

Product datasheet for **RC203328**

EIF3S4 (EIF3G) (NM_003755) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EIF3S4 (EIF3G) (NM_003755) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EIF3S4
Synonyms:	eIF3-delta; EIF3-P42; eIF3-p44; EIF3S4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203328 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTACTGGAGACTTTGATTGGAAGCCAGTTGGGCCGACCAGGTGGAGGAGAGGGGGAGGACGACA
 AATGTGTACACGAGCTCCTCAAGGGGATCCCTCTGGCCACAGGTGACACCAGCCAGAGCCAGAGCT
 ACTGCCGGGAGCTCCACTGCCGCTCCCAAGGAGGTATCAACGGAACATAAAGACAGTGACAGAGTAC
 AAGATAGATGAGGATGGCAAGAAGTTCAAGATTGTCCGACCTTCAGGATTGAGACCCGGAAGGCTTCAA
 AGGCTGTCGCAAGGAGGAAGAACTGGAAGAAGTTCGGGAAGTTCAGAGTTTGACCCCCCGGACCCAAATGT
 GGCCACCACCACTGTGAGTACGATGTCTCTATGACGTTTCATCACCAGCAAAGAGGACCTGAAGTCCAG
 GAGGAGGAGGACCTATGAACAACTCAAGGGCCAGAAGATCGTGTCTGCCGCATCTGCAAGGGCGACC
 ACTGGACCACCGCTGCCCTACAAGGATACGCTGGGGCCATGCAGAAGGAGCTGGCCGAGCAGCTGGG
 CCTGTCTACTGGCGAGAAGGAGAAGCTGCCGGGAGAGCTAGAGCCGGTGCAGGCCACGCAGAACAAGACA
 GGGAAGTATGTGCCGCCGAGCTGCGGACGGGGCCAGCCGCCGCGGGGAGTCCATGCAGCCCAACCGCA
 GAGCCGACGACAACGCCACCATCCGTGTACCAACTTGTGAGAGGACACGCGTGAGACCGACCTGCAGGA
 GCTCTTCGGCCTTTTCGGCTCTATCTCCGCTACCTGGCTAAGGACAAGACCACTGGCCAATCCAAG
 GGCTTTGCCTTCATCAGTTCCACGCCGCGAGGATGCTGCGCGTGCCATTGCCGGGTGTCCGGCTTTG
 GCTACGACCACCTCATCTCAACGTGAGTGGGCAAGCCGTCCACCAAC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC203328 protein sequence
 Red=Cloning site Green=Tags(s)

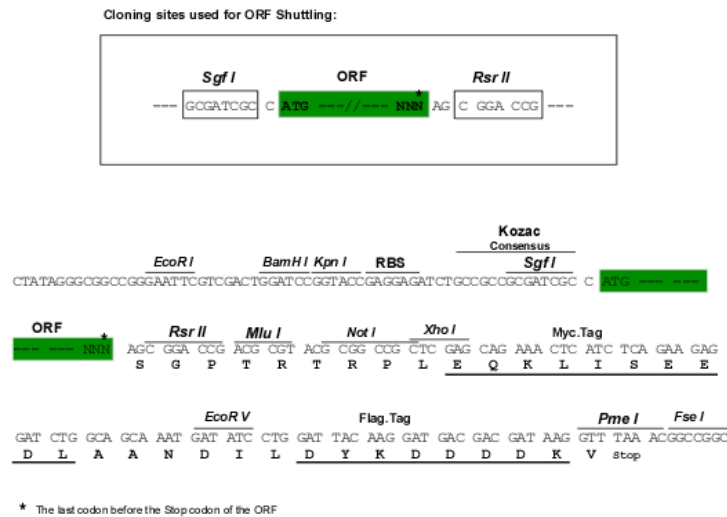
MPTGDFDSKPSWADQVEEEGEDDKCVTSELLKGIPLATGDTSPPELLPGAPLPPPKEVINGNIKTVTEY
 KIDEDGKKFKIVRTFRIETRKASKAVARRKNWKKFGNSEFDPPGPNVATTTVSDDVSMTFITSKEDLNCQ
 EEEDPMNKLKGQKIVSCRICKGDHWTTRCPYKDTLGPMQKELAEQLGLSTGEKEKLPGELEPVQATQNK
 GKYPVPSLRDASRRGESMQPNRRADDNATIRVTNLSEDTRETDLQELFRPFGSISRIYLAKDKTTGQSK
 GFAFISFHRREDAARAIAGVSGFGYDHLILNVEWAKPSTN

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6189_h05.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_003755

ORF Size: 960 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.

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

RefSeq: [NM_003755.5](#)

RefSeq Size: 1127 bp

RefSeq ORF: 963 bp

Locus ID: 8666

UniProt ID: [O75821](#)

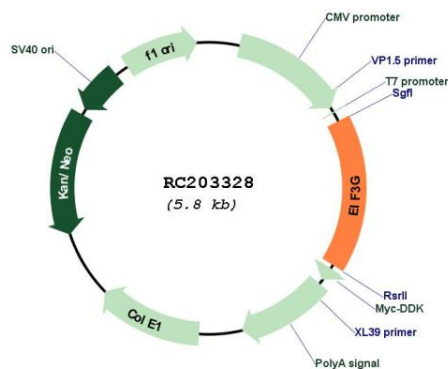
Cytogenetics: 19p13.2

Domains: RRM

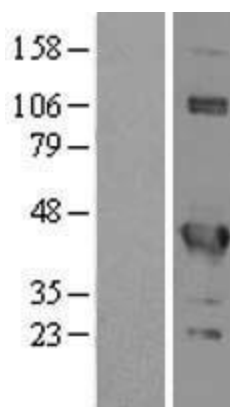
MW: 35.6 kDa

Gene Summary: This gene encodes a core subunit of the eukaryotic translation initiation factor 3 (eIF3) complex, which is required for initiation of protein translation. An N-terminal caspase cleavage product of the encoded protein may stimulate degradation of DNA. A mutation in this gene is associated with narcolepsy. [provided by RefSeq, Jul 2016]

Product images:



Circular map for RC203328



Western blot validation of overexpression lysate (Cat# [LY401233]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203328 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).