

Product datasheet for **RG233799**

E2F3 (NM_001243076) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: E2F3 (NM_001243076) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: E2F3
Synonyms: E2F-3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG233799 representing NM_001243076
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGGATCGCC

ATGCCCTTACAGCAGCAGGCAAAGCGAAGGCTGGAGCTAGGAGAAAGCGGTCATCAGTACCTCTCAGATG
 GTTTAAAAACCCCAAGGGCAAAGGAAGAGCTGCACTACGAAAGTCCAGATAGTCCAAAAAAGCGG
 GTATGATACGTCTTTGGTCTGCTACCAAGAAGTTCATTCAGCTCCTGAGCCAGTCACCCGATGGGTA
 TTGGATTTGAACAAGGCAGCAGAAGTGCTAAAAGTGCAAAAGAGAAGGATTTATGATATACCAACGTT
 TGAAGGCATCCACCTCATTAAAGAAGTCTAAAACAACGTCCAATGGATGGGCTGCAGTCTGTCTGA
 GGATGGGGCATGCTGGCCAGTGTCAAGGCCTGTCAAAAGAAGTGACCGAGCTCAGTCAGGAAGAGAAG
 AAATTAGATGAAGTATCAAAAGCTGCACCTGGACCTCAAAGTGAACCGAGGATTCAGAGAATCAAA
 GGTTAGCTTATGTTACATATCAAGATATTCGAAAAATTAGTGGCCTTAAAGACCAAAGTGTATAGTTGT
 GAAAGCCCTCCAGAAACAAGACTTGAAGTGCCTGACTCAATAGAGAGCCTACAAATACATTTGGCAAGT
 ACCCAAGGGCCATTGAGGTTTACTTATGTCCAGAAGAGACTGAAACACACAGTCCAATGAAAACAACA
 ACCAAGACCACAATGGGAATATCCCTAAACCCGCTTCAAAGACTTGGCTTCAACCAACTCAGGACATAG
 CGATTGCTCAGTTTCTATGGGAAACCTTCTCCTCTGGCCTCCCCAGCCAACCTTTACAGCAGACTGAG
 GACCAAATTCCTTCAAACCTAGAAGGACCGTTTGTGAACCTTACTGCCTCCCCTGCTGCAAGAGGACTATC
 TCCTGAGCCTCGGGGAGGAGGAAGGCATCAGCGATCTCTTCGATGCTTACGATTTGGAAAAGCTCCCCT
 GGTGAAGACTTCATGTGTAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG233799 representing NM_001243076
 Red=Cloning site Green=Tags(s)

MPLQQQAKRRLELGESEGHQYLSDGLKTPKKGKRAALRSPDSPKKKTRYDTSGLLTKKFIQLLSQSPDGV
 LDLNKAAEVLKVQKRRIYDITNVLEGIHLIKKSKNNVQWMGCSLSEGGMLAQCCQLSKEVTELSQEEK
 KLDELIQSCTLDLKLLEDSENQRLAYVTYQDIRKISGLKDQTVIVVKAPPETRLVEVPSIESLQIHLAS
 TQGPiEVYLCPEETETHSPMKTNQDHNGNIPKASKDLASTNSGHSDCSVSMGNLSPLASPANLLQQTE
 DQIPSNLEGPVFNLLPPLLQEDYLLSLGEEEGISDLFDAYDLEKLPLVEDFMCS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001243076

ORF Size: 1002 bp

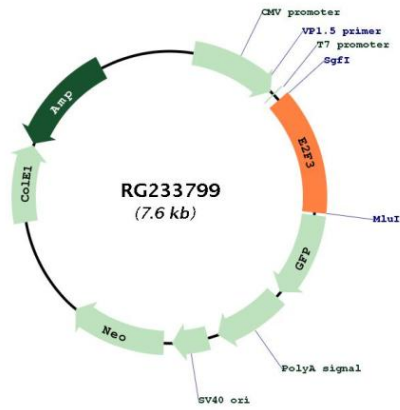
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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 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:	<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:	<u>NM_001243076.2, NP_001230005.1</u>
RefSeq Size:	4443 bp
RefSeq ORF:	1005 bp
Locus ID:	1871
UniProt ID:	<u>O00716</u>
Cytogenetics:	6p22.3
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:	This gene encodes a member of a small family of transcription factors that function through binding of DP interaction partner proteins. The encoded protein recognizes a specific sequence motif in DNA and interacts directly with the retinoblastoma protein (pRB) to regulate the expression of genes involved in the cell cycle. Altered copy number and activity of this gene have been observed in a number of human cancers. There are pseudogenes for this gene on chromosomes 2 and 17. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2013]

Product images:



Circular map for RG233799