

# Recombinant Human YY1, FLAG-tagged

**Cat. No.** YY1-599H    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

**Species** Human

**Source** E.coli

**Overview** Recombinant YY1 protein was expressed in E. coli as the full-length human protein (accession number NP\_003394) with an N-terminal FLAG tag.

**Description** YY1 (Yin Yang 1) is a transcription factor that belongs to the GLI-Kruppel class of zinc finger transcription factors and is ubiquitously expressed. YY1 is known to have a fundamental role in normal biologic processes such as embryogenesis, differentiation, replication and cellular proliferation. YY1 exerts its effects on genes involved in these processes via its ability to initiate, activate or repress transcription depending upon the context in which it binds. Since expression and function of YY1 are known to be intimately associated with progression through phases of the cell cycle, the physiologic significance of YY1 activity has been applied to models of tumor biology. It can repress and activate a number of gene promoters and direct histone deacetylases (HDACs) and histone acetyltransferases (HATs). YY1 is known to facilitate silencing by the Polycomb protein complex.

**Predicted MolecularMass** ~46 kDa

**Application Notes** Recombinant YY1 protein is suitable for use in in vitro transcription assays. We

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recommend to start with a range of protein concentrations (e.g. 5 ng, 50 ng, and 500 ng) to determine the optimal amount needed for each in vitro transcription assay.

**Storage**

Recombinant proteins in solution are temperature sensitive and should be stored at -80°C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.

**OfficialSymbol**

YY1

## GENE INFORMATION

**Gene Name**

YY1 YY1 transcription factor [ Homo sapiens ]

**Synonyms**

YY1; YY1 transcription factor; DELTA; NF-E1; UCRBP; INO80S; YIN-YANG-1; transcriptional repressor protein YY1; YY-1; Yin and Yang 1 protein; INO80 complex subunit S; delta transcription factor; Yin and yang 1; CF1; NF E1; NFE1; OTTHUMP00000197459; TYY1\_HUMAN; UCR motif DNA binding protein; Ying Yang 1; YY 1

**Gene ID**

7528

**mRNA Refseq**

NM\_003403

**Protein Refseq**

NP\_003394

**MIM**

600013

**UniProt ID**

P25490

**Chromosome  
Location**

14q

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|                 |                                                                                                                                                                                                                                                                              |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Pathway</b>  | Delta-Notch Signaling Pathway; E2F transcription factor network; Notch signaling pathway; Notch-mediated HES/HEY network; Notch-mediated HES/HEY network; Signaling events mediated by HDAC Class I; mTOR signaling pathway; p53 pathway                                     |
| <b>Function</b> | DNA binding; RNA binding; four-way junction DNA binding; protein binding; sequence-specific DNA binding transcription factor activity; transcription coactivator activity; transcription corepressor activity; transcription regulatory region DNA binding; zinc ion binding |

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