

Product datasheet for **RG201392**

FDFT1 (NM_004462) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: FDFT1 (NM_004462) 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: >RG201392 representing NM_004462
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGTTCGTGAAATGCCTCGGCCACCCGAAGATTCTACAACCTGGTGCCTCCGGATCGGGGGCA
 AGCGGAAGGTGATGCCCAAGATGGACCAGGACTCGCTCAGCAGCAGCCTGAAAACCTTGCTACAGGTATCT
 CAATCAGACCAGTCGCAGTTTCGCAGCTGTTATCCAGGCGCTGGATGGGAAATGCGCAACGCAGTGTGC
 ATATTTTATCTGGTTCTCCGAGCTCTGGACACACTGGAAGATGACATGACCATCAGTGTGAAAAGAAGG
 TCCCGCTGTTACACAACCTTCACTCTTTCTTTACCAACCAGACTGGCGTTTCATGGAGAGCAAGGAGAA
 GGATCGCCAGGTGCTGGAGGACTTCCCAACGATCTCCCTTGAGTTTAGAAATCTGGCTGAGAAATACCAA
 ACAGTGATTGCCGACATTTGCCGAGAATGGGCATTGGGATGGCAGATTTTTGGATAAGCATGTGACCT
 CTGAACAGGAGTGGGACAAGTACTGCCACTATGTTGCTGGGCTGGTCCGAATTGGCCTTTCCCGTCTTTT
 CTCAGCCTCAGAGTTTGAAGACCCCTTAGTTGGTGAAGATACAGAACGTGCCAACTCTATGGGCCTGTTT
 CTGCAGAAAACAAACATCATCCGTGACTATCTGGAAGACCAGCAAGGAGGAAGAGAGTTCTGGCCTCAAG
 AGGTTTGGAGCAGGTATGTTAAGAAGTTAGGGGATTTGCTAAGCCGGAGAATATTGACTTGGCCGTGCA
 GTGCCTGAATGAACCTATAACCAATGCACTGCACCACATCCCAGATGTCATCACCTACCTTTCGAGACTC
 AGAAACCAGAGTGTGTTAACTTCTGTGCTATTCACAGGTGATGGCCATTGCCACTTTGGCTGCCTGTT
 ATAATAACCAGCAGGTGTTCAAAGGGGCAGTGAAGATTTCGAAAAGGGCAAGCAGTGACCCCTGATGATGGA
 TGCCACCAATATGCCAGCTGTCAAAGCCATCATATATCAGTATATGGAAGAGATTTATCATAGAATCCCC
 GACTCAGACCCATCTTCTAGCAAAAAGGAGCAGATCATCTCCACCATCCGGACGCAGAATCTTCCCAACT
 GTCAGCTGATTTCCCGAAGCCACTACTCCCCATCTACCTGTCGTTTGTGATGCTTTGGCTGCCCTGAG
 CTGGCAGTACCTGACCACTCTCTCCAGGTAACAGAAGACTATGTTTCAGACTGGAGAACAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201392 representing NM_004462
 Red=Cloning site Green=Tags(s)

MEFVKCLGHPEEFYNLVRFRIGGKRKVMKMDQDSLSSSLKTCYRYLNQTSRSFAAVIQALDGEMRNAVC
 IFYLVLRALDTLEDDMTISVEKKVPLLHNHFSFLYQPDWRFMESKEKDRQVLEDFPTISLEFRNLAEKYQ
 TVIADICRRMGIGMAEFLDKHVTSEQEWKDYCHYVAGLVGIGLSRLFSASEFEDPLVGEDTERANSMGLF
 LQKTNIIRDYLEQQGGREFWPQEVWSRYVKKLGDFAKPENIDLAVQCLNELITNALHHIPDVITYLSRL
 RNQSVFNFCaipqVMAIATLAACYNQVFKGAVKIRKQAVTLMMDATNMPAVKAIYQYMEEIYHRIP
 DSDPSSSKTRQIISTIRTQNLPCQLISRSHYSPIYLSFVMLLAALSWQYLTTLSQVTEYVQTGEH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004462

ORF Size: 1251 bp

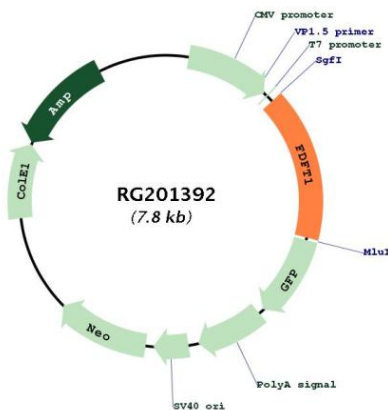
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM_004462.3, NP_004453.3</u>
RefSeq Size:	2115 bp
RefSeq ORF:	1254 bp
Locus ID:	2222
UniProt ID:	<u>P37268</u>
Cytogenetics:	8p23.1
Domains:	SQS_PSY
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Steroid biosynthesis
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 RG201392