

# Recombinant Full Length Human GPT2 Protein, GST-tagged

Cat. No. GPT2-5574HF Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human GPT2 full-length ORF ( NP_597700.1, 1 a.a. - 523 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	523 amino acids
<b>Description</b>	GPT (MIM 138200) and GPT2 (EC 2.6.1.2), also known as alanine transaminases, are pyridoxal enzymes that catalyze the reversible transamination between alanine and 2-oxoglutarate to form pyruvate and glutamate. By mediating the conversion of these 4 major intermediate metabolites, these transaminases have roles in gluconeogenesis and in amino acid metabolism.[supplied by OMIM
<b>Molecular Mass</b>	84.3 kDa
<b>AA Sequence</b>	<p>           MQRAAALVRRGCGPRTTPSSWGRSQSSAAAEASAVLKVRPERSRRERILTLESMNP            QVKAVEYAVRGPVILKAGEIELELQRGIKKPFTEVIRANIGDAQAMGQQPITFLRQVM            ALCTYPNLLDSPSPEDAKKRARRILQACGGNSLGSYSASQGVNCIREDVAAAYITRR            DGGVPADPDNIYLTTGASDGISTILKILVSGGGKSRGTGVMIPQYPLYSAVISELDAIQ            VNYYLDEENCWALNVNELRRAVQEAKDHCDPKVLCIINPGNPTGQVQSRKCIEDVIH            FAWEEKLFLLADEVYQDNVYSPDCRFHSFKKVLVYEMGPEYSSNVELASFHSTSKGY            MGECGYRGGYMEVINLHPEIKGQLVKLLSVRLCPPVSGQAAMDIVNPPVAGEESF            EQFSREKESVLGNLAKKAKLTEDLFNQVPGIHCNPLQGAMYAFPRIFIPAKAVEAAQ         </p>

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AHQMAPDMFYCMKLEETGICVVPGSGFGQREGTYHFRMTILPPVEKLKTVLQKVK  
DFHINFLEKYA

**Applications**  
Enzyme-linked Immunoabsorbent Assay  
Western Blot (Recombinant protein)  
Antibody Production  
Protein Array

**Notes**  
Best use within three months from the date of receipt of this protein.

**Storage**  
Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**  
50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name**  
GPT2 glutamic pyruvate transaminase (alanine aminotransferase) 2 [ Homo sapiens ]

**Official Symbol**  
GPT2

**Synonyms**  
GPT2; glutamic pyruvate transaminase (alanine aminotransferase) 2; alanine aminotransferase 2; ALT2; GPT 2; glutamic--alanine transaminase 2; glutamic--pyruvic transaminase 2; glutamic-pyruvate transaminase 2; glutamate pyruvate transaminase 2;

**Gene ID**  
84706

**mRNA Refseq**  
NM\_001142466

**Protein Refseq**  
NP\_001135938

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<b>MIM</b>	138210
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<b>UniProt ID</b>	Q8TD30
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