

Product datasheet for **RG212803**

DEGS1 (NM_003676) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DEGS1 (NM_003676) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DEGS1
Synonyms:	DEGS; DEGS-1; Des-1; DES1; FADS7; HLD18; MIG15; MLD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG212803 representing NM_003676 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGAGCCGCGTCTCGCGGAAGACTTCGAGTGGGTCTACACCGACCAGCCGACGCCGACCGGCGCC
GGGAGATCCTGGCAAAGTATCCAGAGATAAAGTCCTTGATGAAACCTGATCCCAATTTGATATGGATTAT
AATTATGATGGTTCTCACCCAGTTGGGTGCATTTACATAGTAAAAGACTTGGACTGGAAATGGGTGATA
TTTGGGGCCTATGCGTTTGGCAGTTGCATTAACCACTCAATGACTCTGGCTATTCATGAGATTGCCACA
ATGCTGCCTTTGGCAACTGCAAAGCAATGTGGAATCGCTGGTTTGAATGTTGCTAATCTCCTATTGG
GATTCCATATTCAATTTCTTTAAGAGGTATCACATGGATCATCATCGGTACCTTGGAGCTGATGGCGTC
GATGTAGATATTCTACCGATTTTGGGGCTGGTCTTCTGTACCGCTTTCAGAAAGTTTATATGGTTA
TTCTTCAGCCTCTCTTTATGCCTTTGACCTCTGTTTCATCAACCCCAAACCAATTACGTATCTGGAAGT
TATCAATACCGTGGCACAGGTCACCTTTTACATTTTAAATTTACTTTTTGGGAATTAATCCTTAGTC
TACATGTTGGCAGCATCTTACTTGGCCTGGTGTGCACCAATTTCTGGACATTTTATAGCTGAGCATT
ACATGTTCTTAAAGGGTCATGAACTTACTCATATTATGGGCCTCTGAATTTACTTACCTCAATGTGG
TTATCATAATGAACATCATGATTTCCCCAACATTCCTGGAAAAAGTCTTCCACTGGTGGGAAAAATAGCA
GCTGAATACTATGACAACCTCCCTCACTACAATTCCTGGATAAAAAGTACTGTATGATTTTGTGATGGATG
ATACAATAAGTCCCTACTCAAGAATGAAGAGGCACCAAAAAGGAGAGATGGTGTGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG212803 representing NM_003676
Red=Cloning site Green=Tags(s)

MGRSRVSRDFEWVYTDQPHADRRREILAKYPEIKSLMKPDPNLIWIIIMVLTLQGFYIVKDLDWKWI
 FGAYAFGSCINHSMTLAIHEIAHNAAFGNCKAMWNRWFGMFANLPIGIPYSISFKRYHMDHHRYLGDGV
 DVDIPTDFEGWFFCTAFRKFIVVILQPLFYAFRPLFINPKPITYLEVINTVAQVTFDILIIYYFLGIKSLV
 YMLAASLLGLGLHPI SGHFIAEHYMF LKGHETYSYYGPLNLLTFNVGYHNEHDFPNIPGKSLPLVRKIA
 AEYYDNLPHYNSWIKVLYDFVMDDTISPYSRMKRHQK GEMVLE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003676

ORF Size: 969 bp

OTI Disclaimer: 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_003676.4](#)

RefSeq Size: 2058 bp

RefSeq ORF: 972 bp

Locus ID: 8560

UniProt ID: [O15121](#)

Cytogenetics: 1q42.11

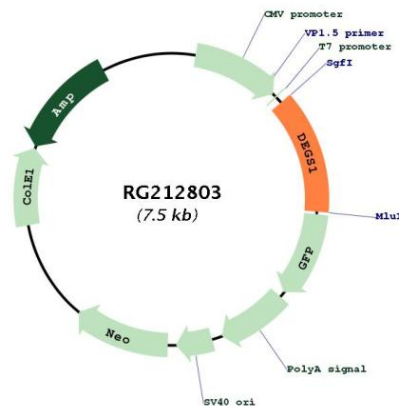
Domains: FA_desaturase

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Metabolic pathways, Sphingolipid metabolism

Gene Summary: 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]

Product images:



Circular map for RG212803