

Product datasheet for MR201063

Fhit (NM_010210) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Fhit (NM_010210) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Fhit
Synonyms: AW045638; Fra1; Fra14A2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR201063 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCATTTAGATTTGGCCAACATCTCATCAAGCCCTCTGTGGTTTTCTCAAACACTGAAGTGTCTTCG
 CCCTGGTGAATAGGAAACCCGTTGTACCTGGCCATGTCCTCGTGTGCCCGCTGAGGCCAGTAGAGCGCTT
 CCGTGACCTACATCCTGATGAAGTGGCCGATTTGTTTCAAGTGACCCAGAGAGTTGGGACAGTGGTGGAG
 AAGCATTTCCAGGGGACCTCCATCACCTTCTCCATGCAAGATGGTCTGAAGCTGGGACAGTGTGAAGC
 ATGTACATGTCCACGTTCTTCCAGGAAGCAGGGGACTTCCCCGGAATGACAACATCTATGATGAGCT
 CCAGAAACATGACAGAGAAGAAGAGGACTCGCCAGCCTTTTGGAGATCTGAGGAGGAGATGGCTGCAGAG
 GCGGAGGCTCTGCGGGTCTACTTTCAGGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201063 protein sequence
 Red=Cloning site Green=Tags(s)

MSFRFGQHLIKPSVVFLKTELSFALVNRKPVVPGHVLVCPLRPVERFRDLHPDEVADLFQVTQRVGTVVE
 KHFGQTSITFSMQDGPEAGQTVKHVHVHVLPRKAGDFPRNDNIYDELQKHDREEDSPAFWRSEEMAAE
 AEALRVYFQA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_010210

ORF Size: 453 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_010210.1](#), [NM_010210.2](#), [NM_010210.3](#), [NP_034340.1](#)

RefSeq Size: 998 bp

RefSeq ORF: 453 bp

Locus ID: 14198

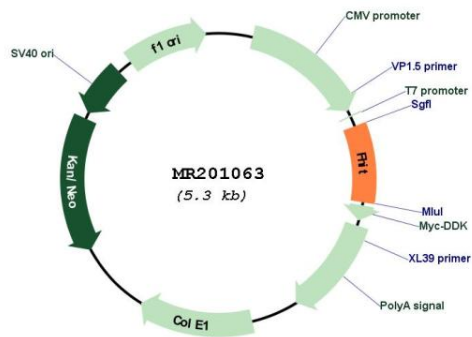
UniProt ID: [O89106](#)

Cytogenetics: 14 5.61 cM

MW: 17.2 kDa

Gene Summary: This gene encodes a member of the HIT family of proteins that are characterized by the presence of a histidine triad sequence. The encoded protein is a diadenosine triphosphate hydrolase enzyme that cleaves the P(1)-P(3)-bis(5'-adenosyl) triphosphate (Ap3A) to yield AMP and ADP. This locus is very fragile and has been found to be altered in different types of cancers. Mice lacking the encoded protein display increased susceptibility to spontaneous and induced tumors. Ectopic expression of the encoded protein in such knockout mice inhibits tumor development. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Apr 2015]

Product images:



Circular map for MR201063