

## Product datasheet for **TP323780M**

### FADS2 (NM\_004265) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins  
**Description:** Recombinant protein of human fatty acid desaturase 2 (FADS2), 100 µg  
**Species:** Human  
**Expression Host:** HEK293T  
**Expression cDNA Clone or AA Sequence:** >RC223780 representing NM\_004265  
**Red**=Cloning site **Green**=Tags(s)

MGKGGNQGEGAAEREVSVP TFSWEEIQKHNLRTDRWLVIDRKVYNITKWSIQHPGGQRVIGHYAGEDATD  
AFRAFHPDLEFVGKFLKPLLIGELAPEEPSQDHGKNSKITEDFRALRKAEDMNLFKTNHVFFLLLLAHI  
IALESIAWFTVFYFGNGWIPTLITAFVLATSQAQAGWLQHDYGHLSVYRKPKWNHLVHKFVIGHLKGASA  
NWWNHRHFQHHAKPNIFHKDPDVMNLHVFLGEWQPIEYGKKKLYLPYNHQHEYFFLIGPPLLIPMYFQ  
YQIIMTMIVHKNWVDLAWAVSYIRFFITYIPFYGILGALLFLNFIRFLESHWFVWVTQMNHIVMEIDQE  
AYRDWFSSQLTATCNVEQSFFNDWFSGHLNFQIEHHLFPTMPRHNLHKKIAPLVKSLCAKHGIEYQEKPLL  
RALLDIIRSLKKSGLKWLDAYLHK

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK  
**Predicted MW:** 52.1 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:** [NP\\_004256](#)



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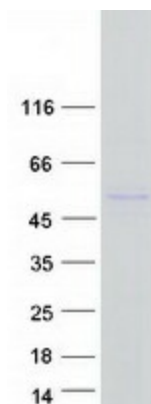
Locus ID: 9415  
UniProt ID: [O95864](#)  
RefSeq Size: 3149  
Cytogenetics: 11q12.2  
RefSeq ORF: 1332  
Synonyms: D6D; DES6; FADSD6; LLCDL2; SLL0262; TU13

**Summary:** The protein encoded by this gene is a member of the fatty acid desaturase (FADS) gene family. Desaturase enzymes regulate unsaturation of fatty acids through the introduction of double bonds between defined carbons of the fatty acyl chain. FADS family members are considered fusion products composed of an N-terminal cytochrome b5-like domain and a C-terminal multiple membrane-spanning desaturase portion, both of which are characterized by conserved histidine motifs. This gene is clustered with family members at 11q12-q13.1; this cluster is thought to have arisen evolutionarily from gene duplication based on its similar exon/intron organization. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2013]

**Protein Families:** Transmembrane

**Protein Pathways:** alpha-Linolenic acid metabolism, Biosynthesis of unsaturated fatty acids, PPAR signaling pathway

### Product images:



Coomassie blue staining of purified FADS2 protein (Cat# [TP323780]). The protein was produced from HEK293T cells transfected with FADS2 cDNA clone (Cat# [RC223780]) using MegaTran 2.0 (Cat# [TT210002]).