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Product datasheet for MG220952

Fads3 (NM_021890) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fads3 (NM_021890) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fads3
Synonyms:	AI464531
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>MG220952 representing NM_021890
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCGGTGTCGGGGAGCCCGGAGGGGGACCCGGGCCGCGGGAGGGGCCCGCACCGCTGGGGGCGCCCC
TACCCATCTTCCGCTGGGAGCAGATCCGCCAGCATGACCTACCAGGCGACAAGTGGCTGGTCATCGAGCG
CCGTGTCTACGACATCAGCCGCTGGGCACAGCGGCACCCAGGGGGTAGCCGCCTCATCGGCCACCACGGT
GCGGAGGACGCCACGGATGCCTTCCACGCCTTCCACCAAGATCTCCATTTTGTGCGCAAGTTCCTGAAAC
CCCTGTTGATTGGAGAGCTAGCCCCAGAGGAACCCAGCCAGGATGGAGCTCAGAATGCCCAGCTGATCGA
GGACTTCCGAGCCTTGCGCCAGGCAGCTGAAGACATGAAGCTGTTTGAAGCTGATACCACTTTCTTTGCA
CTCCTGCTGGGCCACATCCTGGCTATGGAGTTGTTGGCCTGGCTTATCATCTACCTCTTGGGCCCTGGCT
GGGTGTCCAGTATCCTTGCTGCCCTGATCCTGGCCATCTCTCAGGCCCAGTGCTGGTGTCTGCAACATGA
TCTAGGTCATGCTTCCATCTTCACTAAGTCCAGGTGGAACCATGTGGCCCAGCAGTTCGTGATGGGGCAG
TTGAAAGGCTTTTCCGCCCACTGGTGGAATTTCCGCCACTTCCAGCACCATGCCAAACCCAACATCTTCC
ACAAAGACCCAGATGTGACTGTCGCACCTGTCTTCCTCCTGGGGGAGTCATCTGTGGAGTATGGCAAGAA
GAAACGCAGATACCTGCCCTACAACCACCAGCATCTATACTTCTTCCTGATTGGCCCTCCGCTGCTCACC
TTGGTGAACTTTGAAGTTGAAAATCTGGCGTACATGCTGGTGTGCATGCAGTGGACGGACTTGCTGTGGG
CTGCCAGTTTCTACTCCCGCTTTTTCTTGTCCTACTCTCCCTTCTATGGTGCCACTGGGACACTGCTCCT
CTTTGTTGCTGTCAGGGTGCTGGAGAGCCACTGGTTCGTGTGGATCACGCAGATGAACCACATCCCCAAG
GAGATTGGCCATGAAAAGCATCGGGACTGGGCAAGCTCTCAGCTGGCAGCCACCTGCAATGTGGAACCTT
CGCTCTTCATTGACTGGTTCAGCGGGCACCTCAATTTCCAGATTGAGCACCACCTCTTCCCCACGATGCC
AAGGCACAACTACCGGAGGGTGGCCCCCCTGGTCAAGGCGTTCTGCGCCAAGCACGGCCTACACTACGAG
GTGAAGCCTTTCCTCACCGCTCTGGTGGATATCATCGGGTCCCTGAAGAAGTCTGGCGACATCTGGCTGG
ATGCATACCTCCATCAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

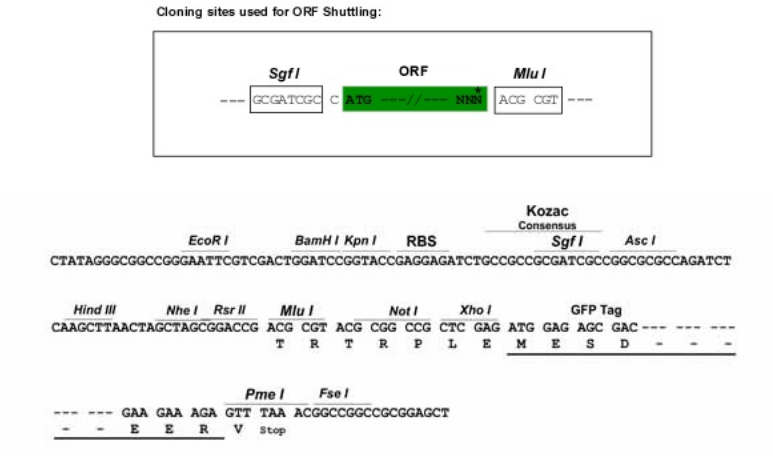
>MG220952 representing NM_021890
Red=Cloning site Green=Tags(s)

MGGVGEPGGGPGPREGPAPLGAPLPIFRWEQIRQHDLPGDKWLVIERRVYDISRWAQRHPGGSRLIGHHG
AEDATDAFHAFHQDLHFVRKFLKPLLIGELAPEEPSQDGAQNAQLIEDFRALRQAAEDMKLFEADTTFFA
LLLGHILAMELLAWLIIYLLGPGWVSSILAALILAISQAQCWCLQHDLGHASIFTKSRWNHVAQQFVMGQ
LKGFSAHWWNFRHFQHHAKPNIFHKDPDVTVAPVFLLGESSVEYGKKKRRYLPYNHQHLYFFLIGPPLLT
LVNFEVENLAYMLVCMQWTDLLWAASFYSRFFLSYSPFYGATGTLLLFVAVRVLESHWFVWITQMNHIPK
EIGHEKHRDWASSQLAATCNVEPSLFIDWFSGHLNFQIEHHLFPTMPRHNYRRVAPLVKAFCAKHGLHYE
VKPFLTALVDIIGSLKKSGDIWLDAYLHQ

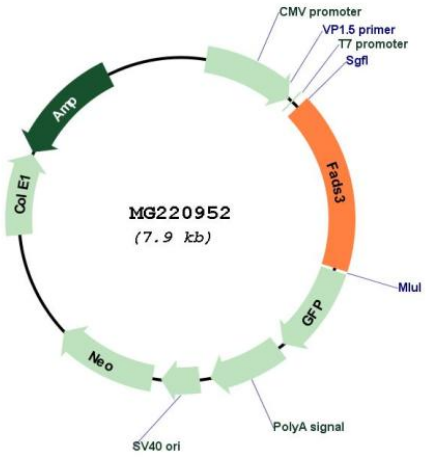
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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:	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]