

## Product datasheet for **RR202286**

### **Ptdss1 (NM\_001012113) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ptdss1 (NM_001012113) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ptdss1
Synonyms:	PSS-1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**ORF Nucleotide Sequence:**

>RR202286 representing NM\_001012113  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGCGTCTCGGTAGGGAGCAGGACTCTGAGCAAGGATGATGTGAACACAGGATGCATTTCCGCATGA  
 TCAACGAGCAGCAAGTGGAGGACATCACCATAGACTTCTTCTACCGGCCGCACACCATCACCTGCTCAG  
 CTTTACCATCATCAGCCTCATGTACTTCGCCTTACCAGGGATGACTGTGTTCTGAAGACAACATCTGG  
 AGAGGCATCCTTCCGTTATCTTCTTCTCCTCATCATCAGCGTGTAGCATTCCCAATGGCCCTTTTA  
 CTCGGCCCCATCCAGCCTTATGGCGAATGGTTTTGGCCTCAGTGTGCTGTACTTCTTCTTGGTATT  
 CCTCTGTTCTGAACTTCGAGCAGGTTAAATCCCTGATGATTGGCTCGACCCCAATCTCCGATACGCC  
 ACCAGAGAAGCAGACATCATGGAGTATGCCGTGAAGTGCATGTGATCACCTGGGAGAGAATCGTTAGTC  
 ACTTTGATATATTGCTTTGGCATTCTGGGCTGGGCCATGAAGGCCTTGTTGATCCGTAGTTATGG  
 GCTCTGCTGGACAATCAGTATCACCTGGGAGCTGACAGAGCTTTCTTTCATGCATCTTCCCAACTTT  
 GCTGAGTCTGGTGGACAGGTCATTCTGGACATCCTGTTGTGTAAATGGTGGTGAATCTGGCTGGGCA  
 TGGTCGTTTCCCGTTTTTGGAGATGAGGACTTACCCTGGGCAAGCTTCAAGGACATCCACACCACCAC  
 AGGGAAGATCAAGCGTGTGCTACAGTTCACCCCTGTAGCTGGACCTACGTCAGGTGGTTTGACCCC  
 AAGTCTTCTTTCAGAGAGTGGCTGGTATATACCTTTTTCATGATCATCTGGCAGCTGACTGAGTTGAATA  
 CCTTCTTCTTGAAGCACATCTTTGTGTTCCAAGCCAGCCATCCCTTAAGCTGGTGCAGAATTCTCTTCAT  
 CGGCTGCATTACGGCTCCACAGTGAGACAGTACTACGCCACCTCACGGACACACAGTGAAGCGTGTG  
 GGGACACAGTCTGGGTATTTGGGTCATTGGTTCTGGAAGCCATTGTTGCATCAAATTTGGACAAG  
 ATCTCTTCTTAAGACCAGATACTCTACGTGGTGTCTTTGGCTTCTTGTGTGGCCTTCACTACGTTCTC  
 GTGTCTGTACGGCATGGTTTGGTATGCAGAGCACTATGGACACCGGAAAAGACCTATTCAGAGTGCGAA  
 GATGGCACTTACAGTCCAGAGATCTCTGGTATCACGGAAAAGGCTCAAAGGTTCTGAGGACAGCCAC  
 CGAAGCATTCAAACAACAACGAAAGCCATTCTTCCAGAAGAAGGAACCGCATTCCAAGTCAAAGTAC  
 CAATGGAGTTGGGAAGAAAACATGGAGTTGGGAAGAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR202286 representing NM\_001012113  
 Red=Cloning site Green=Tags(s)

MASCVGSRTLSKDDVNYRMHFRMINEQQVEDITIDFFYRPHITILLSFTIISLMYFAFTRDDCVPEDNIW  
 RGILSVIFFFLIISVLAFPNGPFTRPHALWRMVFGLSVLYFLVFLFLNFEQVKSLMYWLDPNLRYA  
 TREADIMEYAVNCHVITWERIVSHFDIFAFGHFWGWAMKALLIRSYGLCWITISITWELTELFMHLPPNF  
 AECWWDQVILDILLCNGGGIWLGMVVCRFLEMRTYHWASFKDIHTTTGKIKRAVLQFTPASWTYVRFDP  
 KSSFQRVAGIYLFMIWQLTELNTFFLKHIFVFQASHPLSWCRILFIGCITAPTVRQYYAYLTDQCKRV  
 GTQCWVFGVIGFLEAIVCIKFGQDLFSKTQILYVVLWLLCVAFITFLCLYGMVWYAEHYGHREKTYSECE  
 DGTYSPEISWYHGKSGKSEDSPPKHSNNNESHSRRRRNRHRSKSKVTNGVGGKQWSWEE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

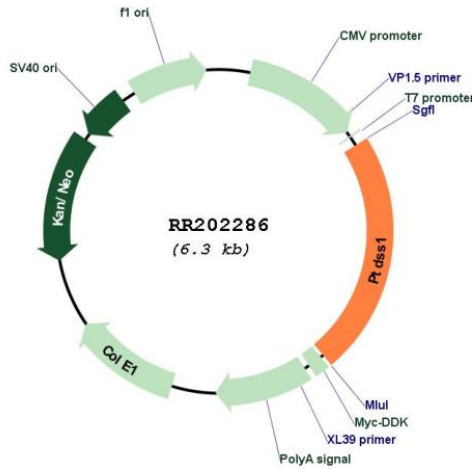
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM\_001012113

ORF Size:

1419 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 Size:** 2547 bp

**RefSeq ORF:** 1422 bp

**Locus ID:** 314553

**UniProt ID:** [Q5PQL5](#)

**Cytogenetics:** 7q22

**MW:** 55.7 kDa

**Gene Summary:** Catalyzes a base-exchange reaction in which the polar head group of phosphatidylethanolamine (PE) or phosphatidylcholine (PC) is replaced by L-serine. In membranes, PTDSS1 catalyzes mainly the conversion of phosphatidylcholine. Also converts, in vitro and to a lesser extent, phosphatidylethanolamine (By similarity).[UniProtKB/Swiss-Prot Function]