

Product datasheet for **RG237665**

FDFT1 (NM_001287748) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FDFT1 (NM_001287748) 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:	>RG237665 representing NM_001287748. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTGAAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCGCAACGCAGTGTGCATATTTTATCTGTTTCTCCGAGCTCTGGACACTGGAAGATGACATGACC
ATCAGTGTGAAAAGAAGGTCCCGCTGTTACACAACCTTCACTCTTTCCTTACCAACCAGACTGGCGG
TTCATGGAGAGCAAGGAGAAGGATCGCCAGGTGCTGGAGGACTTCCCAACGATCTCCCTTGAGTTTAGA
AATCTGGCTGAGAAATACCAACAGTGATTGCCGACATTTGCCGAGAATGGGCATTGGGATGCCAGAG
TTTTTGGATAAGCATGTGACCTCTGAACAGGAGTGGGACAAGTACTGCCACTATGTTGCTGGGCTGGTC
GGAATGGCCTTCCCGTCTTTTCTCAGCCTCAGAGTTTGAAGACCCCTTAGTTGGTGAAGATACAGAA
CGTGCCAACTCTATGGGCTGTTTCTGCAGAAAACAAACATCATCCGTGACTATCTGGAAGACCAGCAA
GGAGGAAGAGAGTTCTGGCCTCAAGAGGTTTGGAGCAGGTATGTTAAGAAGTTAGGGGATTTTGCTAAG
CCGGAGAATATTGACTTGGCCGTGCAGTGCCTGAATGAACCTTATAACCAATGCACTGCACCACATCCCA
GATGTCATCACCTACCTTTCGAGACTCAGAAAACAGAGTGTGTTAACTTCTGTGCTATTCCACAGGTG
ATGGCCATTGCCACTTTGGCTGCCTGTTATAATAACCAGCAGGTGTTCAAAGGGGCAGTGAAGATTCCG
AAAGGGCAAGCAGTGACCCTGATGATGGATGCCACCAATATGCCAGCTGTCAAAGCCATCATATATCAG
TATATGGAAGAGATTTATCATAGAATCCCCGACTCAGACCCATCTCTAGCAAAAACAAAGGCAGATCATC
TCCACCATCCGGACGCAGAATCTTCCCACTGTGAGCTGATTTCCCGAAGCCACTACTCCCCATCTAC
CTGTCGTTTGTGATGCTTTTGGCTGCCCTGAGCTGGCAGTACCTGACCACTCTCTCCAGGTAACAGAA
GACTATGTTTCAGACTGGAGAACAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237665
 Blue=ORF Red=Cloning site Green=Tag(s)

MRNAVCIFYLVLRALDTLEDDMTISVEKKVPLLNHFHFLYQPDWRFMESKEKDRQVLEDFPTISLEFR
 NLAEKYQTVIADICRRMGIGMAEFLDKHVTSEQEWKDYCHYVAGLVGIGLSRFLFSASEFEDPLVGEDTE
 RANSMGLFLQKTNIIRDYLEDDQGGREFWPQEVWSRYVKKLGDFAKPENIDLAVQCLNELITNALHHIP
 DVITYLSRLRNQSVFNCAIPQVMAIATLAACYNNQVFKGAVKIRKGQAVTLMMDATNMPAVKAIYQ
 YMEEIIYHRIPDSDPSSSKTRQIIISTIRTQNLPCQLISRSHYSPIYLSFVMLLAALSWQYLTTLSQVTE
 DYVQTGEH
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNTAVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001287748

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.

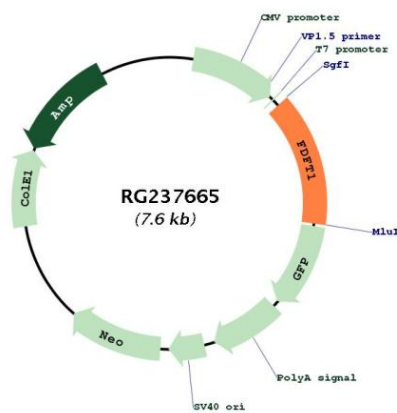
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

RefSeq: [NM_001287748.1](#), [NP_001274677.1](#)

RefSeq Size: 2008 bp

RefSeq ORF:	1062 bp
Locus ID:	2222
UniProt ID:	P37268
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 RG237665