

Product datasheet for **RR213746**

Psat1 (NM_198738) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Psat1 (NM_198738) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Psat1
Synonyms:	Psa1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR213746 representing NM_198738 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAAGCCACCAAGCAAGTGGTAACTTTGGGCCGGCCCTGCTAAGCTGCCGACTCGGTATTGTTAG
AGATACAGAAGCAGCTACTGGACTACAAAGGACTTGGCATCAGTGTGCTTGAATGAGTCACAGGTCACC
AGATTTCCGAAGATTATTAGCAACACAGAGAATCTTGTGAGGGAATTGCTAGTTGTTCCCAACAACTAC
AAGGTGATCTTTGTACAAGGAGTGGGACTGGCCAGTTCAGTGCCGTCCCCTTAAATCTGATTGGCCTGA
AAGCTGGAAGGTGTGCCGACTACGTGGTGACCGGGCTTGGTCAGCTAAGGCTGCCGAAGAAGCCAAAGAA
GTTTGGGACTGTGAACATTGTTTCATCCTAACTTGAAGTTACACAAAAATTCCAGACCCAAAGCACCTGG
AACCTCAACCCGGACGCCTCCTACGTGACTTCTGTGCAAACGAGACTGTGCATGGCGTGGAGTTTGACT
TCATACCTGACGTCAAGGGAGCAGTGTGGTCTGTGACATGTCTCAAACCTCTTATCCAGGCCAGTGGA
CGTTTCCAAGTTTGGTGTGATTTTCGCTGGTGTCTCAGAAGAATGTTGGCTCTGCTGGGGTGACGGTAGTG
ATTGTCGTGATGACCTGCTGGGGTTCGCCCTCAGAGAGTGCCCATCAGTCCCTTGACTACAAAGTGCAGG
CTGGGAACAACCTTTGTATAACACACCTCCATGCTTCCAGCATCTACGTCATGGACATGGTCTCGGAATG
GATCAAGAACAATGGTGGGGCCGACCCATGGAGAAGCTCAGCTCCGTCAAATCCCAAATGATTTATGAG
ATTATTGATAATTCTCAAGGATTTTATGTGTGTCCGGTGGAGCGCCAGAATAGAAGCAGGATGAACATTC
CGTTTCGATTGGTAACAGCAAAGGGGATGAAGCTCTGGAGAAGCGATTTCTTGACAAGGCCGTAGAAT
CAACATGATCTCCTTGAAGGGGCACAGGTGGTGGCGGCATCCGAGCGTCTCTGTATAATGCTGTCACC
ACTGAAGATGTGGAGAAGTTGGTGCCTTCATGAAGAATTTCTGGAGATGCATCAGCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RR213746 representing NM_198738
 Red=Cloning site Green=Tags(s)

MEATKQVVFNGPGPAKL PYSVLLEIQKQLLDYKGLGISVLEMSHRSPDFAKIISNTENLVRELLVVPNNY
 KVIFVQGGGTGFSAVPLNLIGLKAGRCADYVVTGAWSAKAAEEAKKFGTVNIHVHPLKLSYTKIPDPSTW
 NLNPDASYVYFCANETVHGVEFDFIPDVKGAVLVCDMSSNFLSRPVDVSKFGVIFAGAQNKVGSAAGVTVV
 IVRDDLGFALRECPVLDYKVKQAGNNSLYNTPPCFSIYVMDMVLEWIKNNGGAAAMEKLSVKSQMIYE
 IIDNSQGFYVCPVERQNRSRMNIPFRIGNSKGDDEALEKRFLDKAVELNMI SLKGHRSVGGIRASLYNAV
 TEDVEKLA AFMKNFLEMHQL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

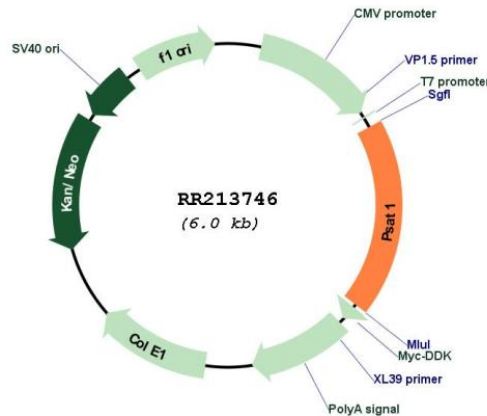
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_198738

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_198738.2 , NP_942033.2
RefSeq Size:	2079 bp
RefSeq ORF:	1113 bp
Locus ID:	293820
Cytogenetics:	1q43
MW:	40.6 kDa
Gene Summary:	human homolog catalyzes the conversion of O-phospho-L-serine and 2-oxoglutarate to 3-phosphonoxyypyruvate and L-glutamate in the second step of serine biosynthesis [RGD, Feb 2006]