

## Product datasheet for **MG222646**

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

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	E2f3 (NM_010093) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	E2f3
Synonyms:	E2f3a; E2F3b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG222646 representing NM\_010093  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAGAAAGGGATCCAGCCCGCCTGGAGCAGTACCTGGTGACCGCCGGGGTGGGGAGGGGGCGGCTG  
 TCGTCGCCGCGCGCTGCAGCCTCCATGGACAAAAGGGCACTGCTAGCCAGCCCGGCTTCGCCGCGC  
 CGCCGCCCGGGCACGTACATCCAGATCCTCACTACGAACCTTCCACCACGTCTGTGCCACCTCCCTC  
 CAAAGTGGCGCCCTGACCGCCGGCCCTTCTCCCCAGTGTCCCGGCACGGAGCCGGCCCGCAGCAGCC  
 TCTACACCACGCCACAAGGACCTCCAGCAGAGTCGGGCTGCTGCAGCAGCCACCAGCACCAGGACGCG  
 CGGCGCGGTGGCCACCGCAAAGCGAAGGCTGGAAGTGGGCGAGAGTGGCCATCAGTACCTCTCAGAT  
 GGTCTAAAGACCCCAAGGGCAAAGGAAGAGCTGCACTACGGAGTCCCGATAGTCCAAAACTCCAAAAT  
 CTCCTCAGAAAAACCGGTATGATACGTCCTCGGTCTGCTACCAAGAAGTTCATTCAGCTCCTGAG  
 CCAGTCTCTGATGGGGTCTGGATCTGAACAAGGCAGCAGAGGTGCTCAAGGTGAGAAGAGGAGGATT  
 TACGACATACCAACGTGCTGGAAGGCATCCACCTCATTAAAGAAGAAGTCTAAGAACAACGTCCAGTGGA  
 TGGGCTGCAGTCTGTCTGAGGATGGGGCATGCTGGCCAGTGTCAAGGCTGTCCAAAAGAGTGA  
 GCTCAGTCAGGAAGAGAAGAAATAGATGAGCTGATCCAAAGCTGTACCTGGACCTCAAAGTGTAAAC  
 GAGGATTCAGAGAATCAAAGGTTAGCTTATGTTACATATCAAGATATTCGAAAAATAGTGGCCTTAAAG  
 ACCAACTGTTATAGTTGTGAAAGCCCTCCAGAAACGAGACTTGAAGTGCCTGACTCAATAGAGAGCCT  
 ACAATCCATTTGGCAAGTACCAAGGGCCATTGAGGTTACTTGTGTCCAGAAGACGGAAACACAC  
 AGACCCATGAAAAAAAATAACCAAGACCACAATGGGAATATCCCCAAGCCCACTTCCAAAGACTTGGCTT  
 CTAACAACCTCAGGACATAGTACTGCTCGGTTTCTACAGCAAACCTCTCTCTGCGCTCCCGACCCAA  
 CCTTTTACAGCAGACTGAGGACCAAATCCCGTCCAACTTGAAGGACCTTTTGTGAACCTTACTGCCTCC  
 CTGCTCCAAGAGGACTACCTGCTGAGCCTGGGGAGGAAGAGGGCATCAGTGACCTCTTCGATGCCTATG  
 ATTTGAAAAGCTGCCTCTGGTGGAGGACTTCATGTGTAGT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG222646 representing NM\_010093  
 Red=Cloning site Green=Tags(s)

MRKGIQPALEQYLVTAGGGEGAAVVAAAAASMDKRALLASPGFAAAAAPGTIYIQLTTNPSTTSCATSL  
 QSGALTAGPLLPVPGTEPAASSLYTTPQGPSSRVGLLQPPAPGRGGGGPPAKRRELGESGHQYLS  
 GLKTPKGKGRAALRSPDSPKTPKSPSEKTRYDTSLLTKKFIQLLSQSPDGVLDLNKAAEVLKVQKRRI  
 YDITNVLEGIHLIKKSKNNVQWMGCSLSEGGMLAQCGLSKEVTELSQEEKLDELISCTLDLKLTT  
 EDSENQRLAYVTYQDIRKISGLKDQTVIVVKAPPETRLVPSIESLQIHLASTQGPPIEVYLCPEETETH  
 RPMKTNNQDHNGNIPKPTSKDLASNNSGHSDCSVSTANLSPLASPNLLQQTEDQIPSNLEGPVFNLLPP  
 LLQEDYLLSLGEEEGISDLFDAYDLEKPLVEDFMCS

**TRTRPLE** - GFP Tag - V

**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).

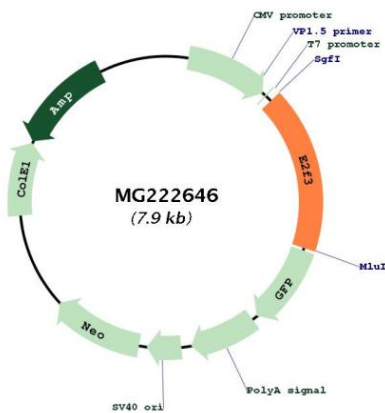
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
  2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
  3. Close the tube and incubate for 10 minutes at room temperature.
  4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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

**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 MG222646