

# Recombinant Full Length Human E2F1 Protein, GST-tagged

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

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| <b>Product Overview</b> | Human E2F1 full-length ORF (AAH50369.1, 1 a.a. - 437 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>ProteinLength</b>    | 437 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | <p>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]</p> |
| <b>Molecular Mass</b>   | 74.47 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>AA Sequence</b>      | MALAGAPAGGPCAPALEALLGAGALRLLDSSQIVIISAAQDASAPPAPTGPAAPAAG<br>PCDPDLLLFATPQAPRPTPSAPRPALGRPPVKRRDLLETDHQYLAESSGPARGRGR<br>HPGKGVKSPGEKSRYETSLNLTTKRFLLELLSHSADGVVDLNWAAEVLKVQKRRIYDI<br>TNVLEGIQLIAKKSKNHIQWLGSHTTVGVGGRLEGLTQDLRQLQESEQQLDHLNMNIC<br>TTQLRLLSEDTDSQRLAYVTCQDLRSIADPAEQMVMVIKAPPETQLQAVDSSSENFQI<br>SLKSKQGPIDVFLCPEETVGGISPGKTPSQEVTSEEENRATDSATIVSPPPSSPPSSL<br>TTDPSQSLLSLEQEPLLSRMGSLRAPVDEDRLSPLVAADSLEHVREDFSGLLPEEFI<br>SLSPPEALDYHFGLEEGEGIRDLFDCDFGDLTPLDF |
| <b>Applications</b>     | Enzyme-linked Immunoabsorbent Assay<br>Western Blot (Recombinant protein)<br>Antibody Production<br>Protein Array                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Notes</b>            | Best use within three months from the date of receipt of this protein.                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Storage</b>          | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Storage Buffer</b>   | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Gene Name</b>        | E2F1 E2F transcription factor 1 [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Official Symbol</b>  | E2F1                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Synonyms</b>         | E2F1; E2F transcription factor 1; RBBP3; transcription factor E2F1; RBP3; PBR3;<br>RBAP-1; RBBP-3; PRB-binding protein E2F-1; retinoblastoma-binding protein 3;<br>retinoblastoma-associated protein 1; E2F-1; RBAP1;                                                                                                                                                                                                                                                              |
| <b>Gene ID</b>          | 1869                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

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|----------------|-----------|
| mRNA Refseq    | NM_005225 |
| Protein Refseq | NP_005216 |
| MIM            | 189971    |
| UniProt ID     | Q01094    |

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