

## Product datasheet for MC223140

### Heatr5b (BC086652) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Heatr5b (BC086652) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Heatr5b
Synonyms:	2010013B10Rik; A230048G03Rik; AV071430; D330050P16Rik; mKIAA1414
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>BC086652 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGAGCTAGCTCACAGTTTATTGCTAAATGAGGAAGCTTTGGCTCAGATCACGGAGGCAAAGAGACCCG  
TGTTTCATCTTTGAATGGTTGAGATTTCTTGATAAAGTCTAGTTGCTGCCAACAAGACAGATGTAAGA  
AAAACAGAAAAAATTGTTGAACAATTAAGTGGATTAATAAGCAGCTCACCTGGACCACCTACTCGAAAA  
TTGTTAGCTAAAAACCTTGACGCCCTTTATAGCATTGGGGATACTTACACAGTTTTTCAAACACTAGATA  
AATGTAATGACATTATCAGAAGTAAGGACGACACTGCAGCCTACTTACCAACAAAATTGGCAGCAGTGGC  
TTGTGTTGGAGCCTTCTATGAGAAGATGGGAAGGATGTTGGGCAGTGCATTTCCAGAAAACAGTGAACAAT  
CTGTTGAAATCTCTGAAAAGTGCAGAGTCTCAAGGGCGAAGTGAAGATCTTAATGAGTCTGCAGAAAAGTGC  
TGACTGGACTGGGCGGCGCAGCAGCTTCCCTCACCAGCAGATTTACAAGAATGCTCGATCCCTCCTGAC  
CGACAGGTCGATGGCTGTCCGATGTGCAGTGGCCAAGTGCCTTCTGGAACACAGAATGAAGCTGTGTTCC  
ATGTGGACTGCCAACTAGAAAAATGTAGTACCCTCTGCTTTAAGGCTCTGAAAACTCAAATATGGGG  
TACGAGTCGAGTATCTAAGCTACTAGGAACAGTCAAGGCTACAGCATTGATGCCGAAACAGGCAACAGT  
CATGCGGCAAAATGTGAAGCGAGCAACCTTCGATGAAGTCTTAGAACTCATGGCCACGGGATTTCTGCGC  
GGAGGGTCGGGTTTCTAAAGAGTGGCGGAGAAATGTTGAAAGTTGGAGGGTCTGTTAATCGGGAAGTGA  
GAGTTGGTGTGACACAGGCTATGTTGTCTTTGTGACAACTCTGGGTGGCCAGTGGCTGGAGCGTAGCTT  
TGCCACATTCTTGTCCCACGTACTTGATCTGGTTTCCCATCCTCGAGCAACACAAACACAGTGGACGCT  
GTGTAATCCAGGCGATGTGTGTCCTTCATGCTGAGAGCTACCGTGGCAGTCTGTTAGGTGAGAAAGCCC  
AGATAGCAGCTGCCAAGGAGATCTGCCAGGCAATCGGAAAGCAGATGAAAGCTGTGGAAGCAGTAGTGAA  
TGATACGAGCAGTAAAAACAAATCGGGGACAGCAGACATTGCAGCCAGCCAGCACGTATGGTCTGTGCC  
CTGCAGGAGCTTGGGAGCCTGGTGCAGAGCCTGAATGCCACCGCCTCTCCTTTATTCAGGAAGCGTCCA  
TAGGACTTTTGGAGATTGTGACGTGAGTCTTCTTACCCAAGCATGGCTGCTCGGCTTGTCTGCTGCTG  
GTGCTGCGTTGTGTAGCTGTGGCGCTGCCCTCCAGTTGACACCATTTCTGGATAGGTGTGCAGAACGG  
CTCAACAACCTCAAGACATCCCCAGAAGCTGTTAGTGGATACAGTTTTGCAATGGCCGCTTGTGGGTG



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GAGTGCATCAGTGTCTTTGGGCATTCCCTCATGCCAAAGGAAAGATGGTGGTCAGCATTGCTGAAGATCT  
 GCTACGAACTGCTGCCAAAACAGCAGGCTGTCCCTGCAGCGCACCCAGGCTGGCTGGCTTCTTCTGGGA  
 GCCCTCATGACTTTAGGACCGTCTGTTGTTGTTACCATCTACCCAAGATGTTGCTGCTGTGGCGGAACG  
 TGTTCCCTCGCTCTTAAAGGAAGTGGAGGCTGAGAAGGCCCGGGGGGATTATTACCTGGCAGGTCAC  
 TCTGGAAGGTCGCGCTGGGGCTGTGTGCCATGAGGAGTTTTGTTGCACATTGCTGAGCTGCTAACA  
 GAGGATGCAATTAGGAAATTAATGACTCCTATCGAATGTGCCATGACCATGATGTCGCACATTCCATCCG  
 TCATCAAGGCCCATGGAGCCCATCTGAAAGCTAGTGCCGCAATGGTCCGCTTAAGACTTTATGATATCTT  
 GGCTTTATTACCTCCAAAACCTTATGAAGGGTCTTTCAATGCACTTCTTAGAGAGCTGGTGGCAGAGTTC  
 ACTCTGACTGACAACCTCGGCCAACACAACCTACCTCCCTCCTTCGCTCCCTCTGCCACTATGACGACAGCG  
 TTCTCCTGGGCTCCTGGCTTCAAGAGACTGATCATAAAATCCATTGAAGACCAGCTCCAGCCAAAACAGTGC  
 ATCTGGCAGTGGGGCTCTGGAACACGACCCCTTCTCCATTTACCTACGGATACCTGCAGGTGAAGCCGTG  
 CCGGGTCCGCTCCCTCTCGGAGTCTCAGTGATTGACGCATCTGTGGCTCTGTTCCGGGTTGTGTTCCAC  
 ATGTTTCTATAAACACAGGTTACAAATGCTGGATCACTTTGCTGAATGTGTTAAGCAAGCCAAAGGTGT  
 CCGCCAGCAGGCTGTGCAGCTTAATATATTTACTGCTGTTCTTAGTGCACTGAAGGGCTTAGCTGAAAAC  
 AAGAGTACTTTGGGACCTGAGGAAGTCCGCAAGTCTGCTGCACTGGTTATGGGAGCCCTCGACAACC  
 CAAACCCCATCTTACGGTGTGCGCAGGGGAAGCCCTTGGAAGAATGGCTCAGGTGGTGGGAGAAGCCTC  
 TTTCAATGCCCAATGGCCCAATACAGCTTTGACAAGTTGAAGTCAGCTCGAGATGTCGTGTCCAGGACT  
 GGTCACTCACTGGCCCTCGGTTGTTACATCGTTATGTTGGTGGCATAGGATCAGGACAACACCTAAAGA  
 CCAGTGTGAGCATTACTGAGCTAGCTCAAGATGGGACATCCCTGAAGTTACAGCTGGTCTCTTCA  
 TTCCTCGCCCTGATAGTGGATTCCAGCGGCCCAATGTACCGTGGTACGTGGAGCCACGTTGTCCCTG  
 GTACTCACCTTGCTGCTGACAGTCCACCTTACACACAGAAGTTCACCAGTGCCTGGGCAGATGCTTGG  
 GGGCGATCAACTACTGTTGGACCAGAGCTGCAGGGAATGCAGCGACCATATCCACATCCGCTCCTC  
 CTGCTTGGTGGGCTGTGCCATTACCCAGGACCACTCTGACTCCCTGTTTCAGGACGCTGCCATCTCTTGC  
 CTTCAGCAGCTTACATGTTTGCCTCCACACATTCCACACCGACAATTAAGCTGAAAACAAGCTTTT  
 TTTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** BC086652
- Insert Size:** 3225 bp
- 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:**
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:** [BC086652](#), [AAH86652](#)

RefSeq Size: 3463 bp

RefSeq ORF: 3224 bp

Locus ID: 320473

Cytogenetics: 17 E3

**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]