

## Product datasheet for **TP309119M**

### **GPT2 (NM\_133443) Human Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant protein of human glutamic pyruvate transaminase (alanine aminotransferase) 2 (GPT2), transcript variant 1, 100 µg
<b>Species:</b>	Human
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>RC209119 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MQRAAALVRRGCGPRTPSSWGRSQSSAAAEASAVLKVRPERSRRERILTLESMNPQVKAVEYAVRGPVIL  
KAGEIELELQRIKKPFTEVIRANIGDAQAMGQQPITFLRQVMALCTYPNLLDSPSPEDAKKRARRILQ  
ACGGNSLGSYSASQGVNCIREDVAAYITRRDGGVPADPDNIYLTGASDGISTILKLVSGGGKSRGTGVM  
IPIQYPLYSAVISELDAIQVNYLDEENCWALNVNELRRAVQEAKDHCDPKVLCIINPGNPTGQVQSRK  
CIEDVIHFAWEEKLFLLADEVYQDNVYSPDCRFHSFKKVLVYEMGPEYSSVELASFHSTSKGYMGECGYR  
GGYMEVINLHPEIKGQLVKLLSVRLCPPVSGQAAMDIVVNPVAGEESFEQFSREKESVLGNLAKKAKLT  
EDLFNQVPGIHCNPLQGAMYAFPRIFIPAKAVEAAQAHQMAPDMFYCMKLEETGICVWPGSGFGQREGT  
YHFRMTILPPVEKLTVLQKVKDFHINFLEKYA

**SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV**

<b>Tag:</b>	C-Myc/DDK
<b>Predicted MW:</b>	57.7 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.



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**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\\_597700](#)

**Locus ID:** 84706

**UniProt ID:** [Q8TD30](#), [A0A024R6R2](#)

**RefSeq Size:** 3963

**Cytogenetics:** 16q11.2

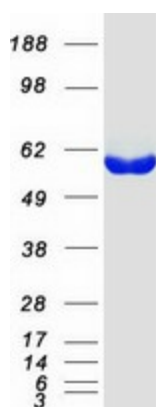
**RefSeq ORF:** 1569

**Synonyms:** ALT2; GPT 2; MRT49; NEDSPM

**Summary:** This gene encodes a mitochondrial alanine transaminase, a pyridoxal enzyme that catalyzes the reversible transamination between alanine and 2-oxoglutarate to generate pyruvate and glutamate. Alanine transaminases play roles in gluconeogenesis and amino acid metabolism in many tissues including skeletal muscle, kidney, and liver. Activating transcription factor 4 upregulates this gene under metabolic stress conditions in hepatocyte cell lines. A loss of function mutation in this gene has been associated with developmental encephalopathy. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2015]

**Protein Pathways:** Alanine, aspartate and glutamate metabolism, Metabolic pathways

### Product images:



Coomassie blue staining of purified GPT2 protein (Cat# [TP309119]). The protein was produced from HEK293T cells transfected with GPT2 cDNA clone (Cat# [RC209119]) using MegaTran 2.0 (Cat# [TT210002]).