

Product datasheet for **RC236454**

EIF3K (NM_001300992) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: EIF3K (NM_001300992) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: EIF3K
Synonyms: ARG134; EIF3-p28; EIF3S12; HSPC029; M9; MSTP001; PLAC-24; PLAC24; PRO1474; PTD001
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236454 representing NM_001300992
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGATGTTTGAGCAGATGAGAGCCAACGTGGCAAGTTGCTCAAGGGTATCGACAGGTACAATCCTG
AGAACCTGGCCACCCTGGAGCGCTATGTAGAGACGCAGGCCAAGGAAAATGCCTATGATCTGGAAGCCAA
CCTGGCTGTCCTGAAGCTGTACCAGTTCAACCCAGCCTTCTTTTCAGACCACGGTACCGCCAGATCCTG
CTGAAGGCCCTCACCAACTTGCCGCACACAGACTTCACCCTGTGCAAGTGATGATCGACCAGGCACATC
AAGAAGAACGGCCAATCCGACAGATTTGTACCTCGGGGACCTGCTGGAGACCTGCCATTTCCAGGCCTT
CTGGCAAGCCCTGGATGAAAACATGGACCTCTTGGAAAGTATAACTGGCTTTGAAGACTCTGTCCGAAAG
TACAGCCAGCTAAAGGTGTGGATGAGCAAATACGGCTGGAGTCCGACGAGTCCGGGCAGATCTTCATCT
GTAGCCAAAGAAGAGAGCATTAAACCCAAGAACATTGTGGAGAAGATTGACTTTGACAGTGTGTCCAGCAT
CATGGCCTCCTCCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236454 representing NM_001300992
Red=Cloning site Green=Tags(s)

MAMFEQMRANVGKLLKIDRYNPENLATLERYVETQAKENAYDLEANLAVLKLQFNPAFFQTTVTAQIL
LKALTNLPHDFTLCKMIDQAHQEERPIRQILYLDLLETCHFQAFWQALDENMDLLEGITGFEDSVRK
YSQKLVWMSKYGWSADESGQIFICSQEESIKPNIVEKIDFDSVSSIMASSQ

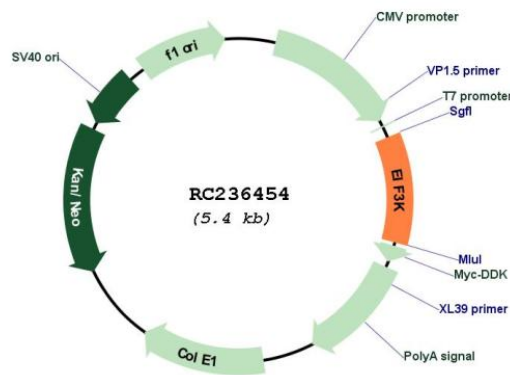
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001300992

ORF Size: 576 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_001300992.2](#)

RefSeq Size: 820 bp

RefSeq ORF: 579 bp

Locus ID: 27335

Cytogenetics: 19q13.2

MW: 22.5 kDa

Gene Summary: The 700-kD eukaryotic translation initiation factor-3 (eIF3) is the largest eIF and contains at least 12 subunits, including EIF2S12. eIF3 plays an essential role in translation by binding directly to the 40S ribosomal subunit and promoting formation of the 40S preinitiation complex (Mayeur et al., 2003 [PubMed 14519125]).[supplied by OMIM, Mar 2008]