

Product datasheet for **RG237499**

FDFT1 (NM_001287751) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FDFT1 (NM_001287751) 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:	>RG237499 representing NM_001287751. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGACCATCAGTGTGGAAAAGAAGTCCCCTGTTACACAACCTTCACTCTTTCCTTTACCAACCAGAC
TGGCGGTT CATGGAGAGCAAGGAGAAGGATCGCCAGGTGCTGGAGGACTCCCAACGATCTCCCTTGAG
TTTAGAAATCTGGCTGAGAAATACCAAACAGTGATTGCCGACATTTGCCGGAGAATGGGCATTGGGATG
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CAGCAAGGAGGAAGAGAGTTCTGGCCTCAAGAGGTTTGGAGCAGGTATGTTAAGAAGTTAGGGGATTTT
GCTAAGCCGGAGAATATTGACTTGGCCGTGCAAGTGCCTGAATGAACCTATAACCAATGCACTGCACCAC
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ATCATCTCCACCATCCGGACGCAGAATCTTCCAACTGTCAGCTGATTTCCCGAAGCCACTACTCCCCC
ATCTACCTGTGTTTTGCATGCTTTTGGCTGCCCTGAGCTGGCAGTACCTGACCACTCTCTCCAGGTA
ACAGAAGACTATGTTTCAGACTGGAGAACAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237499
 Blue=ORF Red=Cloning site Green=Tag(s)

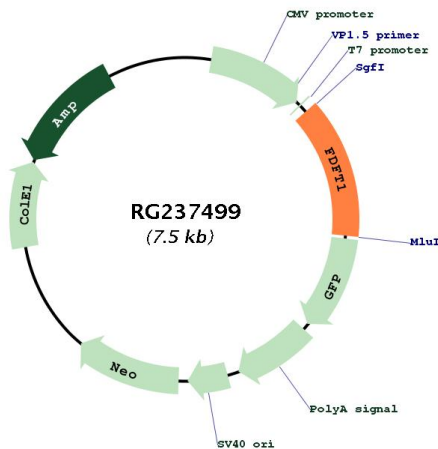
MTISVEKKVPLLHNHFSFLYQPDWRFMESKEKDRQVLEDFPTISLEFRNLAEKYQTVIADICRRMGIGM
 AEFLDKHVTSEQEWDKYCHYVAGLVGIGLSRLFSASEFEDPLVGEDTERANSMGLFLQKTNIRDYLED
 QQGGREFWPQEVWSRYVKKLGDFAKPENIDLAVQCLNELITNALHHIPDVITYLSRLRNQSVFNCAIP
 QYMAIATLAACYNNQVFKGAVKIRKQAVTLMMDATNMPAVKAIYQYMEEIYHRIPDSDPSSSKTRQ
 IISTIRTQNLPCQLISRSHYSPIYLSFVMLLAALSWQYLTTLSQVTEYVQTGEH
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001287751

ORF Size:	996 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_001287751.1 , NP_001274680.1
RefSeq Size:	2120 bp
RefSeq ORF:	999 bp
Locus ID:	2222
UniProt ID:	P37268
Cytogenetics:	8p23.1
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Steroid biosynthesis
MW:	38.8 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]