

## Product datasheet for **SC128153**

### E2F5 (NM\_001951) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	E2F5 (NM_001951) Human Untagged Clone
Tag:	Tag Free
Symbol:	E2F5
Synonyms:	E2F-5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC128153 sequence for NM_001951 edited (data generated by NextGen Sequencing)

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ATGGCGGCGGCANNCCCGCAGCTCGGGCCAGCAGGCGCCGGCAGGGCAGGGCAGGGC
CAGCGGCCGCGCCGCGCAGCCTCCGAGGCGCAAGCCCGCAGCCGCCCGCCGCGCAG
CTCGGGGGCGCGGGGGGGCGCAGCAGCAGGCACGAGAAGAGCCTGGGGCTGCTACTACC
AAGTTCGTGTCGCTGCTGCAGGAGGCCAAGGACGGCGTTCTGGATCTCAAAGCGGCTGCT
GATACTTTGGCTGTGAGGCAAAAAAGGAGAATTTATGATATCACCAATGTCTTAGAGGGA
ATTGACTTGATTGAAAAAAGTCAAAAAACAGTATCCAGTGAAAGGTGTAGGTGCTGGC
TGTAATACTAAAGAAGTCATAGATAGATTAAGATATCTTAAAGCTGAAATTGAAGATCTA
GAACTGAAGGAAAGAGAAGTTCATAGATAGATTAAGATATCTTAAAGCTGAAATTGAAGATCTA
GTGATGGACGATTCCATTAATAATAGATTTTCTATGTAACCTCATGAAGACATCTGTAAT
TGCTTTAATGGTGATACACTTTTGGCCATTCAGGCACCTTCTGGTACACAAGTGGAGGTA
CCCATTCCAGAAATGGGTGAGAATGGACAAAAGAAATACCAGATCAATCTAAAGAGTCAT
TCAGGACCTATCCATGTGCTGCTTATAAATAAAGAGTCGAGTTTCATCTAAGCCCGTGGTT
TTTCTGTTCCCCACCTGATGACCTCACACAGCCTTCTCCAGTCCTTGACTCCAGTG
ACTCCACAGAAATCCAGCATGGCAACTCAAAATCTGCCTGAGCAACATGTCTCTGAAAGA
AGCCAGGCTCTGCAGCAGACATCAGCTACAGATATATCTTCCAGCAGGATCTATTAGTGA
GATATCATTGATGAGTTAATGTCTTCTGACGTGTTTCTCTCTTAAGGCTTTCTCCTACC
CGGCAGATGACTACAACCTTAATTTAGATGATAACGAAGGAGTTTGTGATCTGTTTGAT
GTCCAGATACTAAATTATTAG

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Clone variation with respect to NM\_001951.3  
13 g=>n;14 a=>n;15 g=>n;132 c=>g



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_001951 unedited  
 TTCGGAATTTGTAATACGACTCTACTATAGGGCGGCCGCGAATCGGCACCAGGAAGCGGC  
 CGCAGTGGAGCCGACCCGGCAGGTGGCCGCGGGCGGGCCGGCGAGCGAAAGTGCCGGG  
 GGCCCCGACCACCGGGGCGGGACCGGATGGCGGCGGCAGAGCCCGGAGCTCGGGCCA  
 GCAGGCGCCGGCAGGGCAGGGGACGGCCAGCGCCGCCCGCAGCCTCCGACGGCGCA  
 AGCCCCGACCCGCCCGCCGCGCAGCTCGGGGGCGGGGGGGCGGCAGCAGCAGGCA  
 CGAGAAGAGCCTGGGGCTGCTCACTACCAAGTTCTGTGCTGCTGCAGGAGGCCAAGGA  
 CGGCGTTCTGGATCTCAAAGCGGCTGCTGATACTTTGGCTGTGAGGCAAAAAAGGAGAAT  
 TTATGATATACCAATGTCTTAGAGGGAATTGACTTGATTGAAAAAAGTCAAAAAACAG  
 TATCCAGTGGAAAGGTGTANGTCTGGCTGTAATACTAAAGAAGTCATAGATAGATTAAG  
 ATATCTTAAAGCTGAAATTGAAGATCTAGAAGTGAAGGAAAGAGAAGTTCATCAGCAGAA  
 GTTGTGGCTACAGCAAAGCATCAAAAATGTGATGGACGATTCCATTAATAATAGATTTTC  
 CTATGAACTCATGAAGACATCTGNATTGCTNTAATGGTGATACACTTTTGGCCATTCA  
 GGCACCTTCTGGTACACAAGTACCCCATCCANAATGGGTGAGAATGACAANAG  
 AATACCAGATCAATCTAAGAATCATTGACACTATCCTGTGCTGCTTATAATAAAGATCC  
 ATTCATCTAGCCGTGGTTTTCTGTCCCCACTGATGACTACCAAGNCTNCTCCAGTCT  
 GACTCCCGGACTCCCAATCCGCTGGCACTCAAAGTGC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_001951 unedited  
 NTAATTCAGNACGCGCCGATTCTANGATCAGTTTTTTTTTTTTTTTTTTTGAATGTTTT  
 ATACAATTTTATTTTAAAAATCTTGTTAATGTACAGGCATTGGCACATTTTAAAAACAA  
 ACTACATAAACAGATCTTTCCTATAACCTAGGAAAGTGAATGTCAGAAGTCAACAAAAT  
 GTGATAAACTTAAAGTGCTAAAACAGAAGGCACCTCACAAAATCTGTTCACTGAAACAGT  
 TATATATCCTCGTTTACATCCTTCACTTTACAAGTGGCAGTGAACGTCTGTTTGGATAGA  
 AGGACATACAGAAATACAGGCAGTTTAGTGGCAGTAAAAATATAAGACAAGTAATGAGTC  
 CTTGGCCAACTTGTTTTGATGACCTGTAGTGTCTTTAACTTTCTCTTAAGAAGAAA  
 AAACAGAAGGATTCACAATTAGAAGAAAAGTTGAAATCCAGAATATAGTTACTTTTGGGA  
 GTGGGGACGTTTGTGGATATTAATCACTTATCCCCTAAAGCAATCAGAGCCCTTTGTTT  
 TTATGGTTGAAGTTTTGTGAAGTAAAGAAAGTATTAGGGAAGAACACTTCAGAATCAGTG  
 AACTAAAAAAGGTGTTACATTCTTATTTTAAATATTTAGGTTATTAAGAAGGCCAAAAT  
 GTTACCCAGTTAGAGGTAGATAACAGTCCCAAGTTTTCTGGAATCTAAAATTTAATAT  
 CCTGGACATCAAAAAAATCACAAACTCCTTCGGTATCCTCCAAAATAAAGGTTGGAGTC  
 CTCGGGCCGGGTAAAGGGAAAGCCCTAAAAAAGGAAACCCCGAAGAACATTACTCA  
 CCAATGAAATCTCCACCAAAAAATCCGGGTGAAAAAATAACCTGGAAGTATGTCTGCTG  
 CCGAACCTGGGTTTCTT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_001951

**Insert Size:**

1700 bp

**OTI Disclaimer:** 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](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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:**

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\\_001951.2](#), [NP\\_001942.1](#)

**RefSeq Size:** 1752 bp

**RefSeq ORF:** 1041 bp

**Locus ID:** 1875

**UniProt ID:** [Q15329](#)

**Cytogenetics:** 8q21.2

**Domains:** E2F\_TDP

**Protein Families:** Druggable Genome, Transcription Factors

**Protein Pathways:** Cell cycle, TGF-beta signaling pathway

**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 evolutionarily conserved domains that are present 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 is differentially phosphorylated and is expressed in a wide variety of human tissues. It has higher identity to E2F4 than to other family members. Both this protein and E2F4 interact with tumor suppressor proteins p130 and p107, but not with pRB. Alternative splicing results in multiple variants encoding different isoforms. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).