

Product datasheet for RC220610

HEATR5B (NM_019024) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HEATR5B (NM_019024) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HEATR5B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC220610 representing NM_019024 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGTTAGCCACAGTTTATTGCTAAATGAAGAAGCTTTGGCTCAAATCACCGAAGCAAAAAGACCAG
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TTTACGAACTGCTGCCAAAATAGCAGGCTATCTTTACAGCGCACCCAAGCTGGCTGGCTTTTACTTGGAG
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ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence:

>RC220610 representing NM_019024
 Red=Cloning site Green=Tags(s)

MELAHSLLLNEEALAQITEAKRPVFI FEWLRFLDKVLVAANKTDVKEKQKLLVEQLTGLISSSPGPPTRK
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 LQELGSLVQSLNATASPLIQEASIGLLEIVTSVLLHPSMAARLAAWCLRCVAVALPFQLTPFLDRCAER
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 PGPLPLGVSVIDASVALFGVVFPHVSYKHRLQMLDHFAECVKQAKGVRQQAVQLNIFTAVLSALKGLAEN
 KSTLGPEEVRKSALTLVMGPLDNPNI LRCAAGEALGRMAQVVGEATFIARMAQYSFDKLSARDVVSRT
 GHSLALGCLHRYVGGIGSGQHLKTSVSI LLALAQDGTSPVQVWLSLHSLALIVDSSGPMYRGYVEPTLSL
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 NVSPFAPGVSSRTDIHCRHQGVNITETGLEGLFGMLDRETDKLCSDIHDTLGHMLSSLAVEKLSHWLM
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 VTAQLQALHTLLDSPYARVHIAEDQLIGVELLSVLHRLLLTWNPSSVQLLVTVGVVQIVRAAQDYLQEKR
 NTLNEDDMEKEACTVLGEGDSSGLIPGKSLVFATMELLMFILVRHMPHLSTKVS DSPSHIATKTRLSEE
 SARLVAATVTILSDLPSLCS PAGCMTILPTILFLIARILKDTAIKSADNQVPPPVSAALQGIKSIVTLSM
 AKTEAGVQKQWALIRSTLACILEYSQPEDSVPTPDEVSM LTAIALFLWSASNEIIGVQSLQNGCMNRFK
 NALNSCDPWVQAKCYQLLLSVFQHSNRALSTPYIHSLAPIVVEK LKAVERNRPASNIELLAVQEGIKVLE
 TLVALGEEQNRVQLLALLVPTLISYLLDEN SFASASSASKDLHEFALQNLMHIGPLYPHAFKTVMGAAPE
 LKVRLETAVRASQASKAKAAARQPAPAIHSAPT IKLKTSFF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8102_a12.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:


ACCN: NM_019024

ORF Size: 6213 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: [NM_019024.1](#), [NP_061897.1](#)

RefSeq Size: 6792 bp

RefSeq ORF: 6216 bp

Locus ID: 54497

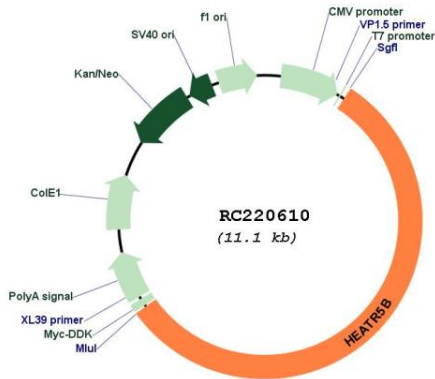
UniProt ID: [Q9P2D3](#)

Cytogenetics: 2p22.2

MW: 224.3 kDa

Gene Summary: Component of clathrin-coated vesicles (PubMed:15758025). Component of the aftiphilin/p200/gamma-synergic 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 (PubMed:15758025).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC220610