

Product datasheet for TL316541

FHIT Human shRNA Plasmid Kit (Locus ID 2272)

Product data:

Product Type: shRNA Plasmids

Product Name: FHIT Human shRNA Plasmid Kit (Locus ID 2272)

Locus ID: 2272

AP3Aase; FRA3B Synonyms:

Vector: pGFP-C-shLenti (TR30023)

E. coli Selection: Chloramphenicol (34 ug/ml)

Mammalian Cell

Selection:

Puromycin

Format: Lentiviral plasmids

Components: FHIT - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 2272). 5µg

purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.

NM 001166243, NM 001320899, NM 001320900, NM 001320901, NM 002012, NR 135491, RefSeq:

> NM 001354589, NM 001354590, NR 148921, NR 148922, NM 002012.1, NM 002012.2, NM 002012.3, NM 001166243.1, NM 001166243.2, BC032336, BC032336.1, BC057223,

NM 002012.4, NM 001166243.3

UniProt ID: P49789

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]

shRNA Design: These shRNA constructs were designed against multiple splice variants at this gene locus. To

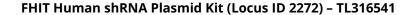
> be certain that your variant of interest is targeted, please contact techsupport@origene.com. If you need a special design or shRNA sequence, please utilize our custom shRNA service.



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Performance Guaranteed:

OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).