

## Recombinant Full Length Human E2F1 Protein, GST-tagged

Cat. No. E2F1-4107HF Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Human E2F1 full-length ORF (AAH50369.1, 1 a.a. - 437 a.a.) recombinant protein with GST-tag at N-terminal.


**Species** Human

**Source** In Vitro Cell Free System

**ProteinLength** 437 amino acids

**Description** The protein encoded by this gene is a member of the E2F family of transcription factors. The E2F family plays a crucial role in the control of cell cycle and action of tumor suppressor proteins and is also a target of the transforming proteins of small DNA tumor viruses. The E2F proteins contain several evolutionally conserved domains found in most members of the family. These domains include a DNA binding domain, a dimerization domain which determines interaction with the differentiation regulated transcription factor proteins (DP), a transactivation domain enriched in acidic amino acids, and a tumor suppressor protein association domain which is embedded within the transactivation domain. This protein and another 2 members, E2F2 and E2F3, have an additional cyclin binding domain. This protein binds preferentially to retinoblastoma protein pRB in a cell-cycle dependent manner. It can mediate both cell proliferation and p53-dependent/independent apoptosis. [provided by RefSeq, Jul 2008]

**Molecular Mass** 74.47 kDa

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**AA Sequence**

MALAGAPAGGPCAPALEALLGAGALRLLDSSQIVIISAAQDASAPPAPTGPAAPAAG  
 PCDPDLLLFATPQAPRPTPSAPRPALGRPPVKRRLDLETDHQYLAESSGPARGRGR  
 HPGKGVKSPGEKSRYETSLNLTTRFLELLSHSADGVVDLNWAAEVLKVQKRRIYDI  
 TNVLEGIQLIAKKSKNHIQWLGSHTTVGVGGRLEGLTQDLRQLQESEQQLDHLMNIC  
 TTQLRLLSEDTDSQRLAYVTCQDLRSIADPAEQMVMVIKAPPETQLQAVDSSNFQI  
 SLKSKQGPIDVFLCPEETVGGISPGKTPSQEVTSEENRATDSATIVSPPPSSPPSSL  
 TTDPSQSLLSLEQEPLLSRMGSLRAPVDEDRLSPLVAADSLLEHVREDFSGLLPEEFI  
 SLSPPEALDYHFGLEEGEGIRDLFDCDFGDLTPLDF

**Applications**

Enzyme-linked Immunoabsorbent Assay  
 Western Blot (Recombinant protein)  
 Antibody Production  
 Protein Array

**Notes** Best use within three months from the date of receipt of this protein.

**Storage** Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer** 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name** E2F1 E2F transcription factor 1 [ Homo sapiens ]

**Official Symbol** E2F1

**Synonyms** E2F1; E2F transcription factor 1; RBBP3; transcription factor E2F1; RBP3; PBR3; RBAP-1; RBBP-3; PRB-binding protein E2F-1; retinoblastoma-binding protein 3; retinoblastoma-associated protein 1; E2F-1; RBAP1;

**Gene ID** 1869

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mRNA Refseq	NM_005225
Protein Refseq	NP_005216
MIM	189971
UniProt ID	Q01094

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