

## Product datasheet for **MG202881**

### Fads3 (BC071266) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Fads3 (BC071266) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Fads3  
**Synonyms:** A1464531  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG202881 representing BC071266  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGCGGTGTCGGGGAGCCCGGAGGGGGACCCGGGCCGCGGGAGGGGCCCGCACCGCTGGGGGCGCCCC  
TACCCATCTTCCGCTGGGAGCAGATCCGCCAGCATGACCTACCAGGCGACAAGTGGCTGGTCATCGAGCG  
CCGTGTCTACGACATCAGCCGCTGGGCACAGCGGCACCCAGGGGGTAGCCGCCTCATCGGCCACCACGGT  
GCGGAGGACGCCACGGATGCCTTCCACGCCTTCCACCAAGATCTCATTGTCGCAAGTTCCTGAAAC  
CCCTGTTGATTGGAGAGCTAGCCCCAGAGGAACCCAGCCAGGATGGAGCTCAGAATGCCAGCTGATCGA  
GGACTCCGAGCCTTGCGCCAGGCAGCTGAAGACATGAAGCTGTTGAAGCTGATACCACTTTCTTTGCA  
CTCCTGCTGGGCCACATCCTGGCTATGGAGTTGTTGGCCTGGCTTATCATCTACCTTTGGCCCTGGCT  
GGGTGTCCAGTATCCTTGCTGCCCTGATCCTGGCCATCTCTCAGGCCAGTGCTGGTGTCTGCAACATGA  
TCTAGGTCATGCTTCCATCTTCACTAAGTCCAGGTGGAACCATGTGGCCAGCAGTTCGTGATGGGGCAG  
TTGAAAGTGAGTGTGGAGCGGGCGGCATCTGTGCTGGGTCTGTTCAAGTGTGCGGGTACCAAGTTGGA  
GCCAGCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG202881 representing BC071266  
 Red=Cloning site Green=Tags(s)

MGGVGEPPGGGPGPREGPAPLGAPLPIFRWEQIRQHDLPDGKWLVIERRVYDISRWAQRHPGGSRLLIGHHG  
 AEDATDAFHAFHQDLHFVRKFLKPLLIGELAPEEPSQDGAQNAQLIEDFRALRQAAEDMKLFEADTTFFA  
 LLLGHILAMELLAWLIIYLLPGWYSSILAALILAISQAQCWCLQHDLGHASIFTKSRWNHVAQQFVMGQ  
 LKVSVERGGHLCWVCCSSVRVPSWSPA

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** BC071266

**ORF Size:** 710 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:** [BC071266](#)

**RefSeq Size:** 1866 bp

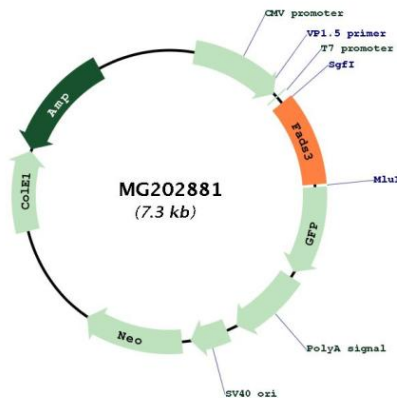
**RefSeq ORF:** 710 bp

**Locus ID:** 60527

**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]

**Product images:**



Circular map for MG202881