

Product datasheet for **SC324380**

Phosphoserine Aminotransferase (PSAT1) (NM_058179) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phosphoserine Aminotransferase (PSAT1) (NM_058179) Human Untagged Clone
Tag:	Tag Free
Symbol:	Phosphoserine Aminotransferase
Synonyms:	EPIP; NLS2; PSA; PSAT; PSATD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_058179.2
 GCCAGGAACGCCAGCCGTTACAGCGTTCGGTCCCTCTGGCTGACTCACCGCCCTCGCCG
 CCGCACCATGGACGCCCCAGGCAGGTGGTCAACTTTGGGCTGGTCCCAGCAAGCTGCC
 GCACTCAGTGTGTTAGAGATACAAAAGGAATTATTAGACTACAAAGGAGTTGGCATTAG
 TGTTCTTGAATGAGTCACAGGTCATCAGATTTTGCCAAGATTATTAACAATACAGAGAA
 TCTTGTGCGGGAATTGCTAGCTGTTCCAGACAATAAGGTGATTTTTCTGCAAGGAGG
 TGGGTGCGGCCAGTTCACTGCTGTCCCTTAAACCTCATTGGCTTGAAAGCAGGAAGGTG
 TCGGACTATGTGGTGACAGGAGCTTGGTCAGCTAAGGCCGAGAAAGCAAGAAAGTT
 TGGGACTATAAATATCGTTCACCCTAAACTTGGGAGTTATACAAAAATTCCAGATCCAAG
 CACCTGGAACCTCAACCCAGATGCCTCCTACGTGTATTATTGCGCAAATGAGACGGTGCA
 TGGTGTGGAGTTTGACTTTATACCCGATGTCAAGGGAGCAGTACTGGTTTGTGACATGTC
 CTCAAACCTCCTGTCCAAGCCAGTGGATGTTTCCAAGTTTGGTGTGATTTTTGCTGGTGC
 CCAGAAGAATGTTGGCTCTGCTGGGGTCACCGTGGTATTGTCCGTGATGACCTGCTGGG
 GTTTGCCCTCCGAGAGTCCCTCGGTCTGGAATACAAGGTGCAGGCTGAAACAGCTC
 CTTGTACAACACGCCTCCATGTTTCAGCATCTACGTGATGGGCTTGGTTCTGGAGTGGAT
 TAAAAACAATGGAGGTGCCGCGGCCATGGAGAAGCTTAGCTCCATCAAATCTCAAACAAT
 TTATGAGATTATTGATAATTCTCAAGGATTCTACGTTTGTCCAGTGGAGCCCCAAAATAG
 AAGCAAGATGAATATCCATTCCGCATTGGCAATGCCAAAGGAGATGATGCTTTAGAAAA
 AAGATTTCTTGATAAAGCTCTTGAACCTCAATATGTTGCTTGAAGGGCATAGGTCTGT
 GGGAGGCATCCGGGCTCTCTGTATAATGCTGTACAATTGAAGACGTTCCAGAAGCTGGC
 CGCCTTCATGAAAAATTTTGGAGATGCATCAGCTATGAACACATCCTAACCCAGGATAT
 ACTCTGTTCTTGAACAACATACAAAGTTTAAAGTAACTTGGGGATGGCTACAAAAAGTTA
 ACACAGTATTTTTCTCAAATGAACATGTTTATTGCAGATTCTTTTTTTGAAAGAACAA
 CAGCAAAAACATCCACAACCTCTGTAAGCTGGTGGGACCTAATGTACCTTAATTCTGACT
 TGAACCTGGAAGCATTTTTAAGAAATCTTGTGCTTTTCTAACAAATCCCAGCTATTTTGC
 CTTTGTGCTACTTTTTCTAGTTAGATTCAAACCTGCCTGTGGACTTAATAATGCAAGT
 TGCGATTAATTATTTCTGGAGTCATGGGAACACACAGCACAGAGGGTAGGGGGCCCTCT
 AGGTGCTGAATCTACACATCTGTGGGTCTCCTGGTTCCAGCGCTGTTGATTCAAGGTC
 AACATTGACCATTGGAGGAGTGGTTAAGAGTCCAGGCGAAGGGCAAACCTGTAGATCGA
 TCTTTATGCTGTTATTACAGGAGAAGTGACATACTTTATATATGTTTATATTAGCAAGGT
 CTGTTTTTAATACCATATACTTTATATTTCTATACATTTATATTTCTAATAATACAGTTA
 TCACTGATATATGTAGACACTTTTGAATTTATTAATCCTTGACCTTGTGCATTATAGC
 ATTCCATTAGCAAGAGTTGTACCCCTCCCAAGTCTTCGCTTCTCTTTTTAAGCTGTT
 TTATGAAAAAGACCTAGAAGTCTTGATTCATTTTTACCATTCTTTCCATAGGTAGAAGA
 GAAAGTTGATTGGTTGGTTGTTTTCAATTATGCCATTAACCTAAACATTTCTGTAAAT
 TACCCTATCCTTTGTTCTACTGTTTTCTTGTAAATGTATGACTACGAGAGTGATACTT
 TGCTGAAAAGTCTTTCCCTATTGTTTATCTATTGTGAGTATTTTATGTTGAATATGTAA
 AGAACATTAAGTCTTAAACATCTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_058179

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:	<ol style="list-style-type: none">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.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:	<u>NM_058179.2</u> , <u>NP_478059.1</u>
RefSeq Size:	2221 bp
RefSeq ORF:	1113 bp
Locus ID:	29968
UniProt ID:	<u>Q9Y617</u>
Cytogenetics:	9q21.2
Domains:	aminotran_5
Protein Pathways:	Glycine, serine and threonine metabolism, Metabolic pathways, Vitamin B6 metabolism
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1, also known as PSAT beta).</p>