

Product datasheet for MR205355

Eif3h (NM_080635) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Eif3h (NM_080635) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Eif3h |
| Synonyms: | 40kD; 1110008A16Rik; 9430017H16Rik; EIF3-gamma; EIF3-P40; Eif3s3 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >MR205355 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGTCGCGCAAGGAAGGCACCGGCTCTACCGCCACCTCCTCCGGTTCTGCTGGCGGCGCGGTGGGGA
AGGGCAAAGGCAAAGGCGGCTCCGGAGATTCGGCCGTGAAGCAGGTGCAGATCGACGGCCTGGTAGTATT
AAAGATAATCAACATTATCAAGAAGAAGGACAAGGCACTGAGGTTGTTCCAGGGCGTCTCTGGGTCTG
GTTGTGGAAGACCGGCTAGAGATTACCAACTGCTTCCCGTCCCCAGCACACGGAGGATGATGCTGACT
TTGATGAGGTACAGTATCAGATGGAGATGATGCGCAGCCTTCGCCATGTCAACATTGATCACCTCCACGT
GGGCTGGTATCAGTCCACATATTACGGCTCCTTCGTTACCCGGGCGCTTCTGGATTCTCAGTTCAGCTAC
CAGCACGCCATTGAAGAGTCTGTCGTCCTCATTTATGATCCCATAAAAACTGCCAAGGATCTCTCTCGC
TGAAGGCGTACAGACTGACTCCTAAACTGATGGAAGTTTGTAAAGAGAAGGACTTTCCCTGAAGCATT
GAAAAAGGCAAGCATCACCTTTGAGCACATGTTTGAAGAAGTGCCGATTGTAATTA AAAACTCACATCTG
ATCAATGTCCTTATGTGGGAAGTGGAGAAGTCAAGTGTGGCGGATAAGCAGCAATGCTCAGTCTTG
CTAGCAGCAATCATCTGGGAAGAGCCTCCAGCTGCTGATGGACCGGTTGGACGAAATGAGCCAGGACAT
AATCAAATACAACACGTACATGCGCAACACCAGTAAGCAGCAGCAGCAGAAACATCAGTATCAGCAGCGT
CGCCAACAGGAGAATATGCAGCGACAGAGTCGAGGCGAGCCCCACTCCCTGAGGAGGACCTCTCTAAAC
TCTTCAAGCCCCACCAGGCCCTGCCAGGATGGATTCACTGCTCATTGCAGGCCAGATTAACACTTACTG
CCAGAACATCAAGGAGTTCAGTCCCAAACTTAGGCAAACCTTTCATGGCCAGGCTCTTCAAGAATAC
AATAAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205355 protein sequence
 Red=Cloning site Green=Tags(s)

MASRKEGTGSTATSSGSAGGAVGKGGKGGSGDSAVKQVQIDGLVVLKIIKHYQEEGQGTEVVQGVLLGL
 VVEDRLEITNCFPPQHTEDDAFDEVQYQMEMMRSLRHVNIDHLHVGWYQSTYYGSFVTRALLDSQFSY
 QHAIIEESVVLIDPIKTAQGLSLKAYRLTPKLMEVCKEKDF SPEALKKASITFEHMFEEVPIVIKNSHL
 INVLMWELEKKS AVADKHELLSLASSNHLGKSLQLLMDRVDEMSQDI IKYNTYMRNTSKQQQKHQYQQR
 RQQENMQRQSRGEPPLPEEDLSKLFKPHQAPARMDSLLIAGQINTYCNIKEFTAQNLGKLFMAQALQEY
 NN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_080635

ORF Size: 1059 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_080635.1](#), [NP_542366.1](#)

RefSeq Size: 1254 bp

RefSeq ORF: 1059 bp

Locus ID: 68135

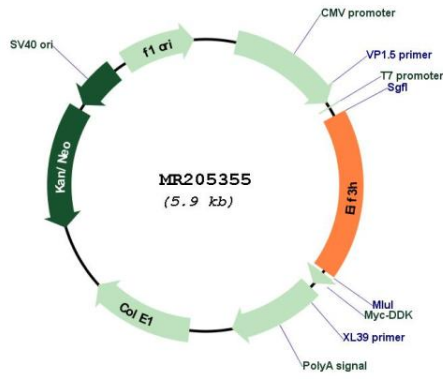
UniProt ID: [Q91WK2](#)

Cytogenetics: 15 C

MW: 39.8 kDa

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-tRNAⁱ 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]

Product images:



Circular map for MR205355