

Product datasheet for **RR214038**

Fads1 (NM_053445) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Fads1 (NM_053445) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Fads1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR214038 representing NM_053445
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCCCGACCCGGTGCAGACCCTGACCCGGCCTCCGCCAGCTCCGCCAAATGCGCTACTTTACTT
GGGAGGAGGTGGCGCAGCGCTCCGGGAGGAGAAGGAGCGATGGCTCGTGATCGACCCGGAAGGTGTACAA
CATCAGCGACTTCAGTCGCCGCCACCCGGGAGGCTCCCGGGTTCATCAGCCACTACGCTGGTCAGGATGCC
ACGGATCCTTTTGTGGCATTCCACATTAACAAGGGCCTTGTGAGAAAGTATATGAACTCTTCTGATTG
GAGAGCTAGTCCGGAGCAGCCAGCTTTGAACCCACCAAGAATAAGGCGCTCACTGATGAATCCGGGA
GCTGCGGGCCACAGTGGAGCGAATGGGCCTCATGAAAGCCAACCATCTTCTTCTGTTCTATCTGCTG
CACATCTGTGCTGGACGTGGCCGCTGGCTCACTCTTGGATCTTGGAACTTCCTTGGTGCCCTTCA
CCCTCTGTGCAGTGTGCTCAGTACAGTTCAGGCCAGGCAGGTTGGCTACAGCATGACTTTGGGCACCT
GTCCGTCTTCAGCACCTCAACATGGAATCACCTGGTACATCATTTTGTATTGGCCACCTGAAGGGGGCC
CCAGCCAGCTGGTGAACCACATGCATTTCCAGCACCCAGCCAAGCCAACTGCTCCGCAAGACCCCG
ATATCAACATGCATCCCCTCTTCTCGCCCTGGGGAAGGTCTTTCTGTGGAGCTTGGGAAAGAAAAGAA
GAAGCACATGCCATACAACCATCAGCACAAGTACTTCTTCTGATTGGACCCCGCCTTCTGCTCCTC
TACTTCCAGTGGTACATTTTCTATTTTGTGTTCAGCGGAAGAAATGGGTGGACTTGGCCTGGATGCTCA
GCTTCTATGTTCTGTCTTCTTCACTTACATGCCGCTGCTGGGGCTGAAAGGCCTCTATGTCTTTTCTT
CATTGTGACAGTTCCTGGAGGCAACTGGTTTGTGTGGGTGACGCAGATGAACCATATCCCATGCACATT
GATCATGACCCGGAATGTGGACTGGGTCTCCACCAGCTACAGGCAACCTGCAACGTTCCAGTCAAGCT
TCAACAACCTGGTTCAGTGGCCACCTCAATTTCCAGATTGAACACCACCTTCCCTACGATGCCACGACA
CAACTACCACAAGGTGGCACCCCTGGTACAATCTCTGTGCGCCAAGTACGGCATCAAGTATGAGTCCAAG
CCCCTGCTACGGCCTTCGCGGACATTGTTTACTCCCTGAAGGAGTCAGGACAGCTCTGGCTGGATGCTT
ACCTTCACCAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR214038 representing NM_053445
 Red=Cloning site Green=Tags(s)

MAPDPVQTPDPASAQLRQMRYFTWEEVAQRSGREKERWLVDRKVVNISDFSRRHPPGGSRVISHYAGQDA
 TDPFVAFHINKGLVRKYMNSLLIGELAPEQPSFEPTKNKALTDEFREL RATVERMGLMKANHLFFLYLL
 HILLLDVAAWLTLWIFGTSLVFPTLCVALLSTVQAQAGWLQDFGHLVSFSTSTWNHLVHHFVIGHLKGA
 PASWWNHMHFQHHAKPNCFRKDPDINMHPLFFALGKVL SVELGKEKKKHPYNHQHKYFFLIGPPALLPL
 YFQWYIFVFVQQRKKWVDLAWMLSFYVRVFFTYMPLLGLKGLLCLFFIVRFLESNWFVWVTQMNHIPMHI
 DHDRNVDWYSTQLQATCNVHQS AFNNWFSGHLNFQIEHHLFPTMPRHNYHKVAPLVQSLCAKYGIKYESK
 PLLTAFADIVYSLKESGQLWLDAYLHQ

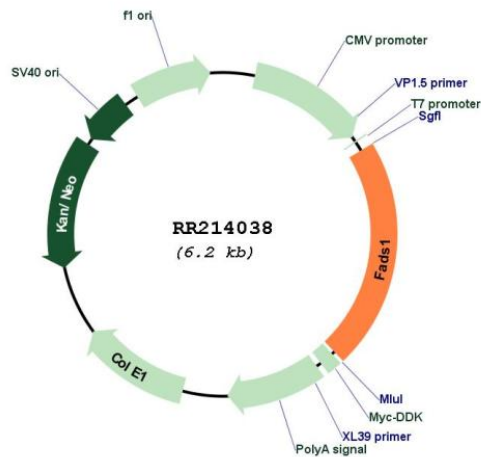
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_053445
ORF Size:	1341 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:	<ol style="list-style-type: none">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_053445.2 , NP_445897.2
RefSeq Size:	3380 bp
RefSeq ORF:	1344 bp
Locus ID:	84575
UniProt ID:	Q920R3
Cytogenetics:	1q43
MW:	52.5 kDa
Gene Summary:	catalyzes the Delta(5,6) desaturation of fatty acids of the n-6 and n-3 series [RGD, Feb 2006]