

Product datasheet for **RC201012**

PTDSS1 (NM_014754) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTDSS1 (NM_014754) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PTDSS1
Synonyms:	LMHD; PSS1; PSSA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC201012 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGTCTCGGTGGGAGCCGGACCCTAAGCAAGGATGATGTGAACAACAAATGCATTTCCGGATGA
TCAACGAGCAGCAAGTGGAGGACATCACCATTTGACTTCTTCTACCGCCGCATACCATCACCTGCTCAG
TTCCACCATCGTCAGCCTCATGTACTTCGCCTTTACCAGGGATGACTCTGTTCCAGAAGCAACATCTGG
AGAGGCATCCTCTCTGTTATTTTCTTCTTTCATCATCAGTGTGTAGCTTTCCCAATGGTCCGTTC
CTCGACCTCATCCAGCCTTATGGCGAATGGTTTTGGACTCAGTGTGCTTACTTCTGTTCTGTTATT
CCTACTTCTGAAATTCGAGCAGGTTAAATCTCTAATGTATTGGCTAGATCCAAATCTTCGATACGCC
ACAAGGGAAGCAGATGTCATGGAGTATGCTGTGAAGTCCATGTGATCACCTGGGAGAGGATTATCAGCC
ACTTTGATATTTTGCATTTGGACATTTCTGGGCTGGCCATGAAGGCCTTGCTGATCCGTAGTTACGG
TCTCTGCTGGACAATCAGTATTACCTGGGAGCTGACTGAGCTCTTCTTCATGCATCTCTCCCAATTTT
GCCGAGTCTGGTGGGATCAAGTATTCTGGACATCTGTTGTGCAATGGCGGTGGCATTGGCTGGGCA
TGGTCTTTGCCGTTTTAGAGATGAGGACTTACCCTGGGCAAGCTTCAAGGACATTCATACCACCAC
CGGAAGATCAAGAGAGCTGTTCTGCAGTTCACCTCTGCTAGCTGGACCTATGTTTCGATGGTTTACCCC
AAATCTTCTTTTTCAGAGAGTAGCTGGAGTGTACCTTTTCATGATCATCTGGCAGCTGACTGAGTTGAATA
CCTTCTTCTTGAAGCATATCTTTGTGTTCCAAGCCAGTCCATTAAGTTGGGGTAGAATTTCTCTTTAT
TGGTGGCATCACAGCTCCACAGTGAGACAGTACTACGCTTACCTCACCGACACACAGTGAAGCGCGTA
GGAACACAATGCTGGGTGTTGGGGTATTGGTTTCTGGAGGCCATTGTTTGCATAAAATTTGGACAAG
ATCTCTTCTAAGACCCAAACTCTATGTTGTGCTTTGGCTTTTGGCTTTTGGCTTTTGGCTTTTGGCTTTT
CTGTCTGTACGGCATGATTTGGTATGCAGAACACTATGGTCACCGAGAAAAGACCTACTCGGAGTGTGAA
GATGGCACCTACAGTCCAGAGATCTCTGGCATCACAGGAAAGGACAAAAGTTCTGAAGACAGCCAC
CCAAGCATGCAGGCAACAACGAAAGCCATTCTCCAGGAGAAGGAATCGGCATTCGAAGTCAAAGTAC
CAATGGCGTTGGAAGAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC201012 protein sequence
Red=Cloning site Green=Tags(s)

MASCVGSRTLKDDVNYKMHFRMINEQQVEDITIDFFYRPHITILLSTIVSLMYFAFTRDSDVPEDNIW
RGILSVIFFFLIISVLAFPNGPFRPHPALWRMVFGLSVLYFLFLVLLFLNFEQVKSLMYWLDPNLRYA
TREADVMEYAVNCHVITWERIISHFDIFAFGHFWGWAMKALLIRSYGLCWTISITWELTELFMHLPLNF
AECWWDQVILDILLCNGGGIWLGMVVCRFLEMRTYHWASFKDIHTTTGKIKRAVLQFTPASWTYVRWFD
KSSFQRVAGVYLFMIWQLTELNTFFLKHIFVFQASHPLSWGRILFIGGITAPTQRYYAYLTDQCKRV
GTQCWVFGVIGFLEAIVCIKFGQDLFSKTQILYVVLWLLCVAFTTFLCLYGMWYAEHYGHREKTYSECE
DGTYSPEISWHHRKGTGKSEDSPPKHAGNNESSHSSRRNRHRSKSKVTNGVGKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6278_c08.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_014754

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_014754.3](#)
RefSeq Size: 2576 bp

RefSeq ORF: 1422 bp

Locus ID: 9791

UniProt ID: [P48651](#)
Cytogenetics: 8q22.1

Domains: PSS

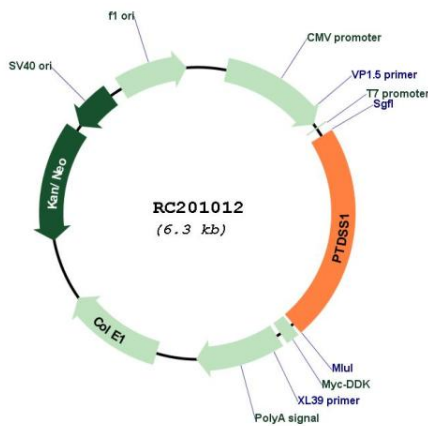
Protein Families: Transmembrane

Protein Pathways: Glycerophospholipid metabolism, Metabolic pathways

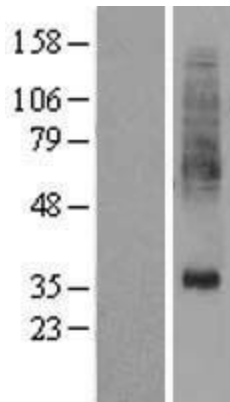
MW: 55.5 kDa

Gene Summary: 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]

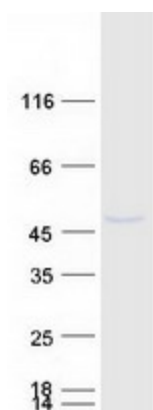
Product images:



Circular map for RC201012



Western blot validation of overexpression lysate (Cat# [LY415052]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201012 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PTDSS1 protein (Cat# [TP301012]). The protein was produced from HEK293T cells transfected with PTDSS1 cDNA clone (Cat# RC201012) using MegaTran 2.0 (Cat# [TT210002]).