

## Product datasheet for **TP310954M**

### **THEM5 (NM\_182578) Human Recombinant Protein**

#### **Product data:**

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human thioesterase superfamily member 5 (THEM5), 100 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone  
or AA Sequence:** >RC210954 protein sequence  
**Red**=Cloning site **Green**=Tags(s)

MIRRCFQVAARLGHHRGLLEAPRILPRLNPASAFGSSTDSMFSRFLPEKTDLDYALPNASWCSDMLS  
LYQEFLEKTKSSGWIKLPSFKSNRDHIRGLKLPGLAVSSDKGDCRIFTRCIQVEGQGFYVIFQPTQKKS  
VCLFQPGSYLEGPPGFAHGGSLAAMMDETFSKTAFLAGEGLFTLSLNIRFKNLIPVDSLVMMDVEVDKIE  
DQKLYMSCIAHSRDQQTVYAKSSGVFLQLQLEEESQ

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK

**Predicted MW:** 27.5 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\\_872384](#)

**Locus ID:** 284486

**UniProt ID:** [Q8N1Q8](#)



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RefSeq Size: 1146

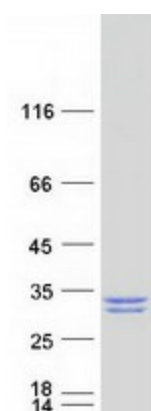
Cytogenetics: 1q21.3

RefSeq ORF: 741

Synonyms: ACOT15

**Summary:** Has acyl-CoA thioesterase activity towards long-chain (C16 and C18) fatty acyl-CoA substrates, with a preference for linoleoyl-CoA and other unsaturated long-chain fatty acid-CoA esters (PubMed:22586271). Plays an important role in mitochondrial fatty acid metabolism, and in remodeling of the mitochondrial lipid cardiolipin (PubMed:22586271). Required for normal mitochondrial function (PubMed:22586271).[UniProtKB/Swiss-Prot Function]

### Product images:



Coomassie blue staining of purified THEM5 protein (Cat# [TP310954]). The protein was produced from HEK293T cells transfected with THEM5 cDNA clone (Cat# [RC210954]) using MegaTran 2.0 (Cat# [TT210002]).