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Product datasheet for MG205355

Eif3h (NM_080635) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eif3h (NM_080635) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Eif3h
Synonyms:	40kD; 1110008A16Rik; 9430017H16Rik; EIF3-gamma; EIF3-P40; Eif3s3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG205355 representing NM_080635
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGTCGCGCAAGGAAGGCACCGGCTCTACCGCCACCTCCTCCGGTTCTGCTGGCGGCGCGGTGGGGA
AGGGCAAAGGCAAAGGCGGCTCCGGAGATTCGGCCGTGAAGCAGGTGCAGATCGACGGCCTGGTAGTATT
AAAGATAATCAAACATTATCAAGAAGAAGGACAAGGCACTGAGGTTGTTCAGGGCGTGCTCCTGGGTCTG
GTTGTGGAAGACCGGCTAGAGATTACCAACTGCTTCCCGTTCCCCCAGCACACGGAGGATGATGCTGACT
TTGATGAGGTACAGTATCAGATGGAGATGATGCGCAGCCTTCGCCATGTCAACATTGATCACCTCCACGT
GGGCTGGTATCAGTCCACATATTACGGCTCCTTCGTTACCCGGGCGCTTCTGGATTCTCAGTTCAGCTAC
CAGCACGCCATTGAAGAGTCTGTCGTCCTCATTTATGATCCCATAAAAACTGCCCAAGGATCTCTCTCGC
TGAAGGCGTACAGACTGACTCCTAAACTGATGGAAGTTTGTAAAGAGAAGGACTTTTCCCCTGAAGCATT
GAAAAAGGCAAGCATCACCTTTGAGCACATGTTTGAAGAAGTGCCGATTGTAATTAAAAACTCACATCTG
ATCAATGTCCTTATGTGGGAACTTGAGAAGAAGTCAGCTGTGGCGGATAAGCACGAATTGCTCAGTCTTG
CTAGCAGCAATCATCTGGGGAAGAGCCTCCAGCTGCTGATGGACCGGGTGGACGAAATGAGCCAGGACAT
AATCAAATACAACACGTACATGCGCAACACCAGTAAGCAGCAGCAGCAGAAACATCAGTATCAGCAGCGT
CGCCAACAGGAGAATATGCAGCGACAGAGTCGAGGCGAGCCCCCACTCCCTGAGGAGGACCTCTCTAAAC
TCTTCAAGCCCCACCAGGCCCCTGCCAGGATGGATTCACTGCTCATTGCAGGCCAGATTAACACTTACTG
CCAGAACATCAAGGAGTTCACTGCCCAAAACTTAGGCAAACTCTTCATGGCCCAGGCTCTTCAAGAATAC
AATAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

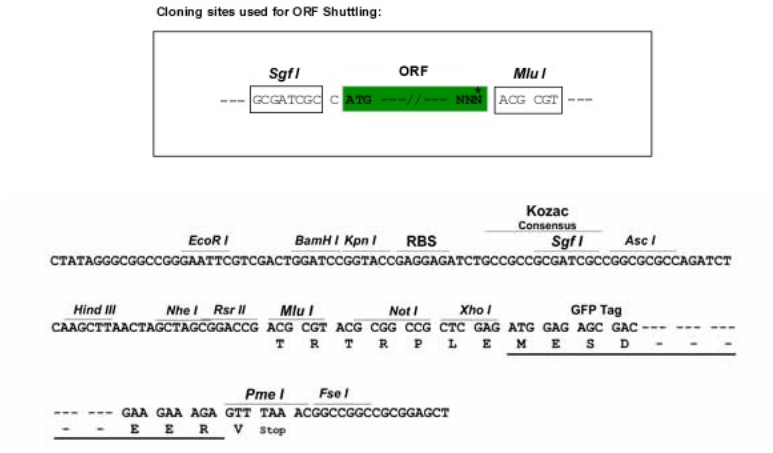
>MG205355 representing NM_080635
Red=Cloning site Green=Tags(s)

MASRKEGTGSTATSSGSAGGAVGKGKGKGGSGDSAVKQVQIDGLVVLKIIKHYQEEGQGTEVVQGVLLGL
VVEDRLEITNCFPFPQHTEDDADFDEVQYQMEMMRSLRHVNIDHLHVGWYQSTYYGSFVTRALLDSQFSY
QHAIEESVVLIYDPIKTAQGSLSLKAYRLTPKLMEVCKEKDFSPEALKKASITFEHMFEEVPIVIKNSHL
INVLMWELEKKSAVADKHELLSLASSNHLGKSLQLLMDRVDEMSQDIIKYNTYMRNTSKQQQQKHQYQQR
RQQENMQRQSRGEPPLPEEDLSKLFKPHQAPARMDSLLIAGQINTYCQNIKEFTAQNLGKLFMAQALQEY
NN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_080635

ORF Size: 1056 bp

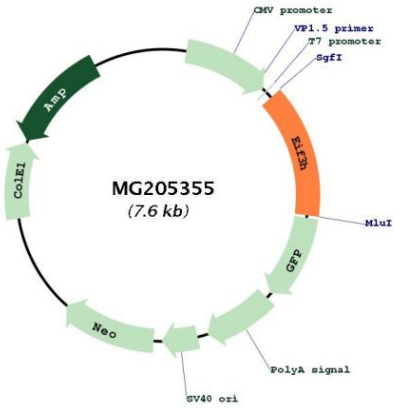
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_080635.1, NP_542366.1
RefSeq Size:	1254 bp
RefSeq ORF:	1059 bp
Locus ID:	68135
UniProt ID:	Q91WK2
Cytogenetics:	15 C
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 MG205355