

Product datasheet for **SC118885**

FHIT (NM_002012) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FHIT (NM_002012) Human Untagged Clone
Tag:	Tag Free
Symbol:	FHIT
Synonyms:	AP3Aase; FRA3B
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118885 sequence for NM_002012 edited (data generated by NextGen Sequencing) ATGTCCTTTCAGATTTGGCCAACATCTCATCAAGCCCTCTGTAGTGTTCCTCAAAACAGAA CTGTCCTTCGCTCTTGTGAATAGGAAACCTGTGGTACCAGGACATGTCCTTGTGTGCCCG CTGCGGCCAGTGGAGCGCTTCCATGACCTGCGTCCTGATGAAGTGGCCGATTTGTTTCAG ACGACCCAGAGAGTCGGGACAGTGGTGGAAAAACATTTCCATGGGACCTCTCACCTTT TCCATGCAGGATGGCCCCGAAGCCGGACAGACTGTGAAGCACGTTACGTCACGTTCTT CCCAGGAAGGCTGGAGACTTTCACAGGAATGACAGCATCTATGAGGAGCTCCAGAAACAT GACAAGGAGGACTTTCCTGCCTCTTGGAGATCAGAGGAGGAAATGGCAGCAGAAGCCGCA GCTCTGCGGGTCTACTTTCAGTGA Clone variation with respect to NM_002012.2 6 g=>t;294 t=>c



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002012 unedited
 NGGGTTCAAAATTTGNTATACGACTCACTATAGGGCGGCCGCGNAATCGGCACGAGGCTC
 TGTCGGTTCACAGGACTTTTTGCCTCTGTTCCCGGGTCCCTCAGGCGGCCACCCAGTGG
 GCACACTCCCAGGCGGCGCTCCGGCCCCGCGCTCCCTCCCTCTGCCTTTCATTCCAGCT
 GTCAACATCCTGGAAGCTTTGAAGCTCAGGAAAGAAGAGAAATCCACTGAGAACAGTCTG
 TAAAGTCCGTAGTGTCTATCTACATCCAGACGGTGAAGGGAGAGAAAGAGAAAGAGGT
 ATCCTAGGAATACCTGCCTGCTTAGACCCTCTATAAAAGCTCTGTGCATCCTGCCACTGA
 GGACTCCGAAGAGGTAGCAGTCTTCTGAAAGACTTCAACTGTGAGGACATGTCTTTCAGA
 TTTGGCCAACATCTCATCAAGCCCTCTGTAGTGTCTCAAACAGAACTGCCTTCGCT
 CTTGTGAATAGGAAACCTGTGGTACCAGGACATGTCCTTGTGTGCCCGCTGCGGCCAGTG
 GAGCGTTCATGACCTGCGTCTGATGAAGTGGCCGATTTGTTTCAGACGACCCAGAGA
 GTCGGGACAGTGGTGGAAAAACATTTCCATGGGACCTCTCTCACCTTTCCATGCAGGAT
 GGCCCCAAGCCGGACAGACTGTGAAGCACGTTACGTCCACGTTCTTCCAGGAAGGCT
 GGAGACTTTCACAGGAATGACAGCATCTATGAGGAGCTCCAGAAACATGACAGGNAGGAC
 TTTCTGCCTCTTGGAGATCAGAGGAGGAAATGGCAGCAGAAGCCGAGCTCTGCGGGTC
 TACTTTCAGTGACACAGGTAAAGACTGCATTTCTGCATTACCCAGAACCTCCCGTGGCC
 TCAGGAAAGAGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002012 unedited
 TATGGACCGCGGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TGCAGCAGAAAAGGAAGTTAATCATAAGGCTGCCGAATAAGGAGACAGGGGAAACCTC
 AAATCTGCCTGTCTGAGCCGTTTAGGTCTAGGTATTTAAGGGAGTTGGAGTGACCGAGG
 TGGGGGATCACTGTTGAAAAATACAGGATGGTGAAGTAAAAAACTGCATTTTCATGCT
 GATTCAGTTCCTCTTGGGAAAGCGGGGGGGCTTCAAACCTGGTTGGCAATAGCTC
 TTTTGCTGGAATTCAGGATCTGAAAAACATCTTAAGCCATTTTTAAACAACAAAGGCT
 TATGATTCTAACATCAAAAATCTTCTGTAGGAACAATGAGGAGGCAATGGTTAGCAT
 CTGGTGTCTGGGACTTTTGGTTACCAAGAAGTGGGCCAAAGTGCAGCCTGATTAATGCT
 TAATTACAATATATTTCTGTCCAGAACCAGCATCTAATTCTTGTTAACCTGTGAGGA
 TGGTTTCAATAGAATGTTCCATTGTCCCTAAAGGGAGGTATAGTTAGTCCCATTATACT
 CCAGGTAATGATGACAGTCTTGGCAAAAATCTTAGGACCCTAAGTTGTTTCCACCTCACA
 ACCTATATTATCCGTCTAGTCTCAGTTACCANCATCTGACTGCTGGGAAGACTGAGGGT
 GATTTGTTTGGTCTGTGCACAAAACCTTTAAAGAGAATACACATGTTAGTTAACTTAAAA
 ATCCACAGGACTGTGGCATAGTTTGTGTAACAAGTTAGGAAATATCTTTCCTGGTAGA
 TGTACAGGGAAGTCATTTACCTGAAAAACAAGAGGGGTACGCCTTCAGCA

Restriction Sites:

NotI-NotI

ACCN:

NM_002012

Insert Size:

2700 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: [NM_002012.1](#), [NP_002003.1](#)

RefSeq Size: 1095 bp

RefSeq ORF: 444 bp

Locus ID: 2272

UniProt ID: [P49789](#)

Cytogenetics: 3p14.2

Domains: HIT

Protein Pathways: Non-small cell lung cancer, Purine metabolism, Small cell lung cancer

Gene Summary: The protein encoded by this gene is a P1-P3-bis(5'-adenosyl) triphosphate hydrolase involved in purine metabolism. This gene encompasses the common fragile site FRA3B on chromosome 3, where carcinogen-induced damage can lead to translocations and aberrant transcripts. In fact, aberrant transcripts from this gene have been found in about half of all esophageal, stomach, and colon carcinomas. The encoded protein is also a tumor suppressor, as loss of its activity results in replication stress and DNA damage. [provided by RefSeq, Aug 2017]

Transcript Variant: This variant (1) encodes the longest isoform (1). Variants 1-4 all encode the same isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.