

Product datasheet for **RG201558**

DEGS1 (NM_144780) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DEGS1 (NM_144780) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DEGS1
Synonyms:	DEGS; Des-1; DES1; FADS7; MGC5079; MIG15; MLD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201558 representing NM_144780 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGAGCCGCTCTCGCGGAAGACTTCGAGTGGGTCTACACCGACCAGCCGACGCCGACCGCGCC
GGGAGATCCTGGCAAAGTATCCAGAGATAAAGTCCTTGATGAAACCTGATCCCAATTTGATATGGATTAT
AATTATGATGGTTCTCACCCAGTTGGGTGCATTTACATAGTAAAAGACTGGACTGGAAATGGGTGATA
TTTGGGGCCTATGCGTTTGGCAGTTGCATTAACCACTCAATGACTCTGGCTATTCATGAGATTGCCACA
ATGCTGCCTTTGGCAACTGCAAAGCAATGTGGAATCGCTGGTTTGAATGTTGCTAATCTTCTCTATTGG
GATTCCATATTCAATTTCTTTAAGAGGTATCACATGGATCATCATCGGTACCTTGGAGCTGATGGCGTC
GATGTAGATATTCTACCGATTTTGGGGCTGGTCTTCTGTACCGCTTTCAGAAAGTTTATATGGTTA
TTCTTCAGCCTCTCTTTATGCCTTTGACCTCTGTTTCATCAACCCAAACCAATTACGTATCTGGAAGT
TATCAATACCGTGGCACAGGTCACCTTTTACATTTTAAATTTACTTTTTGGGAATTAATCCTTAGTC
TACATGTTGGCAGCATCTTACTTGGCCTGGTGTGCACCAATTTCTGGACATTTTATAGCTGAGCATT
ACATGTTCTTAAAGGTCATGAACTTACTCATATTATGGGCCTCTGAATTTACTTACCTCAATGTGGG
TTATCATAATGAACATCATGATTTCCCCAACATTCCTGGAAAAAGTCTTCCACTGGTGGGAAAAATAGCA
GCTGAATACTATGACAACCTCCCTCACTACAATTCCTGGATAAAAAGTACTGTATGATTTTGTGATGGATG
ATACAATAAGTCCCTACTCAAGAATGAAGAGGCCACCAAAAAGGAGAGATGGTGTGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG201558 representing NM_144780
 Red=Cloning site Green=Tags(s)

MGRSVSREDFEWVYTDQPHADRRREILAKYPEIKSLMKPDPNLIWIIIMMVLTLQLGAFYIVKDLWDKWI
 FGAYAFGSCINHSMTLAIHEIAHNAAFGNCKAMWNRWFGMFANLPIGIPYSISFKRYHMDHRYLGADGV
 DVDIPTDFEGWFFCTAFRKFIVILQPLFYAFRPLFINPKPITYLEVINTVAQVTFDILIIYYFLGIKSLV
 YMLAASLLGLGLHPI SGHFIAEHYMF LKGHETYSYYGPLNLLTFNVGYHNEHDFPNIPGKSLPLVRKIA
 AEYYDNLPHYNSWIKVLYDFVMDDTISPYSRMKRHQK GEMVLE

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2186_e09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_144780

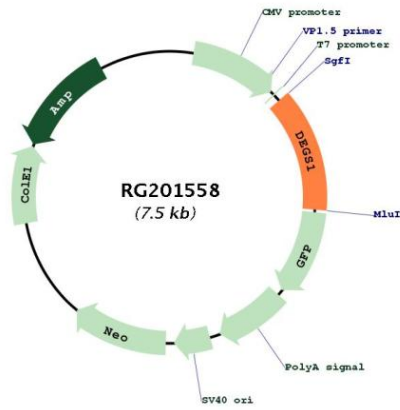
ORF Size: 969 bp

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 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:	<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:	<u>NM_144780.1</u> , <u>NP_659004.1</u>
RefSeq Size:	1681 bp
RefSeq ORF:	971 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]

Product images:



Circular map for RG201558