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Product datasheet for RC237460

PTDSS1 (NM_001290225) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTDSS1 (NM_001290225) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PTDSS1
Synonyms:	LMHD; PSS1; PSSA
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237460 representing NM_001290225 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGAGTATGCTGTGAACTGCCATGTGATCACCTGGGAGAGGATTATCAGCCACTTTGATATTTTTGCAT TTGGACATTTCTGGGGCTGGGCCATGAAGGCCTTGCTGATCCGTAGTTACGGTCTCTGCTGGACAATCAG TATTACCTGGGAGCTGACTGAGCTCTTCTTCATGCATCTCCTCCCCAATTTTGCCGAGTGCTGGTGGGAT CAAGTCATTCTGGACATCCTGTTGTGCAATGGCGGTGGCATTTGGCTGGGCATGGTCGTTTGCCGGTTTT TAGAGATGAGGACTTACCACTGGGCAAGCTTCAAGGACATTCATACCACCACCGGGAAGATCAAGAGAGC TGTTCTGCAGTTCACTCCTGCTAGCTGGACCTATGTTCGATGGTTTGACCCCAAATCTTCTTTTCAGAGA GTAGCTGGAGTGTACCTTTTCATGATCATCTGGCAGCTGACTGAGTTGAATACCTTCTTCTTGAAGCATA TCTTTGTGTTCCAAGCCAGTCATCCATTAAGTTGGGGTAGAATTCTCTTTATTGGTGGCATCACAGCTCC CACAGTGAGACAGTACTACGCTTACCTCACCGACACACAGTGCAAGCGCGTAGGAACACAATGCTGGGTG TTTGGGGTCATTGGTTTCCTGGAGGCCATTGTTTGCATAAAATTTGGACAAGATCTCTTCTCTAAGACCC AAATACTCTATGTTGTGCTTTGGCTTCTTTGCGTGGCTTTCACCACTTTCCTCTGTCTGTACGGCATGAT TTGGTATGCAGAACACTATGGTCACCGAGAAAAGACCTACTCGGAGTGTGAAGATGGCACCTACAGTCCA GAGATCTCCTGGCATCACAGGAAAGGGACAAAAGGTTCTGAAGACAGCCCACCCAAGCATGCAGGCAACA ACGAAAGCCATTCTTCCAGGAGAAGGAATCGGCATTCCAAGTCAAAAGTCACCAATGGCGTTGGAAAGAA A ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

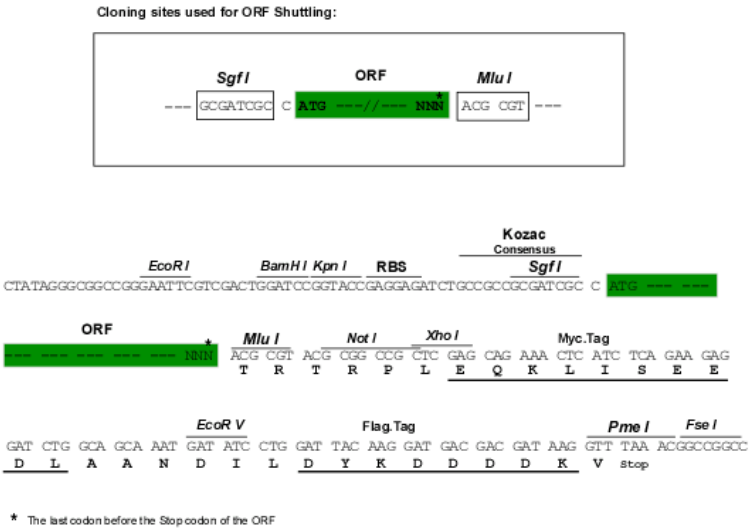
>RC237460 representing NM_001290225
Red=Cloning site Green=Tags(s)

MEYAVNCHVITWERIISHFDIFAFGHFWGWAMKALLIRSYGLCWTISITWELTELFFMHLLPNFAECWWD
QVILDILLCNGGGIWLGMVVCRFLEMRTYHWASFKDIHTTTGKIKRAVLQFTPASWTYVRWFDPKSSFQR
VAGVYLFMIIWQLTELNTFFLKHIFVFQASHPLSWGRILFIGGITAPTVRQYYAYLTDTQCKRVGTQCWV
FGVIGFLEAIVCIKFGQDLFSKTQILYVVLWLLCVAFTTFLCLYGMIWYAEHYGHREKTYSECEDGTYSP
EISWHHRKGTKGSEDSPPKHAGNNESHSSRRRNRHSKSKVTNGVGKK

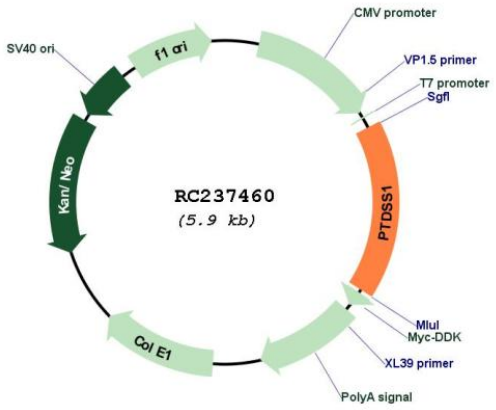
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001290225

ORF Size: 981 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_001290225.2
RefSeq Size:	2406 bp
RefSeq ORF:	984 bp
Locus ID:	9791
UniProt ID:	P48651
Cytogenetics:	8q22.1
Protein Families:	Transmembrane
Protein Pathways:	Glycerophospholipid metabolism, Metabolic pathways
MW:	38.7 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]