

Product datasheet for **MR220952**

Fads3 (NM_021890) Mouse Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>MR220952 representing NM_021890
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCGGTGTCGGGAGCCCGGAGGGGACCCGGGCCGCGGGAGGGGCCCGCACCCGCTGGGGCGCCCC
 TACCCATCTTCCGCTGGGAGCAGATCCGCCAGCATGACCTACCAGGCGACAAGTGCTGGTCATCGAGCG
 CCGTGTCTACGACATCAGCCGCTGGGCACAGCGCACCCAGGGGTAGCCGCCTCATCGGCCACACGGT
 GCGGAGGACGCCACGGATGCCTTCCACGCCTTCCACCAAGATCTCCATTTTGTGCGCAAGTTCCTGAAAC
 CCCTGTTGATTGGAGAGCTAGCCCCAGAGGAACCCAGCCAGGATGGAGCTCAGAAATGCCAGCTGATCGA
 GGACTCCGAGCCTTGCGCCAGGCAGCTGAAGACATGAAGCTGTTTGAAGCTGATACCACCTTTCTTTGCA
 CTCCTGCTGGCCACATCCTGGCTATGGAGTTGTTGGCCTGGCTTATCATCTACCTTTGGGCCCTGGCT
 GGGTGTCCAGTATCCTTGTGCCCTGATCCTGGCCATCTCTCAGGCCAGTGTGGTGTCTGCAACATGA
 TCTAGGTCATGCTCCATCTTCACTAAGTCCAGGTGGAACCATGTGGCCAGCAGTTCGTGATGGGGCAG
 TTGAAAGGCTTTTCCGCCACTGGTGAATTTCCGCCACTTCCAGCACCATGCCAAACCCAAACATCTTCC
 ACAAAGACCCAGATGTGACTGTCGCACCTGTCTTCTCCTGGGGAGTCACTGTGGAGTATGGCAAGAA
 GAAACGCAGATACCTGCCCTACAACCACAGCATCTATACTTCTTCTGATTGGCCCTCCGCTGCTCACC
 TTGGTGAACCTTGAAGTTGAAAATCTGGCGTACATGCTGGTGTGCATGCAGTGGACGGACTTGCTGTGGG
 CTGCCAGTTTCTACTCCCGCTTTTTCTTGTCTACTCTCCCTTCTATGGTCCACTGGGACACTGCTCCT
 CTTTGTGCTGTGAGGTGCTGGAGAGCCACTGGTTCGTGTGGATCACGCAGATGAACCACATCCCCAAG
 GAGATTGGCCATGAAAAGCATCGGGACTGGGCAAGCTCTCAGCTGGCAGCCACCTGCAATGTGGAACCTT
 CGCTCTTCAATTGACTGGTTCAGCGGGCACCTCAATTTCCAGATTGAGCACACCTTTCCCCAGTACC
 AAGGCACAACACTACCGGAGGGTGGCCCCCTGGTCAAGGCGTTCTGCGCCAAGCACGGCCTACACTACGAG
 GTGAAGCCTTCTCACCCTCTGGTGGATATCATCGGGTCCCTGAAGAAGTCTGGCGACATCTGGCTGG
 ATGCATACCTCCATCAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR220952 representing NM_021890
 Red=Cloning site Green=Tags(s)

MGGVGEPPGGGPGPREGPAPLGAPLPIFRWEQIRQHDLPDGKWLVIERRVYDISRWAQRHPGGSRLLIGHHG
 AEDATDAFHAFHQDLHFVRKFLKPLLIGELAPEEPSQDGAQNAQLIEDFRALRQAAEDMKLFEADTTFFA
 LLLGHILAMELLAWLIIYLLGPGWVSSILAALILAISQAQCWCLQHDLGHASIFTKSRWNHVAQQFVMGQ
 LKGFSAHWWNFRHFQHHAKPNIFFHKDPDVTVAPVFLLEGSSVEYKKKRRYLPHYHQHLYFFLIGPPLLT
 LVNFEVENLAYMLVCMQWTDLLWAASFYSRFFLSYSPFYGATGTLILLFVAVRVLESHWFVWITQMNHIK
 EIGHEKHRDWASSQLAATCNVEPSLFDWFSGHLNFQIEHHLFPTMPRHNYRRVAPLVKAFCAKHGLHLYE
 VKPFLTALVDIIGSLKKSGLDIWLDAYLHQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9017_e12.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_021890

ORF Size: 1347 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:

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

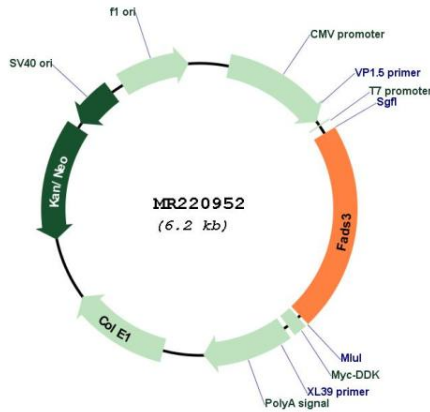
UniProt ID: [Q9JIE7](#)

Cytogenetics: 19 A

MW: 51.9 kDa

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]

Product images:



Circular map for MR220952