

## Product datasheet for **MG203627**

### E2f6 (NM\_033270) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	E2f6 (NM_033270) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	E2f6
Synonyms:	A1462434; E2F6a; E2F6b; EMA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203627 representing NM_033270 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTCAGCAACGGACGGCGGGAGACTGCCAGCCTGCTGGTGGACCCGGCGCAGGAAACGGTGCGCC  
GGCGTTGCCGGGACCCCATCAACGTGGAAAACCTACTGCCATCAAAAATAAGGATTAATCTAGAAGAAAA  
TGTACAGTATGTGCCATGAGAAAAGCTCTGAAAGTGAAGAGGCCCGTTTGTGTCTACTGGTATAC  
TTAACTCGGAAGTTTATGGATCTCGTCAGATCTGCCCTGGGGCATTCTTGACTTAAACAAAGTTGCCA  
CAAACTGGGTGTTCCGAAGAGGCGAGTGTATGACATCACCAATGTCTTGGATGGCATCGAACTGGTGGA  
AAAGAAATCTAAGAACCACATTCGGTGGATAGGATCTGACCTGAACAACCTTTGGGCGCCACCCAGCAG  
AAGAAGCTGCAGGCAGAGCTCTCCGACCTGTCGGCCATGGAAGACGCCTTGGACGAGTTGATTAAGATT  
GTGCTCAGCAACTGTTGGAGTTAACAGATGACAAGGAAAATGAAAGACTAGCGTATGTAACCTATCAGGA  
TATTCACGGCATTCAAGCTTTCCATGAACAGATTGTCAATTGCAGTGAAGGCTCCAGAGGAAACCAGACTG  
GATGTTCCAGCTCCAGAGAAGATTCTATCACAGTACATATTAGGAGCACCAAAGGACCCATTGATGTAT  
ATTTGTGTGAAGTAGAACAGAACCATTCAAATGGTAAAACCAATGATGGAATAGGAGCCTCTCCATCTAA  
AAGCAGCCATCCACAATGCCAGAGAAAAGAAGACGAGCCTCCTCAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG203627 representing NM\_033270  
 Red=Cloning site Green=Tags(s)

MSQQRARRLPSLLVDPAQETVRRRCRDPINVENLLPSKIRINLEENVQYVSMRKALKVKRPRFDVSLVY  
 LTRKFMDLVRSAPGGILDNLNKVATKLGVRKRVDITNVLDGIELVEKSKNHIRWIGSDLNNFGAAPQQ  
 KKLQAE LSDLSAMEDALDEL IKDCAQQLLEL TDDKENERLAYVTYQDIHGIQAFHEQIVIAVKAPEETRL  
 DVPAPREDSITVHIRSTKGPIDVYLCEVEQNHSNGKTNDGIGASPSKSSHPQCEPEKEDEPPQ

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_033270

**ORF Size:** 816 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\\_033270.1](#)

**RefSeq Size:** 2409 bp

**RefSeq ORF:** 819 bp

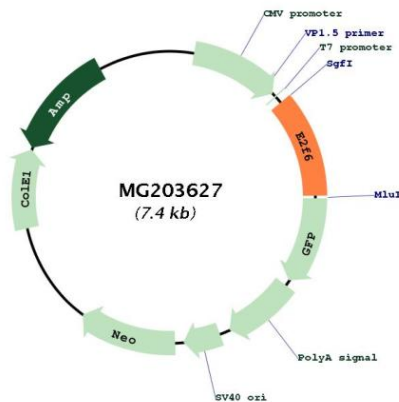
**Locus ID:** 50496

**UniProt ID:** [O54917](#)

**Cytogenetics:** 12 8.04 cM

**Gene Summary:** Inhibitor of E2F-dependent transcription. Binds DNA cooperatively with DP proteins through the E2 recognition site, 5'-TTTC[CG]CGC-3'. Has a preference for the 5'-TTTCCCGC-3' E2F recognition site. E2F6 lacks the transcriptional activation and pocket protein binding domains. Appears to regulate a subset of E2F-dependent genes whose products are required for entry into the cell cycle but not for normal cell cycle progression. May silence expression via the recruitment of a chromatin remodeling complex containing histone H3-K9 methyltransferase activity. Overexpression delays the exit of cells from the S-phase (By similarity). [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG203627