

## Product datasheet for **RG237664**

### FDFT1 (NM\_001287747) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FDFT1 (NM_001287747) 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:	>RG237664 representing NM_001287747. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCGCAACGCGAGTGTGCATATTTTATCTGGTTCTCCGAGCTCTGGACACTGGAAGATGACATGACC
ATCAGTGTGAAAAGAAGGTCCCGCTGTACACAACCTTCACTCTTTCCTTACCAACCAGACTGGCGG
TTCATGGAGAGCAAGGAGAAGGATCGCCAGGTGCTGGAGGACTTCCCAACGATCTCCCTTGAGTTTAGA
AATCTGGCTGAGAAATACCAACAGTGATTGCCGACATTTGCCGAGAATGGGCATTGGGATGCCAGAG
TTTTTGGATAAGCATGTGACCTCTGAACAGGAGTGGGACAAGTACTGCCACTATGTTGCTGGGCTGGTC
GGAATGGCCTTCCCGTCTTTTCTCAGCCTCAGAGTTTGAAGACCCCTTAGTTGGTGAAGATACAGAA
CGTGCCAACTCTATGGGCTGTTTCTGCAGAAAACAAACATCATCCGTGACTATCTGGAAGACCAGCAA
GGAGGAAGAGAGTTCTGGCCTCAAGAGGTTTGGAGCAGGTATGTTAAGAAGTTAGGGGATTTTGCTAAG
CCGGAGAATATTGACTTGGCCGTGCAGTGCCTGAATGAACCTTATAACCAATGCACTGCACCACATCCCA
GATGTCATCACCTACCTTTCGAGACTCAGAAAACAGAGTGTGTTAACTTCTGTGCTATTCACAGGTG
ATGGCCATTGCCACTTTGGCTGCCTGTTATAATAACCAGCAGGTGTTCAAAGGGGCGAGTGAAGATTCCG
AAAGGGCAAGCAGTGACCCTGATGATGGATGCCACCAATATGCCAGCTGTCAAAGCCATCATATATCAG
TATATGGAAGAGATTTATCATAGAATCCCCGACTCAGACCCATCTCTAGCAAAAACAGGCAGATCATC
TCCACCATCCGGACGCAGAATCTTCCCAACTGTCAGCTGATTTCCCGAAGCCACTACTCCCCATCTAC
CTGTCGTTTGTATGCTTTTGGCTGCCCTGAGCTGGCAGTACCTGACCACTCTCTCCAGGTAACAGAA
GACTATGTTTCAGACTGGAGAACAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG237664  
 Blue=ORF Red=Cloning site Green=Tag(s)

MRNAVCIFYLVLRALDTLEDDMTISVEKKVPLLNHFHFLYQPDWRFMESKEKDRQVLEDFPTISLEFR  
 NLAEKYQTVIADICRRMGIGMAEFLDKHVTSEQEWKDYCHYVAGLVGIGLSRLFSASEFEDPLVGEDTE  
 RANSMGLFLQKTNIIRDYLEDDQGGREFWPQEVWSRYVKKLGDFAKPENIDLAVQCLNELITNALHHIP  
 DVITYLSRLRNQSVFNCAIPQVMAIATLAACYNNQVFKGAVKIRKGQAVTLMMDATNMPAVKAIYQ  
 YMEEIYHRIPDSDPSSSKTRQIIISTIRTQNLPCQLISRSHYSPIYLSFVMLLAALSWQYLTTLSQVTE  
 DYVQTGEH  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNTAVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001287747

**ORF Size:** 1059 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.

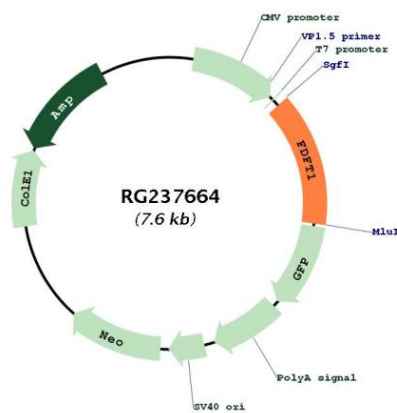
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**RefSeq:** [NM\\_001287747.1](#), [NP\\_001274676.1](#)

**RefSeq Size:** 2346 bp

RefSeq ORF:	1062 bp
Locus ID:	2222
UniProt ID:	<a href="#">P37268</a>
Cytogenetics:	8p23.1
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Steroid biosynthesis
MW:	41.2 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]

### Product images:



Circular map for RG237664