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Product datasheet for MR211590

Heatr5b (BC086652) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Heatr5b (BC086652) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Heatr5b
Synonyms:	2010013B10Rik; A230048G03Rik; AV071430; D330050P16Rik; mKIAA1414
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR211590 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCTAGCTCACAGTTTATTGCTAAATGAGGAAGCTTTGGCTCAGATCACGGAGGCAAAGAGACCCG
TGTTCATCTTTGAATGGTTGAGATTTCTTGATAAAGTCCTAGTTGCTGCCAACAAGACAGATGTAAAAGA
AAAACAGAAAAAACTTGTTGAACAATTAACTGGATTAATAAGCAGCTCACCTGGACCACCTACTCGAAAA
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AATGTAATGACATTATCAGAAGTAAGGACGACACTGCAGCCTACTTACCAACAAAATTGGCAGCAGTGGC
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CTGTTGAAATCTCTGAAAAGTGCAGAGTCTCAAGGGCGAAGTGAGATCTTAATGAGTCTGCAGAAAGTGC
TGACTGGACTGGGCGGCGCAGCAGCTTCCTCTCACCGCGACATTTACAAGAATGCTCGATCCCTCCTGAC
CGACAGGTCGATGGCTGTCCGATGTGCAGTGGCCAAGTGCCTTCTGGAACTACAGAATGAAGCTGTGTTC
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CATGCGGCAAAATGTGAAGCGAGCAACCTTCGATGAAGTCTTAGAACTCATGGCCACGGGATTTCTGCGC
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GAGTTGGTGTGACACAGGCCTATGTTGTCTTTGTGACAACTCTGGGTGGCCAGTGGCTGGAGCGTAGCTT
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GTGTACTCCAGGCGATGTGTGTCCTTCATGCTGAGAGCTACCGTGGGCAGTCTGTTAGGTGAGAAAGCCC
AGATAGCAGCTGCCAAGGAGATCTGCCAGGCAATCGGAAAGCAGATGAAAGCTGTGGAAGCAGTAGTGAA
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TAGGACTTTTGGAGATTGTGACGTCAGTGCTTCTTCACCCAAGCATGGCTGCTCGGCTTGCTGCTGCCTG
GTGTCTGCGTTGTGTAGCTGTGGCGCTGCCCTTCCAGTTGACACCATTTCTGGATAGGTGTGCAGAACGG

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CTCAACAACCTCAAGACATCCCCAGAAGCTGTTAGTGGATACAGTTTTGCAATGGCCGCCTTGTTGGGTG
GAGTGCATCAGTGTCCTTTGGGCATTCCTCATGCCAAAGGAAAGATGGTGGTCAGCATTGCTGAAGATCT
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CTGCTTGGTGGGCTGTGCCATTACCCAGGACCACTCTGACTCCCTTGTTCAGGCAGCTGCCATCTCTTGC
CTTCAGCAGCTTCACATGTTTGCCCCCACCACACATTCCACACCGACAATTAAGCTGAAAACAAGCTTTT
TT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR211590 protein sequence
Red=Cloning site Green=Tags(s)

MELAHSLLLNEEALAQITEAKRPVFIFEWLRFLDKVLVAANKTDVKEKQKKLVEQLTGLISSSPGPPTRK
LLAKNLAALYSIGDTYTVFQTLDKCNDIIRSKDDTAAYLPTKLAAVACVGAFYEKMGRMLGSAFPETVNN
LLKSLKSAESQGRSEILMSLQKVLTGLGGAAASSHRDIYKNARSLLTDRSMAVRCAVAKCLLELQNEAVF
MWTAELENVATLCFKALENSNYGVRVAVSKLLGTVMATALMPKQATVMRQNVKRATFDEVLELMATGFLR
GGSGFLKSGGEMLKVGGSVNREVRVGVTQAYVVFVTTLGGQWLERSFATFLSHVLDLVSHPRATQTHVDA
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TLTDNSANTTTSLLRSLCHYDDSVLLGSWLQETDHKSIEDQLQPNSASGSGALEHDPSSIYLRIPAGEAV
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KSTLGPEEVRKSALTLVMGALDNPNPILRCAAGEALGRMAQVVGEASFIARMAQYSFDKLKSARDVVSRT
GHSLALGCLHRYVGGIGSGQHLKTSVSILLALAQDGTSPEVQTWSLHSLALIVDSSGPMYRGYVEPTLSL
VLTLLLTVPPSHTEVHQCLGRCLGAIITTVGPELQGNAATISTIRSSCLVGCAITQDHSDSLVQAAAISC
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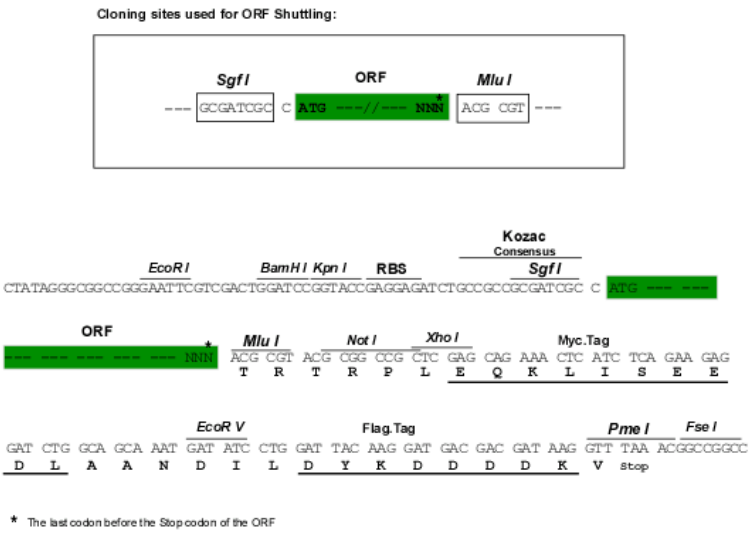
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC086652

ORF Size: 3222 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: BC086652, AAH86652

RefSeq Size: 3463 bp

RefSeq ORF: 3224 bp

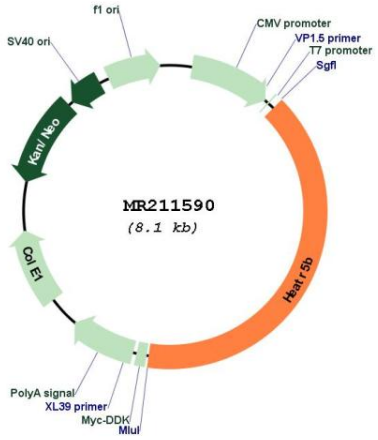
Locus ID: 320473

Cytogenetics: 17 E3

MW: 115.8 kDa

Gene Summary: Component of clathrin-coated vesicles (By similarity). Component of the aftiphilin/p200/gamma-synergin complex, which plays roles in AP1G1/AP-1-mediated protein trafficking including the trafficking of transferrin from early to recycling endosomes, and the membrane trafficking of furin and the lysosomal enzyme cathepsin D between the trans-Golgi network (TGN) and endosomes (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR211590