

Product datasheet for **SC117856**

DEGS1 (NM_003676) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DEGS1 (NM_003676) Human Untagged Clone
Tag:	Tag Free
Symbol:	DEGS1
Synonyms:	DEGS; DEGS-1; Des-1; DES1; FADS7; HLD18; MIG15; MLD
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117856 sequence for NM_003676 edited (data generated by NextGen Sequencing)

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ATGGGGAGCCCGTCTCGCGGGAAGACTTCGAGTGGGTCTACACCGACCAGCCGACGCC  
GACCGGCGCCGGAGATCCTGGCAAAGTATCCAGAGATAAAGTCCTTGATGAAACCTGAT  
CCCAATTTGATATGGATTATAATTATGATGGTTCTCACCCAGTTGGGTGCATTTTACATA  
GTAAAAGACTTGGACTGGAAATGGGTCAATTTGGGGCCTATGCGTTTGGCAGTTGCATT  
AACCACTCAATGACTCTGGCTATTCATGAGATTGCCACAATGCTGCCTTTGGCAACTGC  
AAAGCAATGTGGAATCGCTGGTTTGAATGTTTGCTAATCTTCTATTGGGATTCCATAT  
TCAATTTCTTTAAGAGGTATCACATGGATCATCATCGGTACCTTGGAGCTGATGGCGTC  
GATGTAGATATTCTACCGATTTTGGGGCTGGTCTTCTGTACCGCTTTCAGAAAGTTT  
ATATGGGTTATTCTTCAGCCTCTCTTTTATGCCTTTCGACCTCTGTTTCATCAACCCAAA  
CCAATTACGTATCTGGAAGTTATCAATACCGTGGCACAGGTCACCTTTGACATTTAATT  
TATTACTTTTTGGGAATTAATCCTTAGTCTACATGTTGGCAGCATCTTTACTTGGCCTG  
GGTTTGCACCCAATTTCTGGACATTTTATAGCTGAGCATTACATGTTCTTAAAGGTCAT  
GAACTTACTCATATTATGGGCCTCTGAATTTACTTACCTTCAATGTGGGTTATCATAAT  
GAACATCATGATTTCCCAACATTCCTGGAAAAAGTCTTCCACTGGTGAGAAAAATAGCA  
GCTGAATACTATGACAACCTCCCTCACTACAATTCCTGGATAAAAAGTACTGTATGATTTT  
GTGATGGATGATACAATAAGTCCCTACTCAAGAATGAAGAGGCACCAAAAAGGAGAGATG  
GTGCTGGAGTAA
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Clone variation with respect to NM_003676.2



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_003676 unedited</p> <pre> NGGTTACATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGGGAGCCGC CGCCGCCGCCACCTCTGAGCAGCCGGCTGGGAGCGAGAGCCGACAGCTAGTCTGCAA GCCACCCTGTGCCATGGGGAGCCGCTCTCGCGGAAGACTTCGAGTGGGTCTACACC GACCAGCCGCACGCCGACCGGCCGGGAGATCCTGGCAAAGTATCCAGAGATAAAGTCC TTGATGAAACCTGATCCCAATTTGATATGGATTATAATTATGATGGTTCTACCCAGTTG GGTGCATTTTACATAGTAAAAGACTTGGACTGGAATGGGTCATATTTGGGGCCTATGCG TTTGGCAGTTGCATTAACCACTCAATGACTCTGGCTATTCATGAGATTGCCACAATGCT GCCTTTGGCAACTGCAAAGCAATGTGGAATCGCTGGTTTGAATGTTTGCTAATCTTCT ATTGGGATTCCATATTCAATTTCTTTAAGAGGTATCACATGGATCATCATCGGTACCTT GGAGCTGATGGCGTCGATGTAGATATTCTACCGATTTTGAGGGCTGGTTCTTGTACC GCTTTCAGAAAGTTTATATGGGTATTCTTCAGCCTCTCTTTTATGCCTTTCGACCTCTG TTCATCAACCCCAAACCAATTACGTATCTGGAAGTTATCAATACCGTGGCACAGGTCCT TTTGACATTNTAATTTATTACTTTNTGGGAATTAATCCTTAGTCTACATGNTGGCAGCA TCTTTACTTGGCCTGGGTTTGCACCCCATTTCTGGACATTNTATAGCTGAGCATTACAT GTCTTAAAGGGTCATGAAACTTACTCATATTATGGGCCTCTGAATTTACTTACCTTCATG TGGTTATC </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_003676 unedited</p> <pre> GGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGAATTTGAATGGTGAAATTC GTAAGTACTTTATTTATAAGTAAGGCTGTACAGGATTCAGCAGTGTCTAATTCGGGTCCC ATATAGAAGTTAAAATTTTTAAATGAGTAATTCAGCTTACAGGAAATATATTTTCATCT CAATCTTTTATGCTATATCATACCTCAGGCTTTTTAAAAATTATTTTGGAGTGAATTT TAAAGTTCACCCCGTACCCAAGTTACACTATTATATAGTATAAAGATAGTGAAATACAAA AATGTAACAAATACTAATACTACTGTGATTAATAGCTGTTTATTAGCTTTTTAATAAAGCA AACTTTATAGTGAATAAACTAGAAACAGCTTTTTATTTTTTATATATATTTATTATT TTGAGATGGGGTCTTGCTCTGTGCGCCAGGGTGGAGTGCAGCGGCACAATTCTTGCGTC ACTGCAGCCTCTGCCTNCGCCTCCTGGGTTCAAGCAATTTCTTCCCTTAGCCCTCCCAT GTAGCCTGGGATTACAGGCATGTGCCCGCCACGTCCCGGCTAATTTCTGCATCCCTAGT ACAGCATGGGGCTTCACCCGTGTTGGCCAGGCTGGCCTTCGACCCTTGACCTTAGGTG ATCCACCCACCTGGCCCTCCAAGGGCTGGGACTATAGGCATGACCCCGTCCCGGGC GACAAAACACTACTCAAAGCCTCTTCAAGGACCGGCTATAAAATGCCGACCTGACCGAAACC TTCCCATGGACCACCCCCCAACAAGTTTCTTGCAGGAAACCGGGCCACACGAACC CGGGTACTGTTTAAAGCCACATTCACTCCTTGATCAACCGGACCTTACCTGGAATGG GCCCGGGAGCTTTGGCCTCCCTGGTTCAAGTTAAATGCAAACCCCTTACCCTAA TCCGGGAAACACCCCTGGGCCATGATTTACTCCACCCCTCTTCTTTGGGCCCTTCT CTCGAGGGGCTCTGTTACCCTACAAN </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_003676
Insert Size:	2050 bp
OTI Disclaimer:	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).
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_003676.2 , NP_003667.1
RefSeq Size:	2058 bp
RefSeq ORF:	972 bp
Locus ID:	8560
UniProt ID:	O15121
Cytogenetics:	1q42.11
Domains:	FA_desaturase
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Metabolic pathways, Sphingolipid metabolism
Gene Summary:	<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>