

Product datasheet for RC207699

E2F4 (NM_001950) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	E2F4 (NM_001950) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	E2F4
Synonyms:	E2F-4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC207699 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGAGGCCGGCCACAGGCGCCGCCCCCGGGCACTCCAAGCCGGCACGAAAAGAGCCTGGGAC
TGCTCACCACCAAGTTCGTGTCCCTTCTGCAGGAGGCCAAGGACGGCGTGTGACCTCAAGCTGGCAGC
TGACACCCTAGCTGTACGCCAGAAGCGGCGGATTTACGACATTACCAATGTTTTGGAAGGTATCGGGCTA
ATCGAGAAAAAGTCCAAGAACAGCATCCAGTGGAAAGGTGTGGGCGCTGGCTGCAATACCGGGAGATTG
CTGACAAACTGATTGAGCTCAAGGCAGAGATCGAGGAGCTGCAGCAGCGGAGCAAGAAGTACAGCAGCA
CAAGGTGTGGGTGCAGCAGAGCATCCGGAACGTACAGAGGACGTGCAGAACAGCTGTTTGGCCTACGTC
ACTCATGAGGACATCTGCAGATGCTTTGCTGGAGATACCCTCTTGCCATCCGGGCCCATCAGGCCCA
GCCTGGAGGTGCCATCCAGAGGGTCTCAATGGGCAGAAGAAGTACCAGATTACCTGAAGAGTGTGAG
TGGTCCCATGAGGTTCTGCTGGTGAACAAGGAGGCATGGAGCTCACCCCTGTGGCTGTGCCTGTGCCA
CCACCTGAAGATTTGCTCCAGAGCCATCTGCTGTTTCTACACCTCCACCTCTGCCAAGCCTGCCTAG
CCCAGTCCCAGGAAGCCTCACGTCCAAATAGTCTCAGCTCACTCCACTGCTGTCCCTGGCAGTGCAGA
AGTCCAGGGAATGGCTGGCCAGCAGCTGAGATCACAGTGAGTGGCGGCCCTGGGACTGATAGCAAGGAC
AGTGGTGAGCTCAGTTCACTCCACTGGGCCAACAACTGGACACCCGGCCACTGCAGTCTTCTGCC
TGCTGGACAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAACAGTAACAGCAGCAGTTTCGTC
CGGACCCAAACCTTCTACCTCCTTTGAGCCATCAAGGCAGACCCACAGGTGTTTTGAACTCCCCAAA
GAGCTGTCAGAAATCTTTGATCCACACAGAGTGCATGAGCTCGGAGCTGCTGGAGGAGTTGATGTCT
CAGAAGTGTGGCCCTGTCTCGTCTTTCTCCACCCCGGGAGACCAGATTATCTACAACCTGGA
CGAGAGTGAAGGTGTCTGTGACCTCTTTGATGTGCCTGTTCTCAACCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001950.4](#)

RefSeq Size: 2100 bp

RefSeq ORF: 1242 bp

Locus ID: 1874

UniProt ID: [Q16254](#)

Cytogenetics: 16q22.1

Domains: E2F_TDP

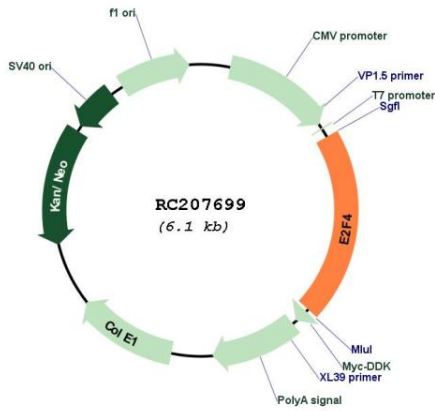
Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: Cell cycle, TGF-beta signaling pathway

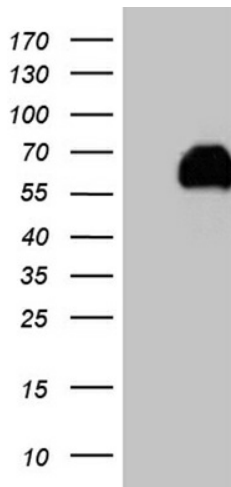
MW: 44 kDa

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]

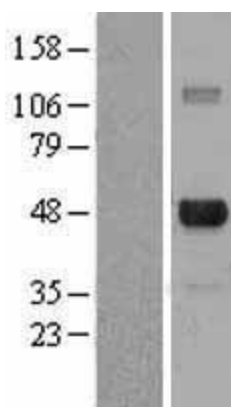
Product images:



Circular map for RC207699



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY E2F4 (Cat# RC207699, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-E2F4 (Cat# [TA811691])(1:500). Positive lysates [LY400717] (100ug) and [LC400717] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY400717]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207699 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).