

Datasheet for ABIN5498812

## Human FH ORF Clone in Mammalian Expression Vector (Myc-DYKDDDDK Tag)

### 1 Publication

#### Overview

|              |                             |
|--------------|-----------------------------|
| Quantity:    | 10 µg                       |
| Gene:        | FH                          |
| Species:     | Human                       |
| Fusion tag:  | Myc-DYKDDDDK Tag            |
| Insert:      | ORF                         |
| Vector:      | Mammalian Expression Vector |
| Application: | Protein Expression (PEXP)   |

#### Product Details

|                       |  |
|-----------------------|--|
| Purpose:              | Mammalian Vector with ORF clone of Human fumarate hydratase (FH)                         |
| Brand:                | TrueORF  |
| Insert Length:        | 1533 bp  |
| Vector Backbone:      | pCMV6-Entry  |
| Promoter:             | CMV Promoter   |
| Bacterial Resistance: | Kanamycin  |
| Expression Type:      | Transient  |
| Specificity:          | Restriction Site: SgfI-MluI  |
| Sequencing Primer:    | VP1.5 (forward) 5'GGACTTTCCTCAAATGTTCG 3', XL39 (reverse) 5'ATTAGGACAAGGCTGGTGGG 3'      |
| Grade:                | End-sequenced  |
| Components:           | The ORF clone is ion-exchange column purified, transfection-ready dried plasmid DNA, and |

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## Product Details

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shipped with 2 vector sequencing primers.

## Target Details

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Gene: FH

Abstract: [FH Products](#)

Background: The protein encoded by this gene is an enzymatic component of the tricarboxylic acid (TCA) cycle, or Krebs cycle, and catalyzes the formation of L-malate from fumarate. It exists in both a cytosolic form and an N-terminal extended form, differing only in the translation start site used. The N-terminal extended form is targeted to the mitochondrion, where the removal of the extension generates the same form as in the cytoplasm. It is similar to some thermostable class II fumarases and functions as a homotetramer. Mutations in this gene can cause fumarase deficiency and lead to progressive encephalopathy.

NCBI Accession: [NM\\_000143](#), [NP\\_000134](#)

## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Storage: 4 °C/-20 °C

## Publications

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Product cited in: Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)