

Product datasheet for **MG201715**

Eif3s12 (BC027638) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Eif3s12 (BC027638) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Eif3s12
Synonyms: eIF3K
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201715 representing BC027638
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGATGTTTGAGCAGATGAGAGCGAACGTGGGCAAGTTGCTCAAGGGTATCGACAGGTACCAGTTCA
 ACCCAGCCTTCTCCAGACCACAGTCACTGCCAGATTCTGCTGAAAGCCCTCACCAACCTGCCCCACAC
 CGACTTCACTCTGTGTAATGTATGATCGACCAGGCACATCAAGAAGAGCGGCCATCCGGCAGATCTTG
 TACCTCGGGGACCTGCTGGAGACCTGCCACTTCAAGCCTTCTGGCAAGCCCTGGATGAGAACATGGACC
 TTCTGGAAGGCATAACTGGCTTTGAAGACTCTGTCCGAAAATTTATCTGCCACGTGGTGGGCATCACGTA
 CCAGCACATCGACCGCTGGCTGCTGGCCGAGATGCTCGGAGACCTGACTGACAACAGCTGAAGGTGTGG
 ATGAGCAAGTACGGCTGGAGCGCTGACGAGTCAGGCGAGTCTTCATCTGCAGCCAGGAAGAGAGCATT
 AGCCCAAGAACATCGTGGAGAAGATTGACTTTGACAGTGTGCCAGCATCATGGCCTCTCCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201715 representing BC027638
 Red=Cloning site Green=Tags(s)

MAMFEQMRANVGKLLKIDRYQFNPAFFQTTVTAQILLKALTNLPHDTFLCKCMIDQAHQEERPIRQIL
 YLGDLLTCHFQAFWQALDENMDLLEGITGFEDSVRKFICHVVGITYQHIDRWLLAEMLDLTDNQLKVV
 MSKYGWSADESGQVFICSQEESIKPKNIVEKIDFDSVSSIMASSQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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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>BC027638.1</u>
RefSeq Size:	670 bp
RefSeq ORF:	557 bp
Locus ID:	73830
Cytogenetics:	7 B1
Gene Summary:	Component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for several steps in the initiation of protein synthesis. The eIF-3 complex associates with the 40S ribosome and facilitates the recruitment of eIF-1, eIF-1A, eIF-2:GTP:methionyl-tRNA _i and eIF-5 to form the 43S pre-initiation complex (43S PIC). The eIF-3 complex stimulates mRNA recruitment to the 43S PIC and scanning of the mRNA for AUG recognition. The eIF-3 complex is also required for disassembly and recycling of post-termination ribosomal complexes and subsequently prevents premature joining of the 40S and 60S ribosomal subunits prior to initiation. The eIF-3 complex specifically targets and initiates translation of a subset of mRNAs involved in cell proliferation, including cell cycling, differentiation and apoptosis, and uses different modes of RNA stem-loop binding to exert either translational activation or repression.[UniProtKB/Swiss-Prot Function]