

## Recombinant Human E2F3, His-tagged

Cat. No. E2F3-12247H    Lot. No. (See product label)

### SPECIFICATION

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| <b>Product Overview</b> | Recombinant Human E2F3 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>ProteinLength</b>    | 1-110a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>      | This gene encodes a member of a small family of transcription factors that function through binding of DP interaction partner proteins. The encoded protein recognizes a specific sequence motif in DNA and interacts directly with the retinoblastoma protein (pRB) to regulate the expression of genes involved in the cell cycle. Altered copy number and activity of this gene have been observed in a number of human cancers. There are pseudogenes for this gene on chromosomes 2 and 17. Alternative splicing results in multiple transcript variants. |
| <b>Storage</b>          | The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Storage Buffer</b>   | 1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 300mM Imidazole and 0.7% Sarcosyl, 15% glycerol.                                                                                                                                                                                                                                                                                                                                                                                          |

### GENE INFORMATION

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| <b>Gene Name</b>           | E2F3 E2F transcription factor 3 [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Official Symbol</b>     | E2F3                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Synonyms</b>            | E2F3; E2F transcription factor 3; transcription factor E2F3; E2F-3; KIAA0075; MGC104598; DKFZp686C18211;                                                                                                                                                                                                                                                                                                                      |
| <b>Gene ID</b>             | 1871                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>mRNA Refseq</b>         | NM_001243076                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Protein Refseq</b>      | NP_001230005                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>MIM</b>                 | 600427                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>UniProt ID</b>          | O00716                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Chromosome Location</b> | 6p22                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Pathway</b>             | Assembly of the pre-replicative complex, organism-specific biosystem; Association of licensing factors with the pre-replicative complex, organism-specific biosystem; Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem; CDC6 association with the ORC:origin complex, organism-specific biosystem; Cell Cycle, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; |
| <b>Function</b>            | DNA binding; core promoter binding; cyclin-dependent protein kinase activity; protein binding; sequence-specific DNA binding transcription factor activity;                                                                                                                                                                                                                                                                   |