

Product datasheet for **RG207699**

E2F4 (NM_001950) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	E2F4 (NM_001950) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	E2F4
Synonyms:	E2F-4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207699 representing NM_001950 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGAGGCCGGCCACAGGCGCCGCCCGCCCGGGCACTCCAAGCCGGCACGAAAAGAGCCTGGGAC
TGCTCACCACCAAGTTCGTGTCCCTTCTGCAGGAGGCCAAGGACGGCGTGTGACCTCAAGCTGGCAGC
TGACACCCTAGCTGTACGCCAGAAGCGGCGGATTTACGACATTACCAATGTTTTGGAAGGTATCGGGCTA
ATCGAGAAAAAGTCCAAGAACAGCATCCAGTGGAAAGGTGTGGGGCTGGCTGCAATACCGGGAGATTG
CTGACAAACTGATTGAGCTCAAGGCAGAGATCGAGGAGCTGCAGCAGCGGAGCAAGAAGTACAGCAGCA
CAAGGTGTGGGTGCAGCAGAGCATCCGGAACGTCACAGAGGACGTGCAGAACAGCTGTTTGGCCTACGTC
ACTCATGAGGACATCTGCAGATGCTTTGCTGGAGATACCCTCTTGCCATCCGGGCCCATCAGGCCACCA
GCCTGGAGGTGCCATCCAGAGGGTCTCAATGGGCAGAAGAAGTACCAGATTACCTGAAGAGTGTGAG
TGGTCCCATGAGGTTCTGCTGGTGAACAAGGAGGCATGGAGCTCACCCCTGTGGCTGTGCCTGTGCCA
CCACCTGAAGATTTGCTCCAGAGCCATCTGCTGTTTCTACACCTCCACCTCTGCCAAGCCTGCCTAG
CCCAGTCCCAGGAAGCCTCACGTCCAAATAGTCCCTCAGCTCACTCCACTGCTGTCCCTGGCAGTGCAGA
AGTCCAGGGAATGGCTGGCCAGCAGCTGAGATCACAGTGAGTGGCGGCCCTGGGACTGATAGCAAGGAC
AGTGGTGAGCTCAGTTCCTCCACTGGGCCAACAACTGGACACCCGGCCACTGCAGTCTTCTGCC
TGCTGGACAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAACAGTAACAGCAGCAGTTCGTC
CGGACCCAAACCTTCTACCTCCTTTGAGCCATCAAGGCAGACCCACAGGTGTTTTGAACTCCCCAAA
GAGCTGTCAGAAATCTTTGATCCACACAGAGTGCATGAGCTCGGAGCTGCTGGAGGAGTTGATGTCT
CAGAAGTGTGGCCCTGTCTCGTCTTTCTCCACCCCGGGAGACCACGATTATCTACAACCTGGA
CGAGAGTGAAGGTGTCTGTGACCTCTTTGATGTGCCTGTTCTCAACCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG207699 representing NM_001950
Red=Cloning site Green=Tags(s)

MAEAGPQAPPPGTPSRHEKSLGLLTTKFVSLLEAKDGVLDLKLAAADTLAVRQKRRIYDITNVLEGIGL
 IEKKSKNISIQWKGVGPNCNTREIADKLIELKAEIEELQQREQELDQHKVWVQQSIRNVTEDVQNSCLAYV
 THEDICRCFAGDTLLAIRAPSGTSLEVPPIPEGLNGQKQYQIHLKSVSGPIEVLLVNKEAWSPPVAVPVP
 PPEDLLQSPSAVSTPPPLPKPALAQSQAEASRPNSPQLTPTAVPGSAEVQGMAGPAAEITVSGGPGTDSKD
 SGELSSLPLGPTTLDTRPLQSSALLDSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSGPNPSTSFEP
 IKADPTGVLELPLK
 ELSEIFDPTRECMSSELLEELMSSEVFAPLLRLSPPPGDHDYIYNLDESEGVCDLFDVPLNL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001950

ORF Size: 1239 bp

OTI Disclaimer: 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_001950.4](#)

RefSeq Size: 2100 bp

RefSeq ORF: 1242 bp

Locus ID: 1874

UniProt ID: [Q16254](#)

Cytogenetics: 16q22.1

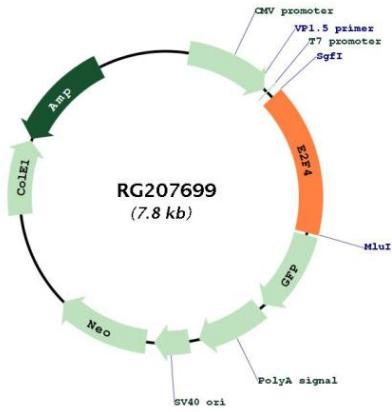
Domains: E2F_TDP

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 evolutionally conserved domains found 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 binds to all three of the tumor suppressor proteins pRB, p107 and p130, but with higher affinity to the last two. It plays an important role in the suppression of proliferation-associated genes, and its gene mutation and increased expression may be associated with human cancer. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG207699