

Product datasheet for PH309119

OriGene Technologies, Inc.

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GPT2 (NM 133443) Human Mass Spec Standard

Product data:

Product Type: Mass Spec Standards

Description: GPT2 MS Standard C13 and N15-labeled recombinant protein (NP_597700)

Species: Human **HEK293 Expression Host: Expression cDNA Clone**

or AA Sequence:

RC209119

Predicted MW: 57.9 kDa

>RC209119 protein sequence **Protein Sequence:**

Red=Cloning site Green=Tags(s)

MQRAAALVRRGCGPRTPSSWGRSQSSAAAEASAVLKVRPERSRRERILTLESMNPQVKAVEYAVRGPIVL KAGEIELELQRGIKKPFTEVIRANIGDAQAMGQQPITFLRQVMALCTYPNLLDSPSFPEDAKKRARRILQ ACGGNSLGSYSASQGVNCIREDVAAYITRRDGGVPADPDNIYLTTGASDGISTILKILVSGGGKSRTGVM IPIPQYPLYSAVISELDAIQVNYYLDEENCWALNVNELRRAVQEAKDHCDPKVLCIINPGNPTGQVQSRK CIEDVIHFAWEEKLFLLADEVYQDNVYSPDCRFHSFKKVLYEMGPEYSSNVELASFHSTSKGYMGECGYR GGYMEVINLHPEIKGQLVKLLSVRLCPPVSGQAAMDIVVNPPVAGEESFEQFSREKESVLGNLAKKAKLT EDLFNQVPGIHCNPLQGAMYAFPRIFIPAKAVEAAQAHQMAPDMFYCMKLLEETGICVVPGSGFGQREGT

YHFRMTILPPVEKLKTVLQKVKDFHINFLEKYA

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDK**V**

C-Myc/DDK Tag:

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Concentration: >0.05 µg/µL as determined by microplate BCA method

Labeling Method: Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3

Store at -80°C. Avoid repeated freeze-thaw cycles. Storage:

Stable for 3 months from receipt of products under proper storage and handling conditions. Stability:

RefSeq: NP 597700

RefSeq Size: 3963 RefSeq ORF: 1569





GPT2 (NM_133443) Human Mass Spec Standard - PH309119

Synonyms: ALT2; GPT 2; MRT49; NEDSPM

Locus ID: 84706

UniProt ID: Q8TD30, A0A024R6R2

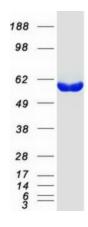
Cytogenetics: 16q11.2

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]).