

Product datasheet for **RG224645**

Phosphoserine Aminotransferase (PSAT1) (NM_021154) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phosphoserine Aminotransferase (PSAT1) (NM_021154) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PSAT1
Synonyms:	EPIP; NLS2; PSA; PSAT; PSATD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG224645 representing NM_021154 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACGCCCCAGGCAGGTGGTCAACTTTGGCCTGGTCCCAGCTGCCGACTCAGTGTGTTAG
AGATACAAAAGGAATTATTAGACTACAAAGGAGTTGCCATTAGTGTCTTGAAATGAGTCACAGGTCATC
AGATTTTGCCAAGATTATTAACAATACAGAGAATCTTGCGGGAATTGCTAGCTGTTCCAGACAACTAT
AAGGTGATTTTCTGCAAGGAGGTGGTGCGGCCAGTTCAGTGTGTCCCCTAAACCTCATTGGCTTGA
AAGCAGGAAGGTGTGCTGACTATGTGGTGACAGGAGCTTGGTCAGCTAAGGCCGAGAAGAAGCCAAGAA
GTTTGGGACTATAAATATCGTTCACCCTAACTTGGGAGTTATACAAAATTCCAGATCCAAGCACCTGG
AACCTCAACCCAGATGCCTCCTACGTGTATTATTGCGCAAATGAGACGGTGCATGGTGTGGAGTTTGACT
TTATACCCGATGTCAAGGGAGCAGTACTGGTTTGTGACATGTCCTCAAACCTCCTGTCCAAGCCAGTGGA
TGTTTCCAAGTTTGGTGTGATTTTGTGGTGCCAGAAGAAATGTTGGCTCTGCTGGGGTACCCTGGTG
ATTGTCGGTGTGACCTGCTGGGTTTGGCCTCCGAGAGTGCCCTCGGTCTGGAATACAAGGTGCAGG
CTGAAACAGCTCCTTGTACAACACGCCATGTTTACGATCTACGTCATGGGCTTGGTCTGGAGTG
GATTAACAAATGGAGGTGCCGCGCCATGGAGAAGCTTAGCTCCATCAAATCTCAAACAATTTATGAG
ATTATTGATAATTCTCAAGGATTCTACGTGTCTGTGGGAGGCATCCGGGCTCTGTATAATGCTGTCA
CAATTGAAGACGTTCAGAAGCTGGCCGCCTTCATGAAAAATTTTGGAGATGCATCAGCTA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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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:	<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_021154.5
RefSeq Size:	2083 bp
RefSeq ORF:	975 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:	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]