

Product datasheet for RC201392

FDFT1 (NM_004462) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FDFT1 (NM_004462) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FDFT1
Synonyms:	DGPT; ERG9; SQS; SQSD; SS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201392 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGTTCGTGAAATGCCTCGGCCACCCGAAGATTCTACAACCTGGTGCCTCCGGATCGGGGGCA
AGCGGAAGGTGATGCCAAGATGGACCAGGACTCGCTCAGCAGCAGCCTGAAAACCTGCTACAGGTATCT
CAATCAGACCAGTCGCAGTTTCGCAGCTGTTATCCAGGCGCTGGATGGGAAATGCGCAACGCAGTGTGC
ATATTTTATCTGGTTCTCCGAGCTCTGGACACACTGGAAGATGACATGACCATCAGTGTGAAAAGAAGG
TCCCGCTGTTACACAACCTTCACTCTTTCCTTTACCAACCAGACTGGCGTTTCATGGAGAGCAAGGAGAA
GGATCGCCAGGTGCTGGAGGACTTCCCAACGATCTCCCTTGAGTTTAGAAATCTGGCTGAGAAATACCAA
ACAGTGATTGCCGACATTTGCCGAGAATGGGCATTGGGATGGCAGATTTTTGGATAAGCATGTGACCT
CTGAACAGGAGTGGGACAAGTACTGCCACTATGTTGCTGGGCTGGTCCGAATTGGCCTTTCCCGTCTTTT
CTCAGCCTCAGAGTTTGAAGACCCCTTAGTTGGTGAAGATACAGAACGTGCCAACTCTATGGGCCTGTTT
CTGCAGAAAACAAACATCATCCGTGACTATCTGGAAGACCAGCAAGGAGGAAGAGAGTTCTGGCCTCAAG
AGGTTTGGAGCAGGTATGTTAAGAAGTTAGGGGATTTGCTAAGCCGGAGAATATTGACTTGGCCGTGCA
GTGCCTGAATGAACCTTAAACCAATGCACTGCACCACATCCCAGATGTCATCACCTACCTTTCGAGACT
AGAAACCAGAGTGTGTTAACTTCTGTGCTATTCCACAGGTGATGGCCATTGCCACTTTGGCTGCCTGTT
ATAATAACCAGCAGGTGTTCAAAGGGGCGAGTGAAGATTTCGAAAAGGGCAAGCAGTGACCCCTGATGATGGA
TGCCACCAATATGCCAGCTGTCAAAGCCATCATATATCAGTATATGGAAGAGATTTATCATAGAATCCCC
GACTCAGACCCATCTTCTAGCAAAAAGGCGAGATCATCTCCACCATCCGGACGCAGAATCTTCCCAACT
GTCAGCTGATTTCCCGAAGCCACTACTCCCCATCTACCTGTCGTTTGTGATGCTTTTGGCTGCCCTGAG
CTGGCAGTACCTGACCACTCTCTCCAGGTAACAGAAGACTATGTTCCAGACTGGAGAACAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC201392 protein sequence
Red=Cloning site Green=Tags(s)

MEFVKCLGHPEEFYNLVRFRIGGKRKVKMPKMDQDSLSSSLKTCYRYLNQTSRSFAAVIQALDGMERNAVC
 IFYLVLRALDTLEDDMTISVEKKVPLLHNFHSFLYQPDWRFMESKEKDRQVLEDFPTISLEFRNLAEKYQ
 TVIADICRRMGIGMAEFLDKHVTSEQEWDKYCHYVAGLVGIGLSRLFSASEFEDPLVGEDTERANSMGLF
 LQKTNIIRDYLEQQGGREFWPQEVWSRYVKKLGDFAKPENIDLAVQCLNELITNALHHIPDVITYLSRL
 RNQSVFNFAIPQVMAIATLAACYNQVFKGAVLKIRKQAVTLMMDATNMPAVKAIYQYMEEIYHRIP
 DSDPSSSKTRQIISTIRTQNLPCQLISRSHYSPIYLSFVMLLAALSWQYLTTLSQVTEYVQTGEH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6052_g07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004462

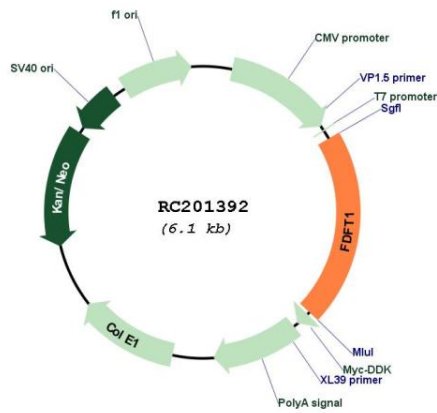
ORF Size: 1251 bp

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.

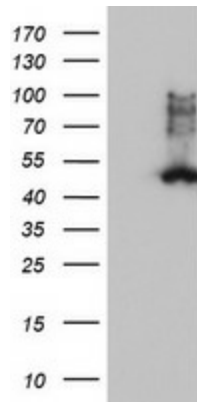
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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:	NM_004462.5
RefSeq Size:	2192 bp
RefSeq ORF:	1254 bp
Locus ID:	2222
UniProt ID:	P37268
Cytogenetics:	8p23.1
Domains:	SQS_PSY
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Steroid biosynthesis
MW:	48.1 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]

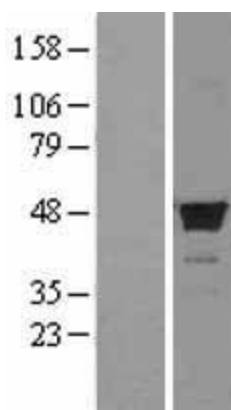
Product images:



Circular map for RC201392



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY FDFT1 (Cat# RC201392, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-FDFT1 (Cat# [TA503470]). Positive lysates [LY401419] (100ug) and [LC401419] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY401419]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201392 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FDFT1 protein (Cat# [TP301392]). The protein was produced from HEK293T cells transfected with FDFT1 cDNA clone (Cat# RC201392) using MegaTran 2.0 (Cat# [TT210002]).