

Product datasheet for **RC238103**

FDFT1 (NM_001287742) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: FDFT1 (NM_001287742) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: FDFT1
Synonyms: DGPT; ERG9; SQS; SQSD; SS
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC238103 representing NM_001287742
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGTTCGTGAAATGCCTTGGCCACCCGAAGATTCTACAACCTGGTGCCTCCGGATCGGGGGCA
 AGCGGAAGGTGATGCCAAGATGGACCAGGACTCGCTCAGCAGCAGCCTGAAAATTGCTACAAGTATCT
 CAATCAGACCAGTCGCAGTTTCGCAGCTGTTATCCAGGCGCTGGATGGGAAAATGCGCAACGCAGTGTGC
 ATATTTTATCTGGTTCTCCGAGCTCTGGACACACTGGAAGATGACATGACCATCAGTGTGAAAAAGAAGG
 TCCCGCTGTTACACAACCTTCACTCTTTCTTTACCAACCAGACTGGCGGTTTCATGGAGAGCAAGGAGAA
 GGATCGCCAGGTGCTGGAGGACTTCCCAACGATCTCCCTTGAGTTTAGAAATCTGGCTGAGAAAATACCAA
 ACAGTGATTGCCGACATTTGCCGGAGAATGGGCATTGGGATGGCAGAGTTTTGGATAAGCATGTGACCT
 CTGAACAGGAGTGGGACAAGTACTGCCACTATGTTGCTGGGCTGGTCGGAATTGGCCTTTCCCGTCTTTT
 CTCAGCCTCAGAGTTTGAAGACCCCTTAGTTGGTGAAGATACAGAACGTGCCAACTCTATGGGCCTGTTT
 CTGCAGAAAACAACATCATCCGTGACTATCTGGAAGACCAGCAAGGAGGAAGAGAGTTCTGGCCTCAAG
 AGGTTTTGGAGCAGGTATGTTAAGAAGTTAGGGGATTTTGCTAAGCCGGAGAATATTGACTTGGCCGTGCA
 GTGCCTGAATGAACTTATAACCAATGCACTGCACCACATCCAGATGTCATCACCTTTTCGAGACTC
 AGAAACCAGAGTGTGTTAACTTCTGTGCTATTCCACAGGTGATGGCCATTGCCACTTTGGCTGCCTGTT
 ATAATAACCAGCAGGTGTTCAAAGGGCAGTGAAGATTCGAAAGGGCAAGCAGTGACCCTGATGATGGA
 TGCCACCAATATGCCAGCTGTCAAAGCCATCATATATCAGTATATGGAAGAGATTTATCATAGAATCCCC
 GACTCAGACCCATCTTCTAGCAAAAAGGCAGATCATCTCCACCATCCGGACGCAGAATCTTCCCAACT
 GTCAGCTGATTTCCGAAGCCACTACTCCCCATCTACCTGTCGTTTGTGATGCTTTGGCTGCCCTGAG
 CTGGCAGTACCTGACCACTCTCTCCAGGTAACAGAAGACTATGTTCCAGACTGGAGAACAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC238103 representing NM_001287742
Red=Cloning site Green=Tags(s)

MEFVKCLGHPEEFYNLVRFRIGGKRKVMKMDQDSLSSSLKTCYKYLNQTSRFAAVIQALDGEMRNAVCI
 IFYLVLRALDTLEDDMTISVEKKVPLLHNHFSFLYQPDWRFMESKEKDRQVLEDFPTISLEFRNLAEKYQ
 TVIADICRRMGIGMAEFLDKHVTSEQEWKDYCHYVAGLVGIGLSRLFSASEFEDPLVGEDTERANSMLGF
 LQKTNIIRDYLEDQGGREFWPQEVWSRYVKKLGDFAKPENIDLAVQCLNELITNALHHIPDVITYLSRL
 RNQSVFNFAIPQVMAIATLAACYNNQVFKGAVKIRKQAVTLMMDATNMPAVKAIYQYMEEIYHRIP
 DSDPSSSKTRQIISTIRTQNLPCQLISRSHYSPIYLSFVMLLAALSWQYLTTLSQVTEYVQTGEH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

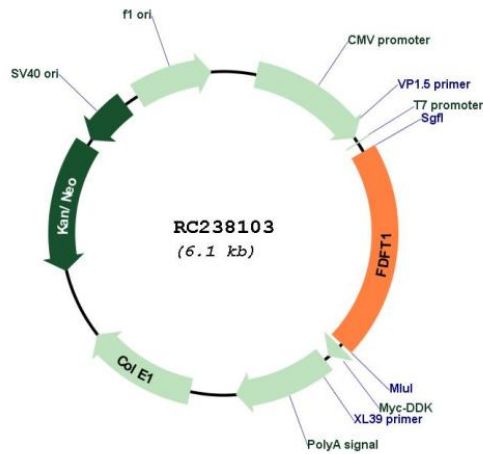
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001287742

ORF Size:	1251 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).
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:	NM_001287742.1 , NP_001274671.1
RefSeq Size:	2681 bp
RefSeq ORF:	1254 bp
Locus ID:	2222
UniProt ID:	P37268
Cytogenetics:	8p23.1
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Steroid biosynthesis
MW:	48.6 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]