

## Product datasheet for **MG207558**

### **Ptdss2 (NM\_013782) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ptdss2 (NM_013782) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ptdss2
Synonyms:	AI481134; AI988017; PSS2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG207558 representing NM\_013782  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCGGAGGGGCGAGCGCAGAGTCGCCGAGGCTCGGGATCTGAGTCTCCGCTGCTCAAGGGCCGCCGCA  
 GCACCGAGTCTGAAGTCTACGACGATGGCACTAACACCTCTTTTGGCGTGCCACACTTTAACTGTGCT  
 GTTCATCCTCACCTGTGCGCTGGGCTACGTGACTCTCCTAGAAGAAACCCTCAGGATACAGCCTACAAC  
 ACCAAGAGAGGTATTGTGGCCAGTATTTTGGTTTTCTTATGTTTTGGAGTCACACAAGCTAAAGACGGGC  
 CTTTTCCAGACCTCATCCAGCTTACTGGCGTTTTGGCTGTGTGTTAGTGTGGTCTACGAATTGTTTCT  
 CATCTTCATCCTTTCCAGACAGTCCAGGATGGCCGACAGTTTCTGAAGTATGTGGATCCAGGCTGGGA  
 GTCCCATTTGCCAGAGAGGACTACGGGGCAACTGCCTCATCTATGATGCTGACAACAAGACTGACCCTT  
 TCCACAACATCTGGGACAAGCTGGATGGCTTTGTTCTGCACACTTCATTGGCTGGTATCTGAAGACGCT  
 CATGATCCGTGACTGGTGGATGTGCATGATCATCAGTGTGATGTTTCGAGTTCCTGGAGTACAGCCTGGAG  
 CACCAGCTGCCAACTTACGCGAGTGTGGTGGGACCATTGGATCATGGACGTCCTCGTCTGCAACGGGC  
 TGGGCATCTACTGTGGCATGAAGACCCTCGAGTGGCTGTCCCTGAAGACATATAAGTGGCAGGGCCTCTG  
 GAACATTTCAACCTACAAGGGCAAGATGAAGAGGATTGCCTTTCAGTTACGCGCTTACAGCTGGGTACGC  
 TTTGAGTGAAGCCAGCCTCCAGCCTGCACCGCTGGCTGGCCGTGTGTGGCATCATCCTGGTGTCTCTGC  
 TGGCAGAGCTGAACACCTTCTACCTGAAGTTTGTGCTATGGATGCCCCCTGAACACTACCTGGTCTTCT  
 GAGGCTGGTCTTCTCGTGAACGTGGTGGTGTGGCCATGCGTGAGATCTACGACTTCATGGATGAATTG  
 AAGCCCCACAGGAAGCTGGGCCAGCAGGCTGGCTGGTGGCAGCCATCACAGTCACAGAGCTTCTCATCG  
 TGGTGAAGTATGACCCGCACACACTCACCTGTCACTGCCCTTCTACATCTCCAGTCTGGACTTTGG  
 CTCCATCCTGGTGCTTACATGGACTGTCTGGCGCTTCTTCTCGCGGACATCACCATGAGGTACAAGGAG  
 ACCCGGCGACAGAAGCAGCAGAGTCACCAGGCCAGAGCCGTCAACAACCGGGATGGGCACCTGGGCCAG  
 ATGATGACCTGCTAGGGACTGGAAGTGCAGAAGAAGAGGGGACCACCAATGACGGTGTGACTGCTGAGGA  
 GGGGACCTCAGCCCGTCA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG207558 representing NM\_013782  
 Red=Cloning site Green=Tags(s)

MRRGERRVAGSGSESPLLKRRSTSEVYDDGNTFFWRAHTLTVLFILTCALGYVTLLEETPQDTAYN  
 TKRGIVASILVFLCFGVTQAKDGPFSRPHPAYWRFWLCVSVVYELFLIFILFQTVQDGRQFLKYVDPRLG  
 VPLPERDYGGNCLIIDADNKTDPFHNIWDKLDGFVPAHFIGWYKTLMIRDWMMCMIIISVMFEFLEYSLE  
 HQLPNFSECWWDHWIMDVLVCNGLGIYCGMKTLEWL SLKTYKWQGLWNIPTYKGMKRIAFQFTPSWVR  
 FEWKPASSLHRWLAVCGIILVFLLAELNTFYLFVLMPPPEHYLVLLRLVFFVNVGGVAMREIYDFMDEL  
 KPHRKLGGQAWLVAAITVTELLIVVKYDPHTLTLSPFYISQCWTLGSILVLTWTVWRFFLRDITMRYKE  
 TRRQKQSSHQARAVNNRDGHPGPDLLGTGTAEEEGTTNDGVTAEEGTSAAS

**TRTRPLE** - GFP Tag - V

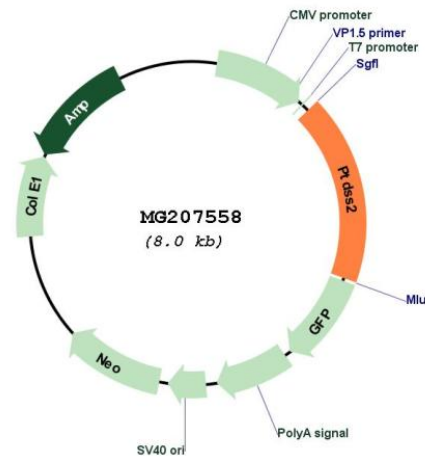
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_013782

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:** [NM\\_013782.4](#), [NP\\_038810.2](#)

**RefSeq Size:** 2172 bp

**RefSeq ORF:** 1422 bp

**Locus ID:** 27388

**UniProt ID:** [Q9Z1X2](#)

**Cytogenetics:** 7 F5

**Gene Summary:** Catalyzes a base-exchange reaction in which the polar head group of phosphatidylethanolamine (PE) or phosphatidylcholine (PC) is replaced by L-serine. PTDSS2 is specific for phosphatidylethanolamine and does not act on phosphatidylcholine. [UniProtKB/Swiss-Prot Function]