

## Product datasheet for **SC124544**

### 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   |
| Vector:              | <u>pCMV6-XL5</u>  |
| E. coli Selection:   | Ampicillin (100 ug/mL)  |
| Cell Selection:      | None  |
| Fully Sequenced ORF: | >NCBI ORF sequence for NM_144780, the custom clone sequence may differ by one or more nucleotides |

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ATGGGGAGCCGCGTCTCGCGGAAGACTTCGAGTGGGTCTACACCGACCAGCCGACGCCGACCGGC  
GGGAGATCCTGGCAAAGTATCCAGAGATAAAGTCCTTGATGAAACCTGATCCCAATTTGATATGGATTAT  
AATTATGATGGTTCTCACCCAGTTGGGTGCATTTACATAGTAAAAGACTGGACTGAAATGGGTGATA  
TTTGGGGCCTATGCGTTTGGCAGTTGCATTAACCACTCAATGACTCTGGCTATTCATGAGATTGCCACA  
ATGCTGCCTTTGGCAACTGCAAAGCAATGTGGAATCGCTGGTTTGAATGTTGCTAATCTCTCTATTGG  
GATTCCATATTCAATTTCTTTAAGAGGTATCACATGGATCATCATCGGTACCTTGGAGCTGATGGCGTC  
GATGTAGATATTCTACCGATTTTGGGGCTGGTCTTCTGTACCGCTTTCAGAAAGTTTATATGGGTTA  
TTCTTCAGCCTCTCTTTATGCCTTTTCGACCTCTGTTCATCAACCCCAAACCAATTACGTATCTGGAAGT  
TATCAATACCGTGGCACAGGTCACCTTTTACATTTTAAATTTACTTTTGGGAATTAATCCTTAGTC  
TACATGTTGGCAGCATCTTACTTGGCCTGGGTTTGCACCAATTTCTGGACATTTTATAGCTGAGCATT  
ACATGTTCTTAAAGGGTCATGAACTTACTCATATTATGGGCCTCTGAATTTACTTACCTCAATGTGGG  
TTATCATAATGAACATCATGATTTCCCAACATTCCTGGAAAAAGTCTTCCACTGGTGAGGAAAAAGCA  
GCTGAATACTATGACAACCTCCCTCACTACAATTCCTGGATAAAAAGTACTGTATGATTTTGTGATGGATG  
ATACAATAAGTCCCTACTCAAGAATGAAGAGGCACCAAAAAGGAGAGATGGTCTGGAGTAA
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_144780 unedited  
 GGGGTTCAAATTTGTATACGACTCATATAGGCGGCCGCGAAATTCGCACGAGGCGCCGCC  
 GCCGCCACCTCTGAGCAGCCGGCTGGGAGCGAGAGCCGACAGCTAGTCTGCAAGCCACCG  
 CTGTCCGCATGGGGAGCCCGCTCTCGCGGAAGACTTCGAGTGGGTCTACACCGACCAGC  
 CGCAGCCGACCCGGCGCCGGGAGATCCTGGCAAAGTATCCAGAGATAAAGTCCTTGATGA  
 AACCTGATCCCAATTTGATATGGATTATAATTATGATGGTTCTCACCCAGTTGGGTGCAT  
 TTTACATAGTAAAAGACTTGGACTGGAAATGGGTCAATTTGGGGCCTATGCGTTTGGCA  
 GTTGCAATTAACCACTCAATGACTCTGGCTATTCATGAGATTGCCACAATGCTGCCTTTG  
 GCAACTGCAAAGCAATGTGGAATCGCTGGTTTGGAAATGTTTGCTAATCTTCTATTGGGA  
 TTCCATATTCAATTTCTTTAAGAGGTATCACATGGATCATCATCGGTACTTTGGAGCTG  
 ATGGCGTCGATGTAGATATTCCTACCGATTTTGGGGCTGGTTCTTCTGTACCGCTTTCA  
 GAAAGTTTATATGGGTTATTTCTCAGCCTCTCTTTTATGCCTTTCGACCTCTGTTTCATCA  
 ACCCCAAACCAATTACGTATCTGGAAGTTATCAATACCGTGGCACAGGTCACTTTTGACA  
 TTNTAATTTATTACTTTNTGGGGATTAATCCTTAGTCTACATNGTGGCAGCATCTTTAC  
 TTGGCCTGNGTTTGCACCAATTTCTGGACATTTTATAGCTGAGCATTACATGTNCTTAA  
 AGGGTCATGAAACTTACTCATATTATGGGCCTCTGAAATTACTTACCTTCAATGTGGGNT  
 ATCATNATGAACATCATA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_144780 unedited  
 GACCGCGGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
 TTGAAGGGGGGAAATTCAGTAAGTACTTTATTTATGAGTAAGGCTGTACAGGATTCAGCA  
 GTGTCTAATTCGGGTCCCATATAGAAGTTAAAATTTTAAATGAGTAATTCAGCTTACAG  
 GGAAATATATTTTCATCTCAATCTTTTATGCTATATCATACCTCAGGCTTTTTAAAAATT  
 ATTTTTGAGATGAAATTTTAAAGTTCCCCCGGTACCCAAGTTACCATATTATATAGTATA  
 AAGATAGGAAAATACAAAATGTAACAAATACTAATACTGGGATTAATAGCTGGTTAT  
 TAGCTTTTTAATAAAGCAAACTTTATAGGAAAATAAACTAAAAATAGCTTTTTATTTTT  
 TATATATATTTATTTATTTTGGAGAAGGGTCTTGCTCTGTTGCCAGGGTGGAGTGCAG  
 TGGCACAATCTTGGGTCACTGCAGCCTCTGCCTCCGCCTCCTGGGTTCAAGCAATCTCC  
 CACCTCAGCCTCCCATGTAGCTGGGATTACAGGCATGTGCCGCCACGCCCGGTAATTTT  
 TGCATTTTTAGTAAAGATGGGGTTACACCGTGTGGCCAGGCTGGTCTCGAACTCCTGAC  
 CTCAGGTGATCCACCCACCTTGGCCTCCCAAAGTGTGGGATTATAGGCATGAGCCACCG  
 TGCCTGGCGAAAATAGCTTTTTAGAAGCTTNTTAAATGATATGCTTATAAATGACAGACATG  
 AGTGAAACACCTCAATGACGATATACACCAGTCACAAGTTCCTGTGAGTGAAGTGAAGCG  
 TACAGAGTCAGCTGACTGTTAAAAGCAGATCACTTTTTGTATAACGACCTTTATCTGAAA  
 TGTGCAGGGAGCTCTGACCTCACTGCTCAAGTTATATGCAAAAATCCATTTATATCTAGG  
 TTGGAGAAAATNTTTGACCTAAGT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_144780

**Insert Size:**

5700 bp

|                               |  |
|-------------------------------|--|
| <b>OTI Disclaimer:</b>        | <p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p> |
| <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>                | <a href="#">NM_144780.1</a> , <a href="#">NP_659004.1</a>  |
| <b>RefSeq Size:</b>           | 1681 bp  |
| <b>RefSeq ORF:</b>            | 972 bp   |
| <b>Locus ID:</b>              | 8560   |
| <b>Cytogenetics:</b>          | 1q42.11  |
| <b>Domains:</b>               | FA_desaturase  |
| <b>Protein Families:</b>      | Druggable Genome, Transmembrane  |
| <b>Protein Pathways:</b>      | Metabolic pathways, Sphingolipid metabolism  |
| <b>Gene Summary:</b>          | <p>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]</p> <p>Transcript Variant: This variant (2) differs in the 3' UTR compared to variant 1. Both variants encode the same isoform.</p>   |