

Product datasheet for **SC324251**

DEGS1 (NM_144780) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DEGS1 (NM_144780) Human Untagged Clone
Tag:	Tag Free
Symbol:	DEGS1
Synonyms:	DEGS; Des-1; DES1; FADS7; MGC5079; MIG15; MLD
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_144780.1
CACAGCCGGCCGACACCACACCAGCCGGGGAGCCGCCGCCGCCACCTCTGAGCA
GCCGGCTGGGAGCGAGAGCCGACAGCTAGTCTGCAAGCCACCGCTGTCCGCATGGGGAGC
CGCGTCTCGCGGGAAGACTTCGAGTGGGTCTACACCGACCAGCCGCACGCCGACCCGGCGC
CGGGAGATCCTGGCAAAGTATCCAGAGATAAAGTCCTTGATGAAACCTGATCCCAATTTG
ATATGGATTATAATTATGATGGTTCTCACCCAGTTGGTGCATTTTACATAGTAAAAGAC
TTGGACTGGAAATGGGTATATTTGGGGCCTATGCGTTTTGGCAGTTGCATTAACCACTCA
ATGACTCTGGCTATTCATGAGATTGCCACAATGCTGCCTTTGGCAACTGCAAAGCAATG
TGAATCGCTGGTTTGAATGTTTGCTAATCTTCTATTGGGATTCCATATTCAATTTCC
TTTAAGAGGTATCACATGGATCATCATCGGTACCTTGGAGCTGATGGCGTCGATGTAGAT
ATTCTACCGATTTTGGGGCTGGTTCTTCTGTACCGCTTTCAGAAAAGTTTATATGGGTT
ATTCTTCAGCCTCTCTTTATGCCTTTCGACCTCTGTTTCATCAACCCCAAACCAATTACG
TATCTGGAAGTTATCAATACCGTGGCACAGGTCACTTTTGACATTTTAAATTTACTTTT
TTGGGAATTAATCCTTAGTCTACATGTTGGCAGCATCTTACTTGGCCTGGGTTTGCAC
CCAATTTCTGGACATTTTATAGCTGAGCATTACATGTTCTTAAAGGGTCATGAAACTTAC
TCATATATGGGCCTCTGAATTTACTTACCTTCAATGTGGGTTATCATAATGAACATCAT
GATTTCCCAACATTCCTGGAAAAAGTCTTCCACTGGTGAGGAAAATAGCAGCTGAATAC
TATGACAACTCCCTCACTACAATTCCTGGATAAAAGTACTGTATGATTTGTGATGGAT
GATACAATAAGTCCCTACTCAAGAATGAAGAGGCCACCAAAAAGGAGAGATGGTGTGGAG
TAAATATCATTAGTGCCAAAGGGATTCTTCTCCAAAACCTTAGATGATAAAATGGAATTT
TTGCATTATTAACCTTGAGACCAGTGATGCTCAGAAGCTCCCCTGGCACAATTTCCAGAGT
AAGAGCTCGGTGATACCAAGAAGTGAATCTGGCTTTTAAACAGTCAGCCTGACTGTAC
TGCTCAGTTTCACTCACAGGAACTTGTGACTTGTGATTATCGTCATTGAGGATGTTTC
ACTCATGTCTGTCAATTTATAAGCATATCATTTAAAAAGCTTCTAAAAAGCTATTTTCGCC
AGGCACGGTGGCTCATGCCTATAATCCCAGCACTTTGGGAGGCCAAGGTGGTGGATCAC
CTGAGGTCAGGAGTTTCGAGACCAGCCTGGCCAACACGGTGAAACCCCATCTACTAAAA
ATGCAAAAATTAGCCGGGCGTGGCGGCACATGCCTGTAATCCCAGCTACATGGGAGGCTG
AGGTGGGAGAATTGCTTGAACCCAGGAGGCGGAGGCAGAGGCTGCAGTGACCCAAGATTG
TGCCACTGCACTCCACCCTGGGCAACAGAGCAAGACCCCATCTCAAAAATAAATAAATAT
ATATAAAAAATAAAAAGCTATTTCTAGTTTATTTCACTATAAAGTTTTGCTTTATTA
AGCTAATAAACAGCTATTAATCACAGTGTATTAGTATTTGTTACATTTTGTATTTCACT
ATCTTTATACTATATAATATGGTACTTGGGTACCGGGGAACTTTAAAAATTCATCTCA
AAAATAATTTTTAAAAAGCCTGAGGTATGATATAGCATAAAAGATTGAGATGAAAATATA
TTTCCCTGAAGCTGAATTACTCATTTAAAAATTTAACTTCTATATGGGACCCGAATTA
GACACTGCTGAATCCTGTACAGCCTTACTCATAAATAAAGTACTTACTGAATTTCCACCA
TTCAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_144780

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:

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_144780.1](#), [NP_659004.1](#)

RefSeq Size: 1681 bp

RefSeq ORF: 972 bp

Locus ID: 8560

Cytogenetics: 1q42.11

Domains: FA_desaturase

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Metabolic pathways, Sphingolipid metabolism

Gene Summary:

This gene encodes a member of the membrane fatty acid desaturase family which is responsible for inserting double bonds into specific positions in fatty acids. This protein contains three His-containing consensus motifs that are characteristic of a group of membrane fatty acid desaturases. It is predicted to be a multiple membrane-spanning protein localized to the endoplasmic reticulum. Overexpression of this gene inhibited biosynthesis of the EGF receptor, suggesting a possible role of a fatty acid desaturase in regulating biosynthetic processing of the EGF receptor. [provided by RefSeq, Mar 2010]
Transcript Variant: This variant (2) differs in the 3' UTR compared to variant 1. Both variants encode the same isoform.