

Product datasheet for **RG238103**

FDFT1 (NM_001287742) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FDFT1 (NM_001287742) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FDFT1
Synonyms:	DGPT; ERG9; SQS; SQSD; SS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG238103 representing NM_001287742. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
```



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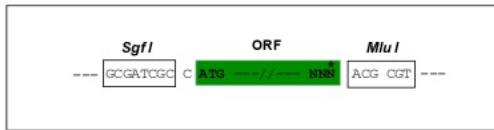
Protein Sequence: >Peptide sequence encoded by RG238103
 Blue=ORF Red=Cloning site Green=Tag(s)

MEFVKCLGHPEEFYNLVRFRIGGKRKVMKMDQDSLSSSLKTCYKYLNQTSRFAAVIQALDGEMRNAV
 CIFYLVLRALDTLEDDMTISVEKKVPLLNHFHFLYQPDWRFMESKEKDRQVLEDFPTISLEFRNLAEK
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 LSRLRNQSVFNCAIPQVMAIATLAACYNNQVFKGAVKIRKGQAVTLMMDATNMPAVKAIYQYMEEI
 YHRIPDSDPSSSKTRQIISTIRTQNLPCQLISRSHYSPIYLSFVMLLAALSWQYLTTLSQVTEDEVYQT
 GEH
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Kozac
Consensus

EcoRI BamHI KpnI RBS SgfI AscI

CTATAGGGCGGCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGCGCCAGATCT

HindIII NheI RsrII MluI NotI XhoI GFP Tag

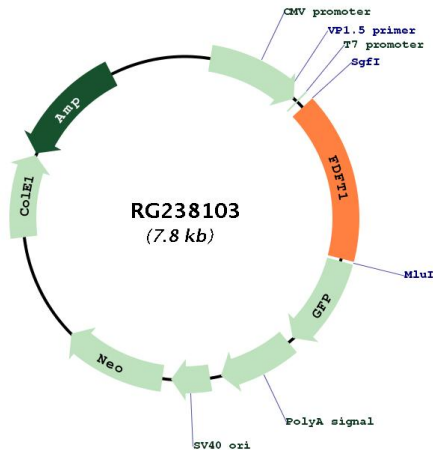
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T R T R P L E M E S D - - -

PmeI FseI

- - - GAA GAA AGA GTT TAA ACGGCCGGCCGGAGCT

- - E E R V Stop

Plasmid Map:


ACCN: NM_001287742

ORF Size: 1251 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

RefSeq: [NM_001287742.1](#), [NP_001274671.1](#)

RefSeq Size: 2681 bp

RefSeq ORF: 1254 bp

Locus ID: 2222

UniProt ID: [P37268](#)

Cytogenetics: 8p23.1

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Steroid biosynthesis

MW: 48.6 kDa

Gene Summary:

This gene encodes a membrane-associated enzyme located at a branch point in the mevalonate pathway. The encoded protein is the first specific enzyme in cholesterol biosynthesis, catalyzing the dimerization of two molecules of farnesyl diphosphate in a two-step reaction to form squalene. [provided by RefSeq, Jul 2008]