

Product datasheet for **RC209119L3V**

GPT2 (NM_133443) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	GPT2 (NM_133443) Human Tagged ORF Clone Lentiviral Particle
Symbol:	GPT2
Synonyms:	ALT2; GPT 2; MRT49; NEDSPM
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_133443
ORF Size:	1569 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC209119).
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_133443.1
RefSeq Size:	3963 bp
RefSeq ORF:	1572 bp
Locus ID:	84706
UniProt ID:	Q8TD30
Cytogenetics:	16q11.2
Domains:	aminotran_1_2
Protein Pathways:	Alanine, aspartate and glutamate metabolism, Metabolic pathways

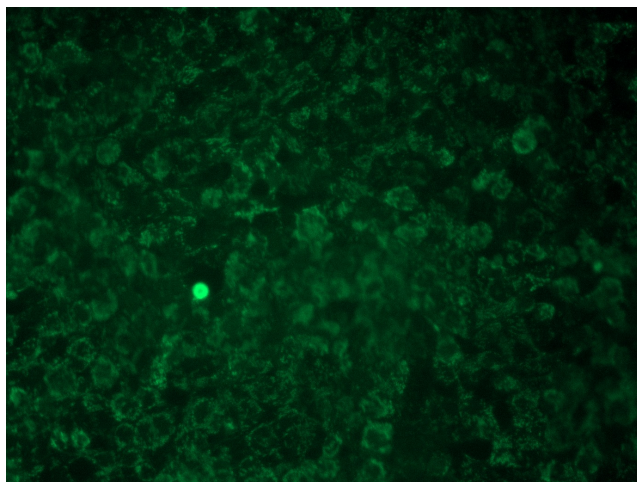


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MW: 57.9 kDa

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]

Product images:



[RC209119L3] was used to prepare Lentiviral particles using [TR30037] packaging kit. HEK293T cells were transduced with RC209119L3V particle to overexpress human GPT2-Myc-DDK fusion protein.