

Product datasheet for RC202475L3

OriGene Technologies, Inc.

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Phosphoserine Aminotransferase (PSAT1) (NM 058179) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Phosphoserine Aminotransferase (PSAT1) (NM_058179) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: Phosphoserine Aminotransferase

Synonyms: EPIP; NLS2; PSA; PSAT; PSATD

Mammalian Cell

Selection:

Puromycin

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

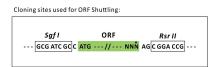
ORF Nucleotide

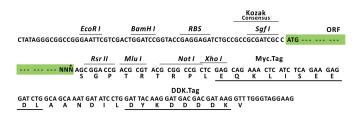
The ORF insert of this clone is exactly the same as(RC202475).

Sequence:

Restriction Sites: Sgfl-Rsrll

Cloning Scheme:





st The last codon before the Stop codon of the ORF.

ACCN: NM_058179

ORF Size: 1110 bp





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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.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube

containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method: 1. Centrifuge at 5,000xg for 5min.

2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.

3. Close the tube and incubate for 10 minutes at room temperature.

4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid

at the bottom.

aminotran 5

5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of

shipping when stored at -20°C.

RefSeq: NM 058179.2

 RefSeq Size:
 2221 bp

 RefSeq ORF:
 1113 bp

 Locus ID:
 29968

 UniProt ID:
 Q9Y617

Cytogenetics: 9q21.2

Domains:

Protein Pathways: Glycine, serine and threonine metabolism, Metabolic pathways, Vitamin B6 metabolism

MW: 40.2 kDa

Gene Summary: This gene encodes a member of the class-V pyridoxal-phosphate-dependent

aminotransferase family. The encoded protein is a phosphoserine aminotransferase and decreased expression may be associated with schizophrenia. Mutations in this gene are also associated with phosphoserine aminotransferase deficiency. Alternative splicing results in multiple transcript variants. Pseudogenes of this gene have been defined on chromosomes 1,

3, and 8. [provided by RefSeq, Jul 2013]