

## Product datasheet for **MC200441**

### Psat1 (NM\_177420) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Psat1 (NM_177420) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Psat1
Synonyms:	D8Ertd814e; EPIP; PSA; Psat
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC004827 sequence for NM\_177420  
 CCGACTCAGCAGGCTGAAGCCCGCTCTGCCTTTCATCCGGAGACGCGGGCTGTTTCGCGTGGTCTCTGCT  
 CCTGCCACTTCCCCTGCTGTGCGCTTAGCACCATGGAAGCCACCAAGCAAGTGGTTAACTTTGGGCCCGG  
 GCCTGCCAAGCTGCCACACTCGGTATTGTTGGAGATCCAGAAGCAGCTACTAGACTACAGAGGACTCGGC  
 ATCAGTGTGCTCGAAATGAGTCACAGGTCATCAGATTTTGCCAAGATTATTGGCAATACAGAGAATCTTG  
 TGAGGGAAATTGCTAGCTGTTCCCAACAACACTACAAGGTGATCTTTGTACAAGGAGGTGGTCTGGCCAGTT  
 CAGTGTGCTCCCCTTAAATCTGATTGGCCTGAAAGCTGGAAGGAGTGTGACTACGTGGTGACCCGGAGCT  
 TGGTCAGCTAAGGCTGCGGAAGAAGCCAAGAAGTTTGGAACGGTGAACATTGTCCACCCTAAACTTGGAA  
 GTTACACAAAAATTCCAGACCCAAGCACCTGGAACCTCAACCCGGACGCCTCCTATGTATACTTCTGTGC  
 AAACGAGACTGTGCACGGGGTGGAGTTTGACTTCGTACCTGACGTCAAGGGAGCGGTGCTGGTCTGTGAC  
 ATGTCCTCAAACCTTTTATCCAGGCCGGTGGATGTTTCCAAGTTTGGTGTGATTTTCGCTGGTGCTCAGA  
 AGAATGTTGGCTCTGCCGGGTGACGGTGGTATTGTCCGGGATGACCTGCTGGGTTCTCGCTCAGAGA  
 GTGCCCATCAGTCTTGACTACAAAGTGCAGGCTGGGAACAACCTTTGTATAACACACCTCCGTGCTTC  
 AGCATCTACGTATGGGCATGGTCTGGAATGGATCAAGAACAACGGCGGGCCGACCCATGGAGAAGC  
 TCAGTCCATCAAATCCCAAATGATTTATGAGATCATTGATAATTCTCAAGGATTTTATGTATGCCCAGT  
 GGAGCGCCAGAATAGAAGCAGGATGAACATCCCATTTTCGATTGGCAACGCCAAAGGAGACGAAGCTTTG  
 GAAAAGCGGTTTCTTGACAAGGCTGTAGAACTCAACATGATCTCCTTGAAGGGGCACAGGTCAGTGGGAG  
 GCATTCGTGCCTCTGTATAACGCTGTCAACCCGAAGACGTTGAGAAGCTGGCGGCCTTCATGAAGAA  
 TTTCTTGAGATGCATCAGCTGTGAACATGACCAGCCACGCTCTGCCTGTGAGCAGCAGCGAGCGTCATT  
 TAGAGTAACTTGGGATTGACTACAGAACTTAACAGACATGGATTTTTTTTTCCCAAATACATGCTTATT  
 ACAGATTCCTTTCTCAAAGAATAACGACTAAACATCAGGGCACTGCAGAGCTGAGGAACTCCCAGCTAA  
 CAGCCACCTTCATTCTCATGTGACCTGGAAGCATTGAAAGCTTTCTTCTGTTGCTCTTCTAAATGA  
 ATTCAGCCTGTGAGCCATCTTTGCTGCCCTTCTCTAGGTGGACTGCCTTGGGCTTTGCCCTGCTGGTT  
 CCAACTGGTTATTATTAGGAGGTTGGAGCCCTGTGGGCTGGATTGACAGCAGTGAAGTTTCTGGGTTCT  
 GCAGCAGTTGGTTCAAGTCAACAGCGACTCACGAGCGTTTTGGATCTGTGTACTGCAATCCCATAAAGA  
 GATAGGTGTGTTATGCTGTGTTTATGTAGTGGGATTGTTTTAAACACCGTACGGTTTATGCCTATGCCT  
 TTATATTTCTAATGAAACAGTTTTGTTCCAGCCATGACTTTGTGCATGACTGTGCTCCGTTCTAGTCACC  
 TGTGCTCTCCATCTACTGCCTTTAAAGCTGCGTCATGAGAAGGATCTACAGTTCCACCATGACTCTCG  
 TTTCTTGCCACAAGTAGAAGAAATGGTTGATTCTTTGCTTTTTGGTTAGGCCGTTAAACAAAACCTCAGTC  
 ACACCCCTGCCTCCACCCTCAAACGTGATCACGTGGCTGTTCTTGTAGTTAAACCAGGGCAACACTAT  
 ATATCCAGGTCTATACATTGCTGAGGTCTTTTCTGGTTGTTTTCATGTATCAGTGTTTTCAATCGACTGC  
 ATGGAAAACATTAAGTCTAAGTCATCTAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_177420

**Insert Size:** 1113 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:**

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:** [BC004827](#), [AAH04827](#)

**RefSeq Size:** 2144 bp

**RefSeq ORF:** 1113 bp

**Locus ID:** 107272

**UniProt ID:** [Q99K85](#)

**Cytogenetics:** 19 10.86 cM

**Gene Summary:** Catalyzes the reversible conversion of 3-phosphohydroxypyruvate to phosphoserine and of 3-hydroxy-2-oxo-4-phosphonooxybutanoate to phosphohydroxythreonine.[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (1) represents the shorter transcript and encodes the longer isoform (1).