

## Product datasheet for **SC335556**

### FDFT1 (NM\_001287744) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FDFT1 (NM_001287744) Human Untagged Clone
Tag:	Tag Free
Symbol:	FDFT1
Synonyms:	DGPT; ERG9; SQS; SQSD; SS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335556 representing NM_001287744. Blue=Insert sequence Red=Cloning site Green=Tag(s)

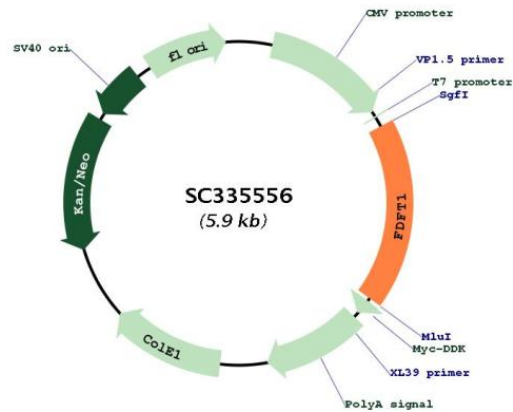
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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCGCAACGCGAGTGTGCATATTTTATCTGTTTCTCCGAGCTCTGGACACTGGAAGATGACATGACC
ATCAGTGTGAAAAGAAGGTCCCGCTGTACACAACCTTCACTCTTCTTTACCAACCAGACTGGCGG
TTCATGGAGAGCAAGGAGAAGGATCGCCAGGTGCTGGAGGACTTCCCAACGATCTCCCTTGAGTTTAGA
AATCTGGCTGAGAAATACCAACAGTGATTGCCGACATTTGCCGAGAATGGGCATTGGGATGCCAGAG
TTTTTGGATAAGCATGTGACCTCTGAACAGGAGTGGGACAAGTACTGCCACTATGTTGCTGGGCTGGTC
GGAATGGCCTTCCCGTCTTTTCTCAGCCTCAGAGTTTGAAGACCCCTTAGTTGGTGAAGATACAGAA
CGTGCCAACTCTATGGGCTGTTTCTGCAGAAAACAAACATCATCCGTGACTATCTGGAAGACCAGCAA
GGAGGAAGAGAGTTCTGGCCTCAAGAGGTTTGGAGCAGGTATGTTAAGAAGTTAGGGGATTTTGCTAAG
CCGGAGAATATTGACTTGGCCGTGCAGTGCCTGAATGAACCTTATAACCAATGCACTGCACCACATCCCA
GATGTCATCACCTACCTTTCGAGACTCAGAAAACAGAGTGTGTTAACTTCTGTGCTATTTCCACAGGTG
ATGGCCATTGCCACTTTGGCTGCCTGTTATAATAACCAGCAGGTGTTCAAAGGGGCGAGTGAAGATTCCG
AAAGGGCAAGCAGTGACCCTGATGATGGATGCCACCAATATGCCAGCTGTCAAAGCCATCATATATCAG
TATATGGAAGAGATTTATCATAGAATCCCCGACTCAGACCCATCTCTAGCAAAAACAGGCAGATCATC
TCCACCATCCGGACGCAGAATCTTCCCAACTGTCAGCTGATTTCCCGAAGCCACTACTCCCCATCTAC
CTGTCGTTTGTGATGCTTTTGGCTGCCCTGAGCTGGCAGTACCTGACCACTCTCTCCAGGTAACAGAA
GACTATGTTTCAGACTGGAGAACACTGA
ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



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## Plasmid Map:



ACCN: NM\_001287744

Insert Size: 1062 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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:**

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: [NM\\_001287744.1](#)

RefSeq Size: 2310 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:** 40.8 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]  
Transcript Variant: This variant (4) lacks 2 exons in the 5' region and initiates translation from an in-frame downstream start codon compared to variant 1. The resulting isoform (2) has a shorter N-terminus compared to isoform 1. Variants 4-8 encode the same isoform.