

Product datasheet for MR205716

Psat1 (NM_177420) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Psat1 (NM_177420) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Psat1
Synonyms:	D8Erttd814e; EPIP; PSA; Psat
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205716 representing NM_177420 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGCCACCAAGCAAGTGGTTAACTTTGGGCCGGGCTGCCAAGCTGCCACACTCGGTATTGTTGG
AGATCCAGAAGCAGCTACTAGACTACAGAGGACTCGGCATCAGTGTGCTCGAAATGAGTCACAGGTCATC
AGATTTTGCCAAGATTATTGGCAATACAGAGAATCTTGTGAGGGAATTGCTAGCTGTTCCCAACACTAC
AAGGTGATCTTTGTACAAGGAGTGGTCTGGCCAGTTCAGTGTGTCCCCTTAAATCTGATTGGCCTGA
AAGCTGGAAGGAGTGCTGACTACGTGGTGACCGGAGCTTGGTCAGCTAAGGCTGCCGAAGAAGCCAAGAA
GTTTGGAACGGTGAACATTGTCCACCCTAACTTGGAAAGTTACACAAAAATTCCAGACCCAAGCACCTGG
AACCTCAACCCGGACGCCTCCTATGTATACTTCTGTGCAACGAGACTGTGCACGGGGTGGAGTTTGACT
TCGTACCTGACGTCAAGGGAGCGGTGCTGGTCTGTGACATGTCCTCAAACCTTCTTATCCAGGCCGGTGG
TGTTTCCAAGTTTGGTGTGATTTTCGCTGGTGTCTCAGAGAGTGGCCATCAGTCTTGACTACAAAGTGCAGG
CTGGGAACAACCTTTGTATAACACACCTCCGTGCTTACGATCTACGTCATGGGCATGGTCTGGAAATG
GATCAAGAACAACGGCGGGCCGAGCCATGGAGAAGCTCAGTCCATCAAATCCCAAATGATTTATGAG
ATCATTGATAATTCTCAAGGATTTATGTATGCCAGTGGAGCGCCAGAATAGAAGCAGGATGAACATCC
CATTTTCGATTTGGCAACGCCAAAGGAGACGAAGCTTTGGAAAAGCGGTTTCTTGACAAGGCGGTAGA
CAACATGATCTCCTTGAAGGGGCACAGGTCAGTGGGAGGCATTCGTGCCTCTCTGTATAACGCTGTCA
ACCGAAGACGTTGAGAAGCTGGCGCCTTCATGAAGAATTTCTTGGAGATGCATCAGCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205716 representing NM_177420
Red=Cloning site Green=Tags(s)

MEATKQVVFNGPGPAKLPHSVLLEIQKQLLDYRGLGISVLEMSHRSSDFAKIIGNTENLVRELLAVPNNY
 KVIFVQGGSGQFSAVPLNLIGLKAGRSADYVVTGAWSAKAAEEAKFGTVNIVHPKLGSYTKIPDPSTW
 NLNPDASYVYFCANETVHGVEFDFVPDVKGAVLVCDMSSNFLSRPVDVSKFGVIFAGAQNKVGSAAGVTVV
 IVRDDLGLFSLRECPVLDYKQVQAGNNSLYNTPPCFSIYVMGMVLEWIKNNGGAAAMEKLSSIKSQMIYE
 IIDNSQGFYVCPVERQNRSRMNIPFRIGNAKGDEALEKRFLDKAVELNMI SLKGHRVGGIRASLYNAV
 TEDVEKLA AFMKNFLEMHQL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9042_f08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_177420

ORF Size: 1110 bp

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:

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_177420.2](#), [NP_803155.1](#)

RefSeq Size: 2172 bp

RefSeq ORF: 1113 bp

Locus ID: 107272

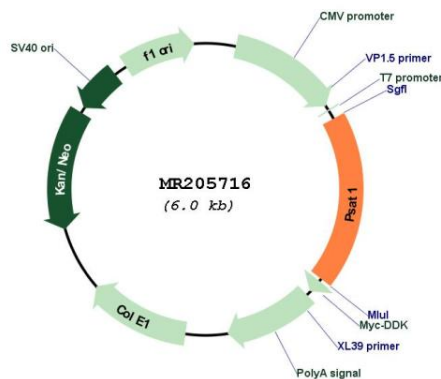
UniProt ID: [Q99K85](#)

Cytogenetics: 19 10.86 cM

MW: 40.9 kDa

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]

Product images:



Circular map for MR205716