

## Product datasheet for **RR206059**

### Fdft1 (NM\_019238) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Fdft1 (NM\_019238) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Fdft1  
**Synonyms:** MGC93486  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR206059 representing NM\_019238  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGTTCGTGAAGTGTCTAGGCCACCCGGAGGATTCTACAACCTGCTGCGATTCCGCATGGGAGGCC  
 GCGGAATTTTCATACCCAAGATGGACCGGAACCTCGCTCAGCAACAGCTTGAAGACTTGCTATAAGTATCT  
 TGATCAGACCAGTCGCAGCTTCGCCGCGGTTATCCAGGCGCTGGATGGGGACATACGTCATGCGGTGTGT  
 GTGTTTTACCTGATCCTCCGAGCCATGGACACAGTGGAGGATGACATGGCCATCAGTGTGGAGAAGAAGA  
 TCCCACTGCTGCCAACTTTCACTTTCTCTATGAGCCGGAGTGGCGGTTACCGAGAGCAAGGAGAA  
 GCACCGAGTAGTCTGGAGGACTTCCCCACGATCTCCCTGGAGTTTAGAAATTTGGCTGAGAAATATCAA  
 ACAGTGATCGCTGACATCTGTCACAGGATGGGATGTGGGATGGCAGAATTTCTAAACAAGGATGTAACCT  
 CCAAACAGGACTGGGACAAGTACTGTCACTATGTTGCTGGACTGGTGGGAATCGGCCTTTCTCGCCTATT  
 CTCTGCCCTCAGAGTTTGAAGATCCCATAGTTGGTGAAGACACAGAGTGTGCCAATTCATGGGTCTGTTT  
 CTGCAGAAAACAAATATCATTTCGTGATTATCTGGAAGACCAACAAGAAGGAAGACAGTTTTGGCCTCAAG  
 AGGTATGGGGCAAATATGTTAAGAAGCTGGAAGACTTTGTTAAGCCAGAGAACGTAGATGTGGCCGTGAA  
 GTGCTTGAATGAACTATAACCAACGCCCTACAACACATCCCTGACGTATCACCTACCTGTCAAGGCTC  
 CGGAACCAAAGTGTGTTAACTTCTGTGCCATTCCACAGGTAATGGCCATTGCTACGCTGCTGCTGTT  
 ACAATAACCATCAGGTATTCAAGGGAGTAGTGAAGATTCGGAAGGGGCAAGCAGTTACCCTCATGATGGA  
 TGCCACCAACATGCCAGCTGTCAAAGCTATCATATACCAGTACATAGAAGAGATTTATCACCGGGTCCCC  
 AACTCAGACCCGTCAGTAGCAAGGCCAAGCAGCTCATCTCCAACATCAGGACGCAGAGCCTTCCAATT  
 GCCAGCTCATCTCCGAAGCCACTACTCCCCATTTACCTGTCTTCATCATGCTCTTGGCTGCCCTGAG  
 CTGGCAGTACTTGAGCACTCTGTCCAGGTCACAGAAGACTATGTCCAGAGAGAACAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR206059 representing NM\_019238  
Red=Cloning site Green=Tags(s)

MEFVKCLGHPEEFYNLLRFRMGRRNFIPKMDRNSLSNSLKTCTYKYLDQTSRSFAAVIQALDGDIRHAVC  
 VFYLILRAMDTVEDDMAISVEKKIPLLRNFHTFLYEPWRFTESKEKHRVLEDFPTISLEFRNLAEKYQ  
 TVIADICHRMGGCGMAEFLNKDVT SKQDWDKYCHYVAGLVGIGLSRFLSASEFEDPIVGEDTECANSMGLF  
 LQKTNIIRDYLEDDQEGRQFWPQEVWGKYVKKLEDFVKPENVDVAVKCLNELITNALQHIPDVITYLSRL  
 RNQSVFNFAIPQVMAIATLAACYNNHQVFKGVVKIRKGOAVTLMMDATNMPAVKAIYQYIEEYHRVP  
 NSDPSASKAKQLISNIRTQSLPNCQLISRSHYSPIYLSFIMLLAALSQYLSTLSQVTEYVQREH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

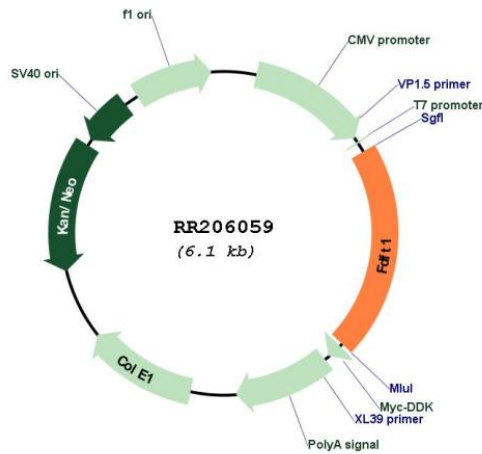
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_019238

|                               |   |
|-------------------------------|---|
| <b>ORF Size:</b>              | 1248 bp   |
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>  |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.  |
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol> |
| <b>RefSeq:</b>                | <a href="#">NM_019238.2</a> , <a href="#">NP_062111.1</a>   |
| <b>RefSeq Size:</b>           | 3173 bp   |
| <b>RefSeq ORF:</b>            | 1251 bp   |
| <b>Locus ID:</b>              | 29580   |
| <b>UniProt ID:</b>            | <a href="#">Q02769</a>  |
| <b>Cytogenetics:</b>          | 15p12   |
| <b>MW:</b>                    | 48.1 kDa  |
| <b>Gene Summary:</b>          | catalyzes the conversion of trans-farnesyl diphosphate to squalene; plays a role in biosynthesis of cholesterol and of isoprenoids [RGD, Feb 2006]  |