

Product datasheet for **RC229252**

FADS1 (NM_013402) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FADS1 (NM_013402) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FADS1
Synonyms:	D5D; FADS6; FADSD5; LLCDL1; TU12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC229252 representing NM_013402
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGAACGCGCGCTGCGAGGCCGCGGTCTGCCTGCGGTGCTGAAAACCCGCGCGCAGCGCGCTGG
 CTCTGGGCGCGCCAGCAAATCCAATCCTGAGCCCGGACCCGAGCACGCGCTGACAGCCCTGC
 TGGCCCGCGCGCGCGTCCAGGCCAGCTATGGCCCCGACCCGGTGGCCGCGAGACGCGGCTCAG
 GGACCTACCCGCGCTACTTCACCTGGGACGAGGTGGCCAGCGCTCAGGGTGGAGGAGCGGTGGCTAG
 TGATCGACCGTAAGGTGTACAACATCAGCGAGTTCACCCGCCGCATCCAGGGGGCTCCCGGGTCATCAG
 CCACTACGCCGGCAGGATGCCACGGATCCCTTTGTGGCCTTCCACATCAACAAGGGCCTTGTGAAGAAG
 TATATGAAGTCTCTCTGATTGGAGAAGTCTCCAGAGCAGCCAGCTTTGAGCCACCAAGAATAAAG
 AGCTGACAGATGAGTCCGGGAGCTGCGGGCCACAGTGGAGCGGATGGGGCTCATGAAGGCCAACCATGT
 CTTCTTCTGCTGTACCTGCTGCACATCTTGTCTGGATGGTGCAGCCTGGCTCACCTTTGGGCTTT
 GGGACGTCTTTTTGCCCTTCTCTCTGTGCGGTGCTGCTCAGTGCAGTTCAGGCCAGGCTGGCTGGC
 TGACGATGACTTTGGGACCTGTCGGTCTCAGCACCTCAAAGTGAACCATCTGCTACATCATTTTGT
 GATTGGCCACCTGAAGGGGGCCCCGCCAGTTGGTGAACCACATGCACTTCCAGCACCATGCCAAGCCC
 AACTGCTTCCGCAAAGACCCAGACATCAACATGCATCCCTTCTTCTTGGCCTTGGGAAGATCCTCTCTG
 TGGAGCTTGGGAAACAGAAGAAAAAATATGCCGTACAACCACCAGCACAAATACTTCTCCTAATTGG
 GCCCCAGCCTTGCTGCCTCTCTACTCCAGTGGTATATTTCTATTTTGTATCCAGCGAAAGAAGTGG
 GTGGACTTGGCCTGGATGATTACCTTCTACGTCGGTCTTCTCACTTATGTGCCACTATTGGGCTGA
 AAGCCTTCTGGCCTTTTCTCATAGTCAGTTCTGGAAAGCAACTGGTTTGTGTGGTGACACAGAT
 GAACCATATTCCCATGCACATTGATCATGACCGGAACATGGACTGGGTTTCCACCCAGCTCCAGGCCACA
 TGCAATGTCCACAAGTCTGCCTCAATGACTGGTTCAGTGGACACCTCAACTTCCAGATTGAGCACCATC
 TTTTCCACGATGCCTCGACACAATTACCACAAAGTGGCTCCCCTGGTGCAGTCTTGTGTCCAAAGCA
 TGGCATAGAGTACCAGTCCAAGCCCTGCTGTCAGCCTTCGCCGACATCATCCACTACTAAAGGAGTCA
 GGGCAGCTCTGGCTAGATGCCTATCTTACCAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC229252 representing NM_013402
 Red=Cloning site Green=Tags(s)

MGTRAARPAGLPCGAENPARRRLLALGARQQIHSWSPRTPSTRLTAPAGPARGVARPAMADPVAETAQAQ
 GPTPRYFTWDEVAQRSGCEERWLVIDRKVYNISEFTRRHPPGSRVISHYAGQDATDPFVAFHINKGLVKK
 YMNSLLIGELSPEQPSFEPTKNKELTDEFREL RATVERMGLMKANHVFFLLYLLHILLLDGAAWLTLWVF
 GTSFLPFLLCVLLSAVQAQAGWLQHDFGHLVSVFSTSKWNHLLHHFVIGHLKGAPASWVNHMHFQHHAKP
 NCFRKDPDINMHPPFFALGKILSVELGKQKKYMPYNHQHKYFFLIGPPALLPLYFQWYIFYFVIQRKKW
 VDLAWMITFYVRFLLTYVPLLGLKAFGLFFIVRFLESNWFVWVTQMNHIPMHIDHNRNMDWVSTQLQAT
 CNVHKSADFNDWFSGHLNFQIEHHLFPTMPRHNYHKVAPLVQSLCAKHGIEYQSKPLL SAFADIHSLKES
 GQLWLDAYLHQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8063_g09.zip

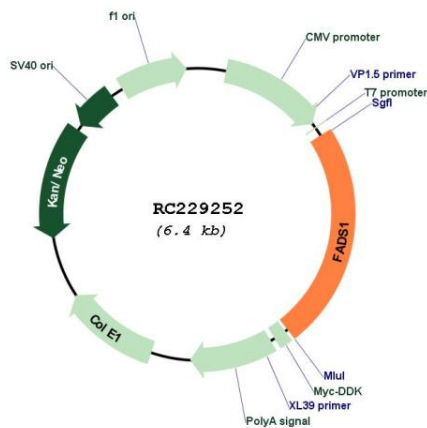
Restriction Sites:

Sgfl-Mlul

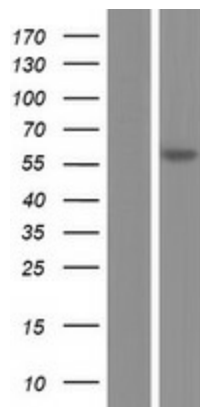
Protein Families: Transcription Factors, Transmembrane
Protein Pathways: Biosynthesis of unsaturated fatty acids
MW: 57.7 kDa

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]

Product images:



Circular map for RC229252



Western blot validation of overexpression lysate (Cat# [LY432272]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC229252 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).