

Product datasheet for **SC107928**

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:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC107928 sequence for NM_058179 edited (data generated by NextGen Sequencing)

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ATGGACGCCCCAGGCAGGTGGTCAACTTTGGGCCTGGTCCCGCCAAGCTGCCGCACTCA
GTGTTGTTAGAGATACAAAAGGAATTATTAGACTACAAAAGGAGTTGGCATTAGTGTCTT
GAAATGAGTCACAGGTCATCAGATTTTGCCAAGATTATTAACAATACAGAGAATCTTGTG
CGGAATTGCTAGCTGTTCCAGACAATAAGGTGATTTTCTGCAAGGAGGTGGGTGC
GGCCAGTTCAGTGTCCCTTAAACCTCATTGGCTTAAAAGCAGGAAGGTGTGCTGAC
TATGTGGTGACAGGAGCTTGGTCAGCTAAGGCCGAGAAGAAGCCAAGAAGTTGGGACT
ATAAATATCGTTCACCCTAAACTTGGGAGTTATACAAAATTCAGATCCAAGCACCTGG
AACCTCAACCCAGATGCCTCCTACGTGTATTATTGCGCAAATGAGACGGTGCATGGTGTG
GAGTTTGACTTTATACCCGATGTCAAGGGAGCAGTACTGGTTTGTGACATGTCTCAAAC
TTCCTGTCCAAGCCAGTGGATGTTTCCAAGTTTGGTGTGATTTTGTGCTGGTGCCAGAAG
AATGTTGGCTCTGCTGGGGTACCGTGGTATTGTCCGTGATGACCTGCTGGGGTTTGGC
CTCCGAGAGTGCCCTCGGTCTGGAATACAAGGTGCAGGCTGGAAACAGCTCCTGTAC
AACACGCCTCCATGTTTCAGCATCTACGTATGGGCTTGGTTCTGGAGTGGATTAACAAAC
AATGGAGGTGCCGCGCCATGGAGAAGCTTAGCTCCATCAAACTCAAACAATTTATGAG
ATTATTGATAATTCTCAAGGATTCTACGTTTGTCCAGTGGAGCCCCAAAATAGAAGCAAG
ATGAATATTCCATTCCGATTGGCAATGCCAAAGGAGATGATGCTTTAGAAAAAAGATTT
CTTGATAAAGCTTTGAACTCAATATGTTGTCTTGAAGGGCATAGGTCTGTGGGAGGC
ATCCGGGCTCTGTATAATGCTGTACAATTGAAGACGTTTCAAGAGCTGGCCGCCCTTC
ATGAAAAAATTTTGGAGATGCATCAGCTATGA

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Clone variation with respect to NM_058179.2



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_058179 unedited</p> <pre>GCATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGGTTCGGTCCTCCTT GGCTGACTCACCGCCCTCGCCGCCGACCATGGACGCCCCAGGCAGGTGGTCAACTTTG GGCCTGGTCCCAGCAAGCTGCCGCACTCAGTGTGTTAGAGATACAAAAGGAATTATTAG ACTACAAAGGAGTTGGCATTAGTGTCTTGAATGAGTACAGGTCATCAGATTTTGCCA AGATTATTAACAATACAGAGAATCTTGTGCGGGAATTGCTAGCTGTTCCAGACAATA TTGGCTTGAAAGCAGGAAGGTGTGCGGACTATGTGGTGACAGGAGCTTGGTCAGCTAAGG CCGCAGAGAAGCCAAGAAGTTTGGGACTATAAATATCGTTCACCCTAAACTTGGGAGTT ATACAAAATTCAGATCCAAGCACCTGGAACCTCAACCCAGATGCCTCCTACGTGTATT ATTGCGCAATGAGACGGGCATGGTGTGGNAGTTTGACTTTATACCCGATGTCAGGGAG CAGTACTGGGTTTGTGACATGCCTCAAACCTCCTGTCCAAGCGNTGGNATGTTCCAAGT TTTGGTGTGATTTTGTGGTGCCTCAAAGAATGTTGGCTCTGCTGGGGCACCGGGGNGGA TTGTCCGTGAGACTGCTGGGGGTTTGCCTCCGAGAGGCCCTCGTCTGGAATACAGG GTGCAGCTGGAACAGCTCCTTGACACACGCTNCATGTTAGCATCTACGTATGGGGCTTG GGTTTGGGGAGTGTATAACAAATGGGAGTGCCGCGCCATGAAAGCTAA</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_058179 unedited</p> <pre>GGCACGCAATCTAGAATCGAGTTTTTTTTTTTTTTTTTATAGATGTTTTAGGACTTTAATG TTCTTTACATATTCAACATAAAATACTGACAATAGATAAACAATAGGGGAAAGACTTTTC AGCAAAGTACTCTCGTAGTCATACATTACAAAGAAAACAGTAGAGAACAAGGATAG GGTAATTTAACAGAAATGTTTAGTTAATGGCATAATTGAAAAACAACCAACCAATCAAC TTTCTCTTCTACCTATGGAAGAATGGTAAAAATGAATCAAGAAGTCTAGGTCTTTTTTC ATAAACAGCTTAAAAAGAGGAAGGCGAAGACTGGGGAGGGGTACAACCTTTGCTAATG GAATGCTATAATGCACAAGGTCAGGATTTAATAAATTCTAAAAGTGTCTACATATATCA GTGATAACTGTATTATTAGAAATATAAATGTATAGAAATATAAAGTATATGGTATTAATA ACAGACCTTGCTAATATAACATATATAAAGTATGTCACTTCTCCTGTAATAACAGCATA AAGATCGATCTACAGTTTGCCTTCGCCTGGCACTCTTAAACCACTCCTCCAATGGTCAA TGTTGACCTTGAATCAACAGCCGCTGAACCCAGGAGACCCACAGATGTGTAGATTACAGC ACCTAGAGGGCCCCCTACCCTCTGTGCTGTGTGTTCCCATGACTCCAGAAATAATTAAT CGCAACTTGCATTATTAAGTCCACAGGGCAAGTTGAAATCTAACTAGAAAAAGTAGCAGC AAAGGCAAAATACGCGGGGATTTGTTAGAAAAGGCACAAGATTCTTAAATGCTTCAGNTC AGTCAGAAATAGGTGACATTANGTCCACCACTTACAGAGTGNGGATGTTTTGCTGTGCTT CAAAAGAAGATCTGCATAACAGTCATTGAGAAATACTGGTACTTTTGAGCATCCCAGTAC TTAAC</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_058179
Insert Size:	2190 bp
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).
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:	NM_058179.2 , NP_478059.1
RefSeq Size:	2221 bp
RefSeq ORF:	1113 bp
Locus ID:	29968
UniProt ID:	Q9Y617
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>