- NOG Noggin
- PPP2CA Protein phosphatase 2, catalytic subunit, alpha isozyme
- PPP2CB Protein phosphatase 2, catalytic subunit, beta isozyme
- RBL1 Retinoblastoma-like 1
- RBL2 Retinoblastoma-like 2
- RBX1 Ring-box 1, E3 ubiquitin protein ligase
- RHOA Ras homolog family member A
- ROCK1 Rho-associated, coiled-coil containing protein kinase 1



- ROCK2 Rho-associated, coiled-coil containing protein kinase 2
- SKP1 S-phase kinase-associated protein 1
- SMAD1 SMAD family member 1
- SMAD2 SMAD family member 2
- SMAD3 SMAD family member 3
- SMAD4 SMAD family member 4
- SMAD5 SMAD family member 5
- SMAD6 SMAD family member 6
- SMAD7 SMAD family member 7
- SMAD9 SMAD family member 9
- SMURF1 SMAD specific E3 ubiquitin protein ligase 1
- SMURF2 SMAD specific E3 ubiquitin protein ligase 2
- SP1 Sp1 transcription factor
- STUB1 STIP1 homology and U-Box containing protein 1
- TFDP1 Transcription factor Dp-1
- TGFA Transforming growth factor, alpha
- TGFB1 Transforming growth factor, beta 1
- TGFB2 Transforming growth factor, beta 2
- TGFB3 Transforming growth factor, beta 3
- TGFBR1 Transforming growth factor, beta receptor 1
- TGFBR2 Transforming growth factor, beta receptor II
- TGFBR3 Transforming growth factor, beta receptor III
- TGFBRAP1 Transforming growth factor, beta receptor associated protein 1
- TNF Tumor necrosis 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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