

## Product datasheet for **MR222646**

### **E2f3 (NM\_010093) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	E2f3 (NM_010093) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	E2f3
Synonyms:	E2f3a; E2F3b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR222646 representing NM\_010093  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGAAAGGGGATCCAGCCCGCCTGGAGCAGTACCTGGTGACCGCCGGGGTGGGGAGGGGGCGGCTG  
 TCGTCGCCGCCGCGCTGCAGCCTCCATGGACAAAAGGGCACTGCTAGCCAGCCCGGCTTCGCCGCCGC  
 CGCCGCCCGGGCACGTACATCCAGATCCTCACTACGAACCTTCCACCACGTCCTGTGCCACCTCCCTC  
 CAAAGTGGCGCCCTGACCGCCGGCCCCCTTCTCCCAAGTGTCCCGGCACGGAGCCGGCCCGCAGCAGCC  
 TCTACACCACGCCACAAGGACCTCCAGCAGAGTCGGGCTGCTGCAGCAGCCACCAGCACCAGGACGCGG  
 CGGCGCGGTGGCCACCGCAAAGCGAAGGCTGGAAGTGGGCGAGAGTGGCCATCAGTACCTCTCAGAT  
 GGTCTAAAGACCCCAAGGGCAAAGGAAGAGCTGCACTACGGAGTCCCGATAGTCCAAAACTCCAAAT  
 CTCCTCAGAAAAACCGGTATGATACGTCCTCGGTCTGCTACCAAGAAGTTCATTCAGCTCCTGAG  
 CCAGTCTCTGATGGGGTCTGGATCTGAACAAGGCAGCAGAGGTGCTCAAGGTGAGAAGAGGAGGATT  
 TACGACATCACCAACGTGCTGGAAGGCATCCACCTCATTAAAGAAGTCTAAGAACAACGTCCAGTGGA  
 TGGGCTGCAGTCTGTCTGAGGATGGGGCATGCTGGCCAGTGTCAAGGCCTGTCCAAAGAAGTGACTGA  
 GCTCAGTCAGGAAGAGAAGAAATTAGATGAGCTGATCCAAAGCTGTACCTGGACCTCAAAGTGTAAAC  
 GAGGATTCAGAGAATCAAAGTTAGCTTATGTTACATATCAAGATATTCGAAAAATTAGTGGCCTTAAAG  
 ACCAACTGTTATAGTTGTGAAAGCCCTCCAGAAACGAGACTTGAAGTGCCTGACTCAATAGAGAGCCT  
 ACAATCCATTTGGCAAGTACCAAGGGCCATTGAGGTTTACTTGTGTCCAGAAGACGGAAACACAC  
 AGACCCATGAAAAACAAATAACCAAGACCACAATGGGAATATCCCAAGCCCACTTCCAAAGACTTGGCTT  
 CTAACAACCTCAGGACATAGTACTGCTCGGTTTCTACAGCAAACCTCTCTCTGGCCTCCCGACCCAA  
 CCTTTTACAGCAGACTGAGGACCAATCCCGTCCAACTTGAAGGACCTTTTGTGAACCTTACTGCCTCCC  
 CTGCTCCAAGAGGACTACCTGCTGAGCCTGGGGAGGAAGAGGGCATCAGTGACCTCTTCGATGCCTATG  
 ATTTGGAAAAGCTGCCTCTGGTGGAGGACTTCATGTGTAGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR222646 representing NM\_010093  
 Red=Cloning site Green=Tags(s)

MRKGIQPALEQYLVTAGGGEGAAVVAAAAASMDKRALLASPGFAAAAAPGTIYIQLTTNPSTTSCATSL  
 QSGALTAGPLLPVPGTEPAASSLYTTPQGPSSRVLLQPPAPGRGGGGPPAKRRELGESGHQYLS  
 GLKTPKGGRAALRSPDSPKTPKSPSEKTRYDTSLLTKKFIQLLSQSPDGVLDLNKAAEVLKVQKRRI  
 YDITNVLEGIHLIKKSKNNVQWMCSEDDGMLAQCGLSKEVTELSQEEKLDLDELISQCTLDLKL  
 EDSENQRLAYVTYQDIRKISGLKDQTVIVVKAPPETRLVPSIESLQIHLASTQGPPIEVYLCPEETETH  
 RPMKTNQDHNGNIPKPTSKDLASNNSGHSDCSVSTANLSPLASPNLLQQTEDQIPSNLEGPVFNLLPP  
 LLQEDYLLSLGEEEGISDLFDAYDLEKLPLVEDFMCS

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9034\\_g04.zip](https://cdn.origene.com/chromatograms/mm9034_g04.zip)

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_010093

**ORF Size:** 1371 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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

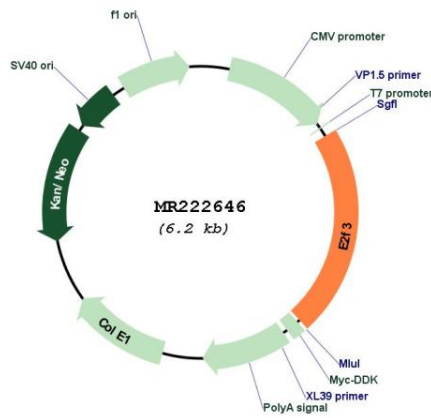
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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\\_010093.3, NP\\_034223.1](#)  
**RefSeq Size:** 5106 bp  
**RefSeq ORF:** 1374 bp  
**Locus ID:** 13557  
**UniProt ID:** [O35261](#)  
**Cytogenetics:** 13 A3.2  
**MW:** 49.2 kDa

**Gene Summary:** Transcription activator that binds DNA cooperatively with DP proteins through the E2 recognition site, 5'-TTTC[CG]CGC-3' found in the promoter region of a number of genes whose products are involved in cell cycle regulation or in DNA replication. The DRTF1/E2F complex functions in the control of cell-cycle progression from G1 to S phase. E2F3 binds specifically to RB1 in a cell-cycle dependent manner. Inhibits adipogenesis, probably through the repression of CEBPA binding to its target gene promoters (PubMed:20176812). [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR222646