

Product datasheet for **MG202724**

Eif4h (BC014796) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eif4h (BC014796) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Eif4h
Synonyms:	Wscr1, mKIAA0038, Ef4h
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202724 representing BC014796 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGACTTCGATACCTACGACGATCGGGCCTACAGCAGCTTCGGCGGCGGTAGAGGGTCCCGAGGCA
GTGCTGGTGGCCATGGGTCCCGGAGCCAGAAGGAGCTACCCACAGAGCCCCCTACACAGCTTACGTAGG
AAATCTCCCTTTAACACAGTTCAGGGTGACATAGATGCTATCTTTAAGGATCTCAGCATACGGAGTGTG
CGGCTAGTCAGAGACAAAGACACAGACAAATTTAAAGGGTCTGCTATGTAGAATTTGATGAGGTGGATT
CCCTGAAGGAGGCTCTGACTTATGACGGTGCCTCTTGGGTGACCGGTCCTTCGTGTGGACATTGCAGA
AGGCAGAAAACAAGATAAAGGTGGCTTTGGATTAGGAAAGGTGGACCTGATGACAGAGGCTACAGGGAT
GACTTCTTAGGGGTAGGGGGGAGTCGCCCTGGGGACCGCGAGCAGGCCCTCCAATGGGGAGTCGCT
TTCGAGATGGCCCTCCTCTGCGTGGCTCCAACATGGACTTCAGAGAACCACAGAAGAGGAACGAGCACA
GAGACCTCGGCTGCAGCTTAAACCTCGGACAGTGGCAACGCCCTCAATCAAGTAGCCAACCCCAACTCA
GCCATCTTTGGGGGAGCCAGGCCAGAGAGGAAGTGGTTCAGAAGGAGCAAGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG202724 representing BC014796
 Red=Cloning site Green=Tags(s)

MADFDTYDDRAYSSFGGGRGSRGSAGGHGSRSQKELPTEPPYTAYVGNLFPNTVQGDIDAIKDLRSRVS
 RLVRDKDIDKFKGFCYVEFDEVDSLKEALTYDGALLGDRSLRVDIAEGRKQDKGGFGFRKGGPDDRGYRD
 DFLGGRGSRPGDRRAGPPMGSFRFDGPPLRGSNMDFREPTTEERAQRRLQLKPRTVATPLNQVANPNS
 AIFGGARPREEVVQKEQE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC014796

ORF Size: 686 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: [BC014796](#), [AAH14796](#)

RefSeq Size: 2374 bp

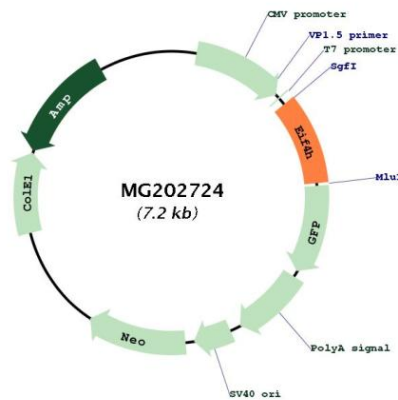
RefSeq ORF: 686 bp

Locus ID: 22384

Cytogenetics: 5 74.71 cM

Gene Summary: This gene encodes eukaryotic translation initiation factor 4H (eIF4H) that plays a critical role in the process of protein synthesis. The encoded protein is an RNA-binding protein that, in concert with other translation initiation factors, helps unwind the 5' cap-proximal region of mRNA to prepare it for ribosomal attachment. Mice lacking the encoded protein displayed growth retardation with a significant reduction of body weight, a smaller brain volume and altered brain morphology. Behaviorally, mice lacking the encoded protein exhibit severe impairments of fear-related associative learning and memory formation. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Aug 2015]

Product images:



Circular map for MG202724