

## Product datasheet for **RN214038**

### Fads1 (NM\_053445) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fads1 (NM_053445) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Fads1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN214038 representing NM_053445 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTCCCGACCCGGTGCAGACCCTGACCCGGCCTCCGCCAGCTCCGCCAAATGCGCTACTTTACTT  
GGGAGGAGGTGGCGCAGCGCTCCGGGAGGAGAAGGAGCGATGGCTCGTGATCGACCCGGAAGGTGTACAA  
CATCAGCGACTTCAGTCGCCGCCACCCGGGAGGCTCCCGGTCATCAGCCACTACGCTGGTCAGGATGCC  
ACGGATCCTTTTGTGGCATTCCACATTAACAAGGGCCTTGTGAGAAAGTATATGAACTCTTCTGATTG  
GAGAGCTAGTCCGGAGCAGCCAGCTTTGAACCCACCAAGAATAAGGCGCTCACTGATGAATCCGGGA  
GCTGCGGGCCACAGTGGAGCGAATGGGCCTCATGAAAGCCAACCATCTTCTTCTGTTCTATCTGCTG  
CACATCTGTGCTGGACGTGGCCGCTGGCTCACTCTTGGATCTTGGAACTTCCTTGGTGCCTTCA  
CCCTCTGTGCAGTGTGCTCAGTACAGTTCAGGCCAGGCAGGTTGGCTACAGCATGACTTTGGGCACCT  
GTCCGTCTTCAGCACCTCAACATGGAATCACCTGGTACATCATTTTGTATTGGCCACCTGAAGGGGGCC  
CCAGCCAGCTGGTGAACCACATGCATTTCCAGCACCCAGCCAAGCCAACTGCTCCGCAAGACCCCG  
ATATCAACATGCATCCCCTCTTCTCGCCCTGGGGAAGGTCCTTCTGTGGAGCTTGGGAAAGAAAAGAA  
GAAGCACATGCCATACAACCATCAGCACAACTTCTTCTGATTGGACCCCGACCTTGTGCCTCTC  
TACTTCCAGTGGTACATTTTCTATTTTGTGTTCAGCGGAAGAAATGGGTGGACTTGGCCTGGATGCTCA  
GCTTCTATGTTCTGTCTTCTTCACTTACATGCCGCTGCTGGGGCTGAAAGGCCTCTATGTCTTTTCTT  
CATTGTGACGGTTCCTGGAGAGCAACTGGTTTGTGTGGGTGACGCAGATGAACCATATCCCATGCACATT  
GATCATGACCCGGAATGTGGACTGGGTCTCCACCAGCTACAGGCAACCTGCAACGTTCCACAGTCAGCCT  
TCAACAACCTGGTTCAGTGGCCACCTCAATTTCCAGATTGAACACCACCTTCCCTACGATGCCACGACA  
CAACTACCACAAGGTGGCACCCCTGGTACAATCTCTGTGCGCCAAGTACGGCATCAAGTATGAGTCCAAG  
CCCCTGCTCACGGCCTTCGCGGACATTGTTTACTCCCTGAAGGAGTCAGGACAGCTCTGGCTGGATGCTT  
ACCTTACCAATAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_053445
<b>Insert Size:</b>	1344 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_053445.2</a></u> , <u><a href="#">NP_445897.2</a></u>
<b>RefSeq Size:</b>	3380 bp
<b>RefSeq ORF:</b>	1344 bp
<b>Locus ID:</b>	84575
<b>UniProt ID:</b>	<u><a href="#">Q920R3</a></u>
<b>Cytogenetics:</b>	1q43
<b>Gene Summary:</b>	catalyzes the Delta(5,6) desaturation of fatty acids of the n-6 and n-3 series [RGD, Feb 2006]