

Product datasheet for **MC215994**

Fads3 (NM_021890) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Fads3 (NM_021890) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Fads3 |
| Synonyms: | A1464531 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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Fully Sequenced ORF: >MC215994 representing NM_021890
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGCGGTGTCGGGAGCCCGGAGGGGACCCGGGCCGGGAGGGGCCCGCACCCGCTGGGGCGCCCC
TACCCATCTTCCGCTGGGAGCAGATCCGCCAGCATGACCTACCAGGCGACAAGTGGCTGGTCATCGAGCG
CCGTGTCTACGACATCAGCCGCTGGGCACAGCGCACCCAGGGGTAGCCGCCTCATCGGCCACACGGT
GCGGAGGACGCCACGGATGCCTTCCACGCCTTCCACCAAGATCTCCATTTTGTGCGCAAGTTCCTGAAAC
CCCTGTTGATTGGAGAGCTAGCCCCAGAGGAACCCAGCCAGGATGGAGCTCAGAAATGCCAGCTGATCGA
GGACTCCGAGCCTTGCGCCAGGCAGCTGAAGACATGAAGCTGTTTGAAGCTGATACCACTTTCTTTGCA
CTCCTGCTGGGCCACATCCTGGCTATGGAGTTGTTGGCCTGGCTTATCATCTACCTTTGGGCCCTGGCT
GGGTGCCAGTATCCTTGTGCCCTGATCCTGGCCATCTCTCAGGCCAGTGTGGTGTCTGCAACATGA
TCTAGGTCATGCTCCATCTTCACTAAGTCCAGGTGGAACCATGTGGCCAGCAGTTCGTGATGGGGCAG
TTGAAAGGCTTTCCGCCCACTGGTGAATTTCCGCCACTTCCAGCACCATGCCAAACCCAAACATCTTCC
ACAAAGACCCAGATGTGACTGTCGCACCTGTCTTCTCCTGGGGAGTCACTGTGGAGTATGGCAAGAA
GAAACGCAGATACCTGCCCTACAACCACAGCATCTATACTTCTTCTGATTGGCCCTCCGCTGCTCACC
TTGGTGAACCTTTGAAGTTGAAAATCTGGCGTACATGCTGGTGTGCATGCAGTGGACGGACTTGTGTGGG
CTGCCAGTTTCTACTCCCGCTTTTTCTTGTCTACTCTCCCTTCTATGGTCCACTGGGACACTGCTCCT
CTTTGTTGCTGTGAGGGTCTGGAGACCAGTGGTTCGTGTGGATCACGCAGATGAACCACATCCCCAAG
GAGATTGGCCATGAAAAGCATCGGGACTGGGCAAGCTCTCAGCTGGCAGCCACCTGCAATGTGGAACCTT
CGCTCTTCATTGACTGGTTCAGCGGGCACCTCAATTTCCAGATTGAGCACCACCTTTCCCACGATGCC
AAGGCACAACACTACCGGAGGGTGGCCCCCTGGTCAAGGCCTTCTGCGCCAAGCACGGCCTACACTACGAG
GTGAAGCCTTCTCACCCTCTGGTGGATATCATCGGGTCCCTGAAGAAGTCTGGCGACATCTGGCTGG
ATGCATACCTCCATCA**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_021890

Insert Size: 1350 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_021890.3](#), [NP_068690.3](#)

RefSeq Size: 3269 bp

RefSeq ORF: 1350 bp

Locus ID: 60527

UniProt ID: [Q9JJE7](#)

Cytogenetics: 19 A

Gene Summary: Acts as a methyl-end fatty acyl coenzyme A (CoA) desaturase that introduces a cis double bond between the preexisting double bond and the terminal methyl group of the fatty acyl chain. Desaturates (11E)-octadecenoate (trans-vaccenoate) at carbon 13 to generate (11E,13Z)-octadecadienoate, likely participating in the biohydrogenation pathway of linoleic acid (LA) (18:2n-6).[UniProtKB/Swiss-Prot Function]