

Product datasheet for **MC227309**

Psat1 (NM_001205339) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Psat1 (NM_001205339) Mouse Untagged Clone
Tag: Tag Free
Symbol: Psat1
Synonyms: D8Erttd814e; EPIP; PSA; Psat
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC227309 representing NM_001205339
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTCTCGTGGCCGGGAGCCCATGGACCAGCTGTCCAAGCTGCTATCTGGTATTGTTGGAGATCCAGA
 AGCAGCTACTAGACTACAGAGGACTCGGCATCAGTGTGCTCGAAATGAGTCACAGGTCATCAGATTTTGC
 CAAGATTATTGGCAATACAGAGAATCTTGTGAGGGAATTGCTAGCTGTTCCCAACAACACTACAAGGTGATC
 TTTGTACAAGGAGGTGGGTCTGGCCAGTTCAAGTGTGCCCTTAAATCTGATTGGCCTGAAAGCTGGAA
 GGAGTGTGACTACGTGGTGACCGGAGCTTGGTCAGCTAAGGCTGCGGAAGAAGCCAAGAAGTTTGGAAAC
 GGTGAACATTGTCCACCCTAACTTGAAGTTACACAAAATTCCAGACCAAGCACCTGGAACCTCAAC
 CCGGACGCCTCTATGTATACTTCTGTGCAACGAGACTGTGCACGGGTGGAGTTTGACTTCGTACCTG
 ACGTCAAGGGAGCGGTGCTGGTCTGTGACATGCCTCAAATCTTATCCAGGCCGGTGGATGTTTCCAA
 GTTTGGTGTGATTTTCGCTGGTGTCTCAGAAGAATGTTGGCTCTGCCGGGTGACGGTGGTGTGATGTCGG
 GATGACCTGCTGGGTTCTCGCTCAGAGAGTGCCCATCAGTCTTGACTACAAAGTGCAGGCTGGGAACA
 ACTCTTTGTATAACACACCTCCGTGCTCAGCATCTACGTCATGGGCATGGTCTGGAATGGATCAAGAA
 CAACGGCGGGCCGAGCCATGGAGAAGCTCAGCTCCATCAAATCCCAAATGATTTATGAGATCATTGAT
 AATTCTCAAGGATTTTATGTATGCCAGTGAGCGCCAGAATAGAAGCAGGATGAACATCCCATTTTCGCA
 TTGGCAACGCCAAAGGAGACGAAGCTTTGGAAAAGCGGTTTCTTGACAAGGCGGTAGAACTCAACATGAT
 CTCCTTGAAGGGGCACAGGTCAGTGGGAGGCATTCGTGCCTCTCTGTATAACGCTGTCAACCCGAAGAC
 GTTGAGAAGCTGGCGCCTTCATGAAGAATTTCTTGGAGATGCATCAGCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001205339



Insert Size:	1104 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001205339.1</u> , <u>NP_001192268.1</u>
RefSeq Size:	2295 bp
RefSeq ORF:	1104 bp
Locus ID:	107272
Cytogenetics:	19 10.86 cM
Gene Summary:	<p>Catalyzes the reversible conversion of 3-phosphohydroxypyruvate to phosphoserine and of 3-hydroxy-2-oxo-4-phosphonooxybutanoate to phosphohydroxythreonine.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (2) has a distinct N-terminus and is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>