

Product datasheet for SC327375

FHIT (NM_001166243) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FHIT (NM_001166243) Human Untagged Clone
Tag:	Tag Free
Symbol:	FHIT
Synonyms:	AP3Aase; FRA3B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC327375 representing NM_001166243. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
 ATGTCGTTAGATTTGGCCAACATCTCATCAAGCCCTCTGTAGTGTCTCTCAAAACAGAAGTGTCTTCT
 GCTCTTGTGAATAGGAAACCTGTGGTACCAGGACATGCTTGTGTGCCCGCTGCGGCCAGTGGAGCGC
 TTCCATGACCTGCGTCCTGATGAAGTGGCCGATTTGTTTCAGACGACCCAGAGAGTCGGGACAGTGGTG
 GAAAAACATTTCCATGGGACCTCTCTCACCTTTTCCATGCAGGATGGCCCCGAAGCCGGACAGACTGTG
 AAGCACGTTACGTCCATGTTCTTCCAGGAAGGCTGGAGACTTTCACAGGAATGACAGCATCTATGAG
 GAGCTCCAGAAACATGACAAGGAGGACTTTCCTGCCTCTTGGAGATCAGAGGAGGAAATGGCAGCAGAA
 GCCGCAGCTCTGCGGGTCTACTTTCAG**TGA**
ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001166243
Insert Size:	444 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).


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OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none"> 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:	<u>NM_001166243.2</u>
RefSeq Size:	3113 bp
RefSeq ORF:	444 bp
Locus ID:	2272
UniProt ID:	<u>P49789</u>
Cytogenetics:	3p14.2
Protein Pathways:	Non-small cell lung cancer, Purine metabolism, Small cell lung cancer
MW:	16.9 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2), as well as variants 1, 3, and 4, encodes isoform 1.</p> <p>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.</p>