

## Product datasheet for **TP312803L**

### DEGS1 (NM\_003676) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human degenerative spermatocyte homolog 1, lipid desaturase (Drosophila) (DEGS1), transcript variant 1, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC212803 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MGSRVSREDFEWVYTDQPHADRRREILAKYPEIKSLMKPDPNLIWIIIMMVLTLQGFYIVKDLDWKWWI  
FGAYAFGSCINHSMTLAIHEIAHNAAFGNCKAMWNRWFGMFANLPIGIPYSISFKRYHMDHHRYLGDGV  
DVDIPTDFEGWFFCTAFRKFIVVILQPLFYAFRPLFINPKPITYLEVINTVAQVTFDILIIYFLGIKSLV  
YMLAASLLGLGLHPISGHFIAEHYMFLLKGHETYSYGPLNLLTFNVGYHNEHDFPNIPGKSLPLVRKIA  
AEYYDNLPHYNSWIKVLYDFVMDDTISPYSRMKRHQKGMVLE

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	37.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_003667</a>
Locus ID:	8560



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UniProt ID: [O15121](#), [A0A024R3P1](#)

RefSeq Size: 2101

Cytogenetics: 1q42.11

RefSeq ORF: 969

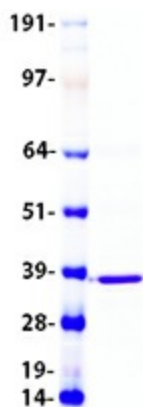
Synonyms: DEGS; DEGS-1; Des-1; DES1; FADS7; HLD18; MIG15; MLD

**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]

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Metabolic pathways, Sphingolipid metabolism

### Product images:



Coomassie blue staining of purified DEGS1 protein (Cat# [TP312803]). The protein was produced from HEK293T cells transfected with DEGS1 cDNA clone (Cat# [RC212803]) using MegaTran 2.0 (Cat# [TT210002]).