

Product datasheet for **SC319457**

FADS3 (NM_021727) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FADS3 (NM_021727) Human Untagged Clone
Tag:	Tag Free
Symbol:	FADS3
Synonyms:	CYB5RP; LLCDL3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_021727.3
 CGCACGCTCGCTCGTACGGCGGCCCGGCGGCAGGGCGGGGCCGGAGCAGCGGGCGGCGG
 CGGAGGCGGGCCCGGGAGCGCTCTTCGCTTCCCTCGGGGTCTTGCTCGGACCTCGGCCA
 CCGCTGGGATCCCCAGGACTCGTGCCTGACAGCATGGGCGGCGTCCGGGAGCCGGGACCG
 CGGGAGGACCCGCGCAGCCGGGGCACCCTGCCACCTTCTGCTGGGAGCAGATCCGC
 GCGCACGACCAGCCCGGCACAAGTGGTGGTTCATCGAGCGCCGCTCTACGACATCAGC
 GCCTGGGCACAGCGGCACCCAGGGGGCAGCCGCCTCATCGGCCACCACGGCGCTGAGGAC
 GCCACGGATGCCTTCCGTGCCTTCCATCAAGATCTCAATTTTGTGCGCAAGTTCCCTACAG
 CCCCTGTTGATTGGAGAGCTGGCTCCGGAAGAACCAGCCAGGATGGACCCTGAATGCG
 CAGCTGGTTCGAGGACTTCCGAGCCCTGCACCAGGCAGCCGAGGACATGAAGCTGTTTGT
 GCCAGTCCCACCTTCTTTGCTTCTACTGGGCCACATCTGGCCATGGAGGTGCTGGCC
 TGGCTCCTTATCTACCTCCTGGTCTGGTGGTGGCCAGTGCCTGGCCGCTTCTATC
 CTGGCCATCTCTCAGGCTCAGTCTGGTGTCTGCAGCATGACCTGGGCCATGCCTCCATC
 TTCAAGAAGTCTGGTGAACCAGTGGCCAGAAGTTCGTGATGGGCGAGCTAAAGGGC
 TTCTCCGCCACTGGTGGAACTTCGCCACTTCCAGCACCACGCCAAGCCCAACATCTTC
 CACAAAGACCCAGACGTGACGGTGGCGCCGCTTCTCTCTGGGGAGTATCCGTCGAG
 TATGGCAAGAAGAAACGCAGATACCTACCTACAACCAGCAGCACCTGTACTTCTTCTG
 ATCGGCCCGCCGCTGCTCACCTGGTGAACCTTGAAGTGGAAAATCTGGCGTACATGCTG
 GTGTGCATGCAGTGGGCGGATTTGCTCTGGGCCCGCAGCTTCTATGCCCGCTTCTTTA
 TCCTACCTCCCCTTCTACGGCGTCCCTGGGGTGTGCTCTTCTTTGTTGCTGTCAGGGTC
 CTGAAAGCCACTGGTTCGTGTGGATCACACAGATGAACCACATCCCAAGGAGATCGGC
 CACGAGAAGCACCGGGACTGGGTGAGTCTCAGCTGGCAGCCACCTGCAACGTGGAGCCC
 TCATTTTACCACACTGGTTCAGCGGGCACCTCAACTTCCAGATCGAGCACCACTCTTC
 CCCAGGATGCCGAGACACAACACTACAGCCGGTGGCCCGCTGGTCAAGTGCCTGTGTGCC
 AAGCACGGCTCAGTACGAAGTGAAGCCCTTCTCACCGCGCTGGTGGACATCGTCAGG
 TCCCTGAAGAAGTCTGGTACATCTGGCTGGACGCCTACCTCCATCAGTGAAGGCAACAC
 CCAGGCGGGCAGAGAAGGGCTCAGGGCACCAGCAACCAAGCCAGCCCCCGCGGGATCGA
 TACCCCCACCCCTCCACTGGCCAGCCTGGGGTGCCTGCCTGCCCTCCTGGTACTGTTG
 TCTTCCCCTCGGCCCTCACATGTGTATTGAGCAGCCCTATGGCCTTGGCTCTGGGCT
 GATGGGACAGGGTAGAGGGAAGGTGAGCATAGCACATTTTCTAGAGCGAGAATTGGGG
 GAAAGCTGTTATTTTATATTAATAACATTTCAGATGTAATAAAAAAAAAAAAAAAAAAAAA
 AAAAAA

Restriction Sites: Please inquire

ACCN: NM_021727

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_021727.3 , NP_068373.1
RefSeq Size:	1807 bp
RefSeq ORF:	1338 bp
Locus ID:	3995
UniProt ID:	Q9Y5Q0
Cytogenetics:	11q12.2
Domains:	heme_1, FA_desaturase
Protein Families:	Transmembrane
Gene Summary:	The protein encoded by this gene is a member of the fatty acid desaturase (FADS) gene family. Desaturase enzymes regulate unsaturation of fatty acids through the introduction of double bonds between defined carbons of the fatty acyl chain. FADS family members are considered fusion products composed of an N-terminal cytochrome b5-like domain and a C-terminal multiple membrane-spanning desaturase portion, both of which are characterized by conserved histidine motifs. This gene is clustered with family members FADS1 and FADS2 at 11q12-q13.1; this cluster is thought to have arisen evolutionarily from gene duplication based on its similar exon/intron organization. [provided by RefSeq, Jul 2008]