

Product datasheet for **SC318877**

E2F1 (NM_005225) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: E2F1 (NM_005225) Human Untagged Clone
Tag: Tag Free
Symbol: E2F1
Synonyms: E2F-1; RBAP1; RBBP3; RBP3
Mammalian Cell Selection: None
Vector: pCMV6-XL6
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_005225 edited
 ATGGCCTTGGCCGGGGCCCTGCGGGCGGCCCATGCGCGCCGGCGCTGGAGGCCCTGCTC
 GGGGCCGGCGCGCTGCGGCTGCTCGACTCCTCGCAGATCGTCATCATCTCCGCCGCGCAG
 GACGCCAGCGCCCGCCGCTCCACCGGCCCGCGGCGCCCGCGCCGCCCCCTGCGAC
 CCTGACCTGCTGCTCTTCGCCACACCGCAGGCGCCCGGCCACACCCAGTGCGCCGCGG
 CCCGCGCTCGGCCGCCCGCGTGAAGCGGAGGCTGGACCTGGAAGTACCATCAGTAC
 CTGGCCGAGAGCAGTGGGCCAGCTCGGGGCAGAGGCCCATCCAGGAAAAGGTGTGAAA
 TCCCCGGGGGAGAAGTACGCTATGAGACCTCACTGAATCTGACCACCAAGCGTTCCTG
 GAGCTGCTGAGCCACTCGGCTGACGGTGTGTCGACCTGAACTGGGCTGCCGAGGTGCTG
 AAGGTGCAGAAGCGGCGCATCTATGACATCACCAACGTCCTTGAGGGCATCCAGCTCATT
 GCCAAGAAGTCCAAGAACCACATCCAGTGGCTGGGCAGCCACACCACAGTGGGCGTCGGC
 GGACGGCTTGAGGGTTGACCCAGGACCTCCGACAGCTGCAGGAGAGCGAGCAGCAGCTG
 GACCACCTGATGAATATCTGTACTACGCAGCTGCGCCTGCTCTCCGAGGACACTGACAGC
 CAGCGCCTGGCCTACGTGACGTGTGAGGACCTTCGTAGCATTGCAGACCCTGCAGAGCAG
 ATGGTTATGGTGATCAAAGCCCCCTGAGACCAGCTCCAAGCCGTGGACTCTTCGGAG
 AACTTTCAGATCTCCCTAAGAGCAAACAAGGCCCGATCGATGTTTTCTGTGCCCTGAG
 GAGACCGTAGGTGGGATCAGCCCTGGGAAGACCCCATCCAGGAGGTCACTTCTAAGGAG
 GAGAACAGGGCCACTGACTCTGCCACCATAGTGTACCACCACCATCATCTCCCCCTCA
 TCCCTCACACAGATCCCAGCCAGTCTCTACTCAGCCTGGAGCAAGAACCCTGTTGTC
 CGGATGGGCAGCCTGCGGGCTCCCGTGGACGAGGACCCGCTGTCCCGCTGGTGGCGGCC
 GACTCGCTCCTGGAGCATGTGCGGGAGGACTTCTCCGGCCTCCTCCCTGAGGAGTTCATC
 AGCCTTCCCCACCCACGAGGCCCTCGACTACCACTTCGGCCTCGAGGAGGGCGAGGGC
 ATCAGAGACCTCTTCGACTGTGACTTTGGGGACCTCACCCCTGGATTCTGA

Restriction Sites: Please inquire
ACCN: NM_005225



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Insert Size:	2722 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
OTI Annotation:	This clone has been fully sequenced and found one SNP within the protein associated with this reference, NM_005225.2. The SNP changes amino acid from E to K.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_005225.2 , NP_005216.1
RefSeq Size:	2722 bp
RefSeq ORF:	1314 bp
Locus ID:	1869
UniProt ID:	Q01094
Cytogenetics:	20q11.22
Domains:	E2F_TDP
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Bladder cancer, Cell cycle, Chronic myeloid leukemia, Glioma, Melanoma, Non-small cell lung cancer, Pancreatic cancer, Pathways in cancer, Prostate cancer, Small cell lung cancer

Gene Summary:

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]