

## Product datasheet for **RG237460**

### PTDSS1 (NM\_001290225) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PTDSS1 (NM_001290225) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PTDSS1
Synonyms:	LMHD; PSS1; PSSA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237460 representing NM_001290225. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGTATGCTGTGAAGTCCCATGTGATCACCTGGGAGAGGATTATCAGCCACTTTGATATTTTGTCA
TTTGGACATTTCTGGGGCTGGGCATGAAGGCCTTGCTGATCCGTAGTTACGGTCTCTGCTGGACAATC
AGTATTACCTGGGAGCTGACTGAGCTCTTCTTCATGCATCTCTCCCAATTTTGCCGAGTGTGGTGG
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TCTAAGACCCAAATACTATGTTGTGCTTTGGCTTCTTTCGCTGGCTTTACCCTTCTCTGCTGTG
TACGGCATGATTTGGTATGCAGAACACTATGGTCACCGAGAAAAGACCTACTCGGAGTGTGAAGATGGC
ACCTACAGTCCAGAGATCTCTGGCATCACAGGAAAGGGACAAAAGGTTCTGAAGACAGCCACCCCAAG
CATGCAGGCAACAACGAAAGCCATTCTCCAGGAGAAGGAATCGGCATTCCAAGTCAAAGTCAACCAAT
GGCGTTGGAAAGAAA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237460  
 Blue=ORF Red=Cloning site Green=Tag(s)

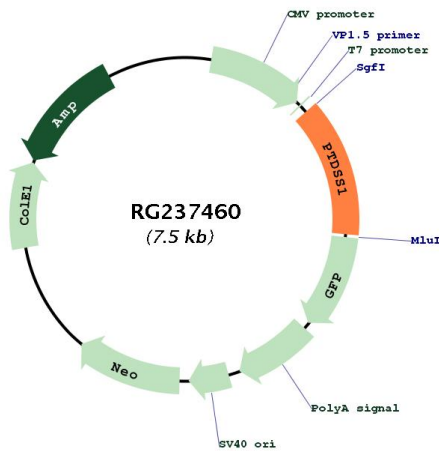
MEYAVNCHVITWERIISHFDIFAFGHFWGWAMKALLIRSYGLCWTISITWELTEFFMHLLPNFAECWW  
 DQVILDILLCNGGGIWLGMVVCRFLEMRTYHWASFKDIHTTTGKIKRAVLQFTPASWTYVRWFDPKSSF  
 QRVAGVYLFMIWQLTELNTFFLKHIFVFAQSHPLSWGRILFIGGITAPTVRQYYAYLTDTCCKRVGTQ  
 CWYFGVIGFLEAIVCIKFGQDLFSKTQILYVVLWLLCVAFTTFLCLYGMIWYAEHYGHREKTYSECEDG  
 TYSPEISWHHRKGTKGESESPPKHAGNNESSRRRRNRHSKSKVTNGVGKK  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001290225

<b>ORF Size:</b>	981 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>RefSeq:</b>	<a href="#">NM_001290225.2</a>
<b>RefSeq Size:</b>	2406 bp
<b>RefSeq ORF:</b>	984 bp
<b>Locus ID:</b>	9791
<b>UniProt ID:</b>	<a href="#">P48651</a>
<b>Cytogenetics:</b>	8q22.1
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Glycerophospholipid metabolism, Metabolic pathways
<b>MW:</b>	38.7 kDa
<b>Gene Summary:</b>	The protein encoded by this gene catalyzes the formation of phosphatidylserine from either phosphatidylcholine or phosphatidylethanolamine. Phosphatidylserine localizes to the mitochondria-associated membrane of the endoplasmic reticulum, where it serves a structural role as well as a signaling role. Defects in this gene are a cause of Lenz-Majewski hyperostotic dwarfism. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2014]