



## Human Th1 and Th2 Cell Differentiation Primer Library

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

### Description

Contains 88 primer sets directed against Th1 and Th2 differentiation 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:

- CD247 CD247 molecule
- CD3D CD3d molecule, delta (CD3-TCR complex)
- CD3E CD3e molecule, epsilon (CD3-TCR complex)
- CD3G CD3g molecule, gamma (CD3-TCR complex)
- CD4 CD4 molecule
- CHUK conserved helix-loop-helix ubiquitous kinase
- DLL1 delta-like 1 (Drosophila)
- DLL3 delta-like 3 (Drosophila)
- DLL4 delta-like 4 (Drosophila)
- FOS FBJ murine osteosarcoma viral oncogene homolog
- GATA3 GATA binding protein 3
- HLA-DMA major histocompatibility complex, class II, DM alpha
- HLA-DMB major histocompatibility complex, class II, DM beta
- HLA-DOA major histocompatibility complex, class II, DO alpha
- HLA-DOB major histocompatibility complex, class II, DO beta
- HLA-DPA1 major histocompatibility complex, class II, DP alpha 1
- HLA-DPB1 major histocompatibility complex, class II, DP beta 1
- HLA-DQA1 major histocompatibility complex, class II, DQ alpha 1
- HLA-DQA2 major histocompatibility complex, class II, DQ alpha 2
- HLA-DQB1 major histocompatibility complex, class II, DQ beta 1
- HLA-DRA major histocompatibility complex, class II, DR alpha
- HLA-DRB1 major histocompatibility complex, class II, DR beta 1
- HLA-DRB3 major histocompatibility complex, class II, DR beta 3
- HLA-DRB4 major histocompatibility complex, class II, DR beta 4
- HLA-DRB5 major histocompatibility complex, class II, DR beta 5
- IFNG interferon, gamma
- IFNGR1 interferon gamma receptor 1
- IFNGR2 interferon gamma receptor 2 (interferon gamma transducer 1)
- 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
- IL12A interleukin 12A
- IL12B interleukin 12B
- IL12RB1 interleukin 12 receptor, beta 1
- IL12RB2 interleukin 12 receptor, beta 2
- IL13 interleukin 13
- IL2 interleukin 2
- IL2RA interleukin 2 receptor, alpha
- IL2RB interleukin 2 receptor, beta
- IL2RG interleukin 2 receptor, gamma
- IL4 interleukin 4
- IL4R interleukin 4 receptor
- IL5 interleukin 5
- JAK1 Janus kinase 1
- JAK2 Janus kinase 2
- JAK3 Janus kinase 3
- JUN jun proto-oncogene
- LAT linker for activation of T cells
- LCK LCK proto-oncogene, Src family tyrosine kinase
- MAF v-maf avian musculoaponeurotic fibrosarcoma oncogene homolog
- MAML1 mastermind-like 1 (Drosophila)
- MAML2 mastermind-like 2 (Drosophila)
- MAML3 mastermind-like 3 (Drosophila)
- MAPK1 mitogen-activated protein kinase 1
- MAPK10 mitogen-activated protein kinase 10
- MAPK11 mitogen-activated protein kinase 11



- MAPK12 mitogen-activated protein kinase 12
- MAPK13 mitogen-activated protein kinase 13
- MAPK14 mitogen-activated protein kinase 14
- MAPK3 mitogen-activated protein kinase 3
- MAPK8 mitogen-activated protein kinase 8
- MAPK9 mitogen-activated protein kinase 9
- NFATC1 nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1
- NFATC2 nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2
- 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
- NFKBIB nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, beta
- NFKBIE nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilon
- NOTCH1 notch 1
- NOTCH2 notch 2
- NOTCH3 notch 3
- PLCG1 phospholipase C, gamma 1
- PLCG2 phospholipase C, gamma 2 (phosphatidylinositol-specific)
- PPP3CA protein phosphatase 3, catalytic subunit, alpha isozyme
- PPP3CB protein phosphatase 3, catalytic subunit, beta isozyme
- PPP3CC protein phosphatase 3, catalytic subunit, gamma isozyme
- PPP3R1 protein phosphatase 3, regulatory subunit B, alpha
- PPP3R2 protein phosphatase 3, regulatory subunit B, beta
- PRKCQ protein kinase C, theta
- RBPJ recombination signal binding protein for immunoglobulin kappa J region
- RBPJL recombination signal binding protein for immunoglobulin kappa J region- like
- RELA v-rel avian reticuloendotheliosis viral oncogene homolog A
- RUNX3 runt-related transcription factor 3
- STAT1 signal transducer and activator of transcription 1, 91kDa
- STAT4 signal transducer and activator of transcription 4
- STAT6 signal transducer and activator of transcription 6, interleukin-4 induced
- TBX21 T-box 21
- TYK2 tyrosine kinase 2
- ZAP70 zeta-chain (TCR) associated protein kinase 70kDa
- 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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