

Product datasheet for **RG228740**

FHIT (NM_001166243) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: FHIT (NM_001166243) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: FHIT
Synonyms: AP3Aase; FRA3B
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG228740 representing NM_001166243
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCGTT**CAGATTTGGCCAACATCTCATCAAGCCCTCTGTAGTGTTC**CAAAACAGAACTGTCCTTCG
 CTCTTGTGAATAGGAACTGTGGTACCAGGACATGTCCTTGTGTGCCCGCTGCGCCAGTGGAGCGCTT
 CCATGACCTGCGTCCTGATGAAGTGGCCGATTTGTTTCAGACGACCCAGAGAGTCGGGACAGTGGTGGAA
 AACATTTCCATGGGACCTCTCTCACCTTTCCATGCAGGATGGCCCGAAGCCGGACAGACTGTGAAGC
 ACGTTCACGTCCATGTTCTTCCAGGAAGGCTGGAGACTTTCACAGGAATGACAGCATCTATGAGGAGCT
 CCAGAAACATGACAAGGAGGACTTTCCTGCCTCTTGGAGATCAGAGGAGGAAATGCGAGCAGAAGCCGCA
 GCTCTGCGGGTCTACTTTCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG228740 representing NM_001166243
 Red=Cloning site Green=Tags(s)

MSFRFGQHLIKPSVVFLKTELSFALVNRKPVVPGHVLVCPLRPVERFHDLRPDEVADLFQTTQRVGTVVE
 KHFFHGTSLTFSMQDGPAGQTVKHVHVHVLPRKAGDFHRNDSIYEELQKHKEDFPASWRSEEEMAAEAA
 ALRVYFQ

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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:	NM_001166243.3
RefSeq Size:	1122 bp
RefSeq ORF:	444 bp
Locus ID:	2272
UniProt ID:	P49789
Cytogenetics:	3p14.2
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]