

Product datasheet for **MG205716**

Psat1 (NM_177420) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Psat1 (NM_177420) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Psat1
Synonyms:	D8Erttd814e; EPIP; PSA; Psat
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205716 representing NM_177420 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGCCACCAAGCAAGTGGTTAACTTTGGGCCGGGCTGCCAAGCTGCCACACTCGGTATTGTTGG
AGATCCAGAAGCAGCTACTAGACTACAGAGGACTCGGCATCAGTGTGCTCGAAATGAGTCACAGGTCATC
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TGTTTCCAAGTTTGGTGTGATTTTCGCTGGTGTGCTCAGAAGAAATGTTGGCTCTGCCGGGTGACGGTGGT
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ATCATTGATAATTCTCAAGGATTTTATGTATGCCAGTGGAGCGCCAGAATAGAAGCAGGATGAACATCC
CATTTTCGATTGGCAACGCCAAAGGAGACGAAGCTTTGGAAAAGCGGTTTCTTGACAAGGCGGTAGAAT
CAACATGATCTCCTTGAAGGGGCACAGGTGAGTGGGAGGCATTCTGTGCCTCTGTATAACGCTGTACAC
ACCGAAGACGTTGAGAAGCTGGCGGCTTCATGAAGAATTTCTTGGAGATGCATCAGCTG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205716 representing NM_177420
 Red=Cloning site Green=Tags(s)

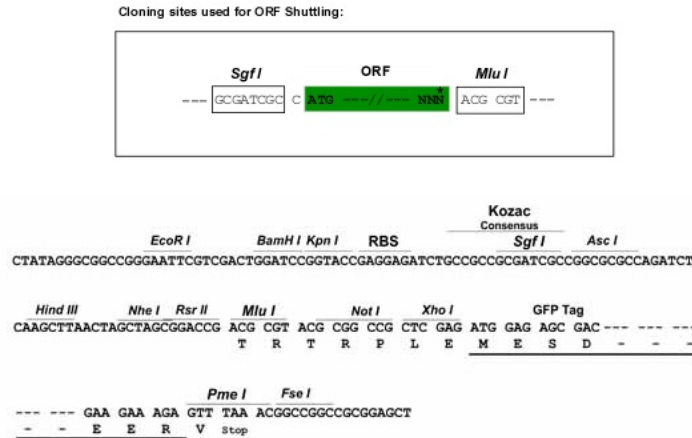
MEATKQVVNFGPGPAKLPHSVLLEIQKQLLDYRGLGISVLEMSHRSSDFAKIIGNTENLVRELLAVPNNY
 KVIFVQGGSGQFSAVPLNLIGLKAGRSADYVVTGAWSAKAAEEAKKFGTVNIVHPKLGSYTKIPDPSTW
 NLNPDASYVYFCANETVHGVEFDVFPDVKGAVLVCDMSSNFLSRPVDVSKFGVIFAGAQNKVGSAAGVTVV
 IVRDDLGLGFLRECPVLDYKVKQAGNNSLYNTPPCFSIYVMGMVLEWIKNNGAAAMEKLSIKSQMIYE
 IIDNSQGFYVCPVERQNRSRMNI PFRIGNAKGDEALEKRFLDKAVELNMI SLKGHRVSGGIRASLYNAV
 TEDVEKLA AFMKNFLEMHQL

TRTRPLE - GFP Tag - V

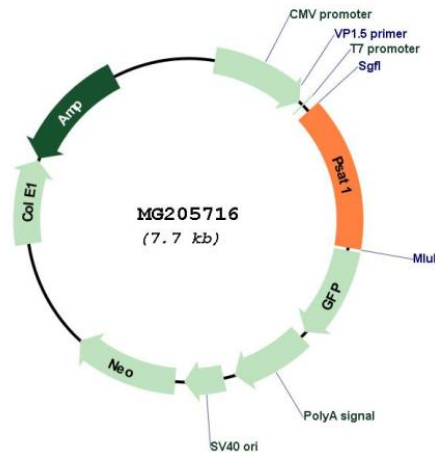
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



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:	<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_177420.2 , NP_803155.1
RefSeq Size:	2172 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-phosphonoxybutanoate to phosphohydroxythreonine.[UniProtKB/Swiss-Prot Function]