

Product datasheet for MC217765

Eif4h (BC014796) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eif4h (BC014796) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Eif4h
Synonyms:	Wscr1, mKIAA0038, Ef4h
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC014796 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGCGGACTTCGATACCTACGACGATCGGGCCTACAGCAGCTTCGGCGGCGGTAGAGGGTCCCGAGGCA
GTGCTGGTGGCCATGGTCCCGGAGCCAGAAGGAGCTACCCACAGAGCCCCCTACACAGCTTACGTAGG
AAATCTCCCTTTAACACAGTTCAGGGTGACATAGATGCTATCTTTAAGGATCTCAGCATACGGAGTGTG
CGGCTAGTCAGAGACAAAGACACAGACAAATTTAAAGGGTCTGCTATGTAGAATTTGATGAGGTGGATT
CCCTGAAGGAGGCTCTGACTTATGACGGTGCCTCTTGGGTGACCGGTCACTTCGTGTGGACATTGCAGA
AGGCAGAAAACAAGATAAAGGTGGCTTTGGATTAGGAAAGGTGGACCTGATGACAGAGGCTACAGGGAT
GACTTCTTAGGGGTAGGGGGGGCAGTCGCCCTGGGGACCGCGAGCAGGCCCTCCAATGGGGAGTCGCT
TTTCAGATGGCCCTCCTCTGCGTGGCTCCAACATGGACTTCAGAGAACCACAGAAGAGGAACGAGCACA
GAGACCTCGGCTGCAGCTTAAACCTCGGACAGTGGCAACGCCCTCAATCAAGTAGCCAACCCCAACTCA
GCCATCTTTGGGGGAGCCAGGCCAGAGAGGAAGTGGTTCAGAAGGAGCAAGAATGA

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	BC014796
Insert Size:	687 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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]