

Product datasheet for RC226830L4V

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GPT2 (NM_001142466) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type: Lentiviral Particles

Product Name: GPT2 (NM_001142466) Human Tagged ORF Clone Lentiviral Particle

Symbol: GPT2

Synonyms: ALT2; GPT 2; MRT49; NEDSPM

Mammalian Cell

Selection:

Puromycin

Vector: pLenti-C-mGFP-P2A-Puro (PS100093)

Tag: mGFP

ACCN: NM_001142466

ORF Size: 1564 bp

ORF Nucleotide

The ORF insert of this clone is exactly the same as(RC226830).

Sequence:

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

RefSeq: NM 001142466.2, NP 001135938.1

 RefSeq Size:
 3879 bp

 RefSeq ORF:
 1272 bp

 Locus ID:
 84706

 UniProt ID:
 Q8TD30

 Cytogenetics:
 16q11.2

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

MW: 57.7 kDa







Gene 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]