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Product datasheet for MR202724

Eif4h (BC014796) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eif4h (BC014796) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Eif4h
Synonyms:	Wscr1, mKIAA0038, Ef4h
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR202724 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGACTTCGATACCTACGACGATCGGGCCTACAGCAGCTTCGGCGGCGGTAGAGGGTCCCGAGGCA
GTGCTGGTGGCCATGGGTCCCGGAGCCAGAAGGAGCTACCCACAGAGCCCCCCTACACAGCTTACGTAGG
AAATCTCCCTTTTAACACAGTTCAGGGTGACATAGATGCTATCTTTAAGGATCTCAGCATACGGAGTGTG
CGGCTAGTCAGAGACAAAGACACAGACAAATTTAAAGGGTTCTGCTATGTAGAATTTGATGAGGTGGATT
CCCTGAAGGAGGCTCTGACTTATGACGGTGCACTCTTGGGTGACCGGTCACTTCGTGTGGACATTGCAGA
AGGCAGAAAACAAGATAAAGGTGGCTTTGGATTCAGGAAAGGTGGACCTGATGACAGAGGCTACAGGGAT
GACTTCTTAGGGGGTAGGGGGGGCAGTCGCCCTGGGGACCGGCGAGCAGGCCCTCCAATGGGGAGTCGCT
TTCGAGATGGCCCTCCTCTGCGTGGCTCCAACATGGACTTCAGAGAACCCACAGAAGAGGAACGAGCACA
GAGACCTCGGCTGCAGCTTAAACCTCGGACAGTGGCAACGCCCCTCAATCAAGTAGCCAACCCCAACTCA
GCCATCTTTGGGGGAGCCAGGCCCAGAGAGGAAGTGGTTCAGAAGGAGCAAGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

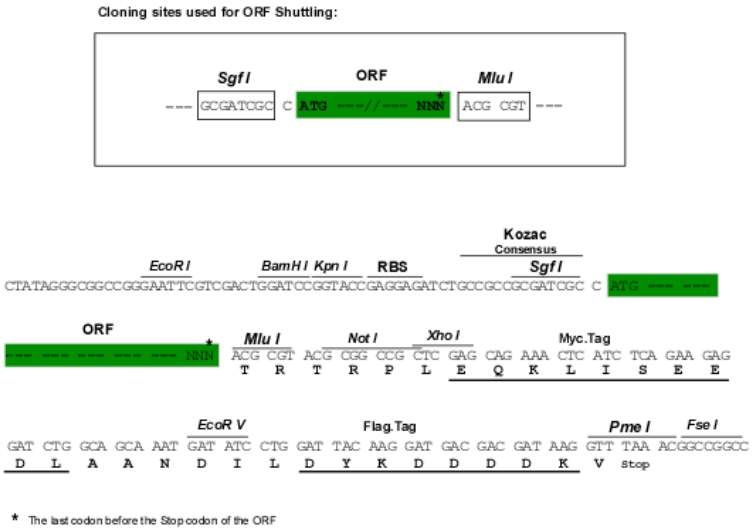
>MR202724 protein sequence
Red=Cloning site Green=Tags(s)

MADFDTYDDRAYSSFGGGRGSRGSAGGHGSRSQKELPTEPPYTAYVGNLPFNTVQGDIDAIFKDLSIRSV
RLVRDKDTDKFKGFCYVEFDEVDSLKEALTYDGALLGDRSLRVDIAEGRKQDKGGFGFRKGGPDDRGYRD
DFLGGRGGSRPGDRRAGPPMGSRFRDGPPLRGSNMDFREPTEEERAQRPRLQLKPRTVATPLNQVANPNS
AIFGGARPREEVVQKEQE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC014796

ORF Size: 684 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: BC014796, AAH14796

RefSeq Size: 2374 bp

RefSeq ORF: 686 bp

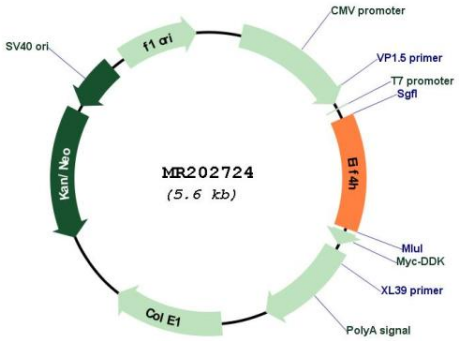
Locus ID: 22384

Cytogenetics: 5 74.71 cM

MW: 25.2 kDa

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 MR202724