OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC200996

PTDSS2 (NM_030783) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTDSS2 (NM_030783) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PTDSS2
Synonyms:	PSS2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC200996 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGGAGGGGCGAGCGCAGGGACGCCGGAGGTCCGCGGCCCGAGTCCCCGGTGCCCGCGGGCAGGGCCT
CGCTGGAGGAGCCGCCTGACGGGCCGTCTGCCGGCCAAGCCACCGGGCCGGGCGAGGGCCGCCGCAGCAC
CGAGTCCGAGGTCTACGACGACGGCACCAACACCTTCTTCTGGCGAGCCCACACCTTAACCGTGCTCTTC
ATCCTCACCTGTACGCTTGGCTATGTGACGCTGCTGGAGGAAACACCTCAGGACACGGCCTACAACACCA
AGAGAGGTATTGTGGCCAGTATTTTGGTTTTCTTATGTTTTGGAGTCACACAAGCTAAAGACGGGCCATT
TTCCAGACCTCATCCAGCTTACTGGAGGTTTTGGCTCTGCGTGAGTGTGGTCTACGAGCTGTTTCTCATC
TTTATACTCTTCCAGACTGTCCAGGACGGCCGGCAGTTTCTAAAGTATGTTGACCCCAAGCTGGGAGTCC
CACTGCCAGAGAGAGACTACGGGGGAAACTGCCTCATCTACGACCCAGACAATGAGACTGACCCCTTTCA
CAACATCTGGGACAAGTTGGATGGCTTTGTTCCCGCGCACTTTCTTGGCTGGTACCTGAAGACCCTGATG
ATCCGAGACTGGTGGATGTGCATGATCATCAGCGTGATGTTCGAGTTCCTGGAGTACAGCCTGGAGCACC
AGCTGCCCAACTTCAGCGAGTGCTGGTGGGATCACTGGATCATGGACGTGCTCGTCTGCAACGGGCTGGG
CATCTACTGCGGCATGAAGACCCTTGAGTGGCTGTCCCTGAAGACGTACAAGTGGCAGGGCCTCTGGAAC
ATTCCGACCTACAAGGGCAAGATGAAGAGGATCGCCTTCCAGTTCACGCCGTACAGCTGGGTTCGCTTCG
AGTGGAAGCCGGCCTCCAGCCTGCGTCGCTGGCTGGCCGTGTGCGGCATCATCCTGGTGTTCCTGTTGGC
AGAACTGAACACGTTCTACCTGAAGTTTGTGCTGTGGATGCCCCCGGAGCACTACCTGGTCCTCCTGCGG
CTCGTCTTCTTCGTGAACGTGGGTGGCGTGGCCATGCGTGAGATCTACGACTTCATGGATGACCCGAAGC
CCCACAAGAAGCTGGGCCCGCAGGCCTGGCTGGTGGCGGCCATCACGGCCACGGAGCTGCTCATCGTGGT
GAAGTACGACCCCCACACGCTCACCCTGTCCCTGCCCTTCTACATCTCCCAGTGCTGGACCCTCGGCTCC
GTCCTGGCGCTCACCTGGACCGTCTGGCGCTTCTTCCTGCGGGACATCACATTGAGGTACAAGGAGACCC
GGTGGCAGAAGTGGCAGAACAAGGATGACCAGGGCAGCACCGTCGGCAACGGGGACCAGCACCCACTGGG
GCTGGACGAAGACCTGCTGGGGCCTGGGGTGGCCGAGGGCGAGGGAGCACCAACTCCAAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC200996 protein sequence
Red=Cloning site Green=Tags(s)

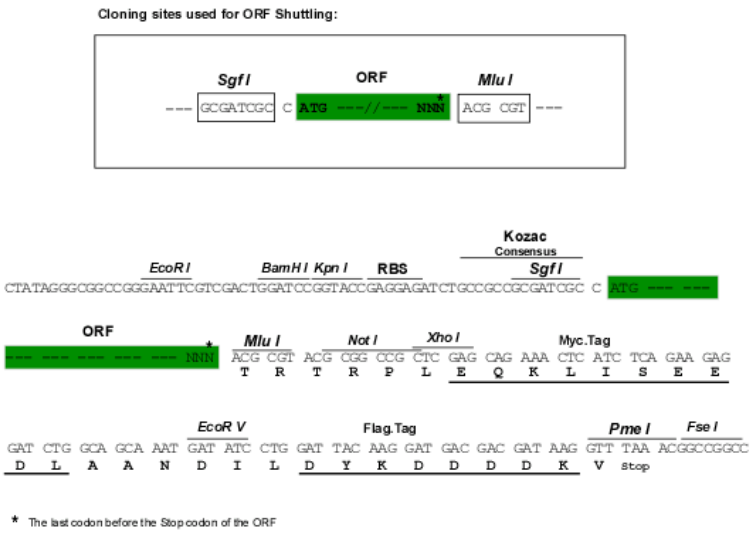
MRRGERRDAGGPRPESPVPAGRASLEEPPDGPSAGQATGPGEGRRSTESEVYDDGTNTFFWRAHTLTVLF
ILTCTLGYVTLLEETPQDTAYNTKRGIVASILVFLCFGVTQAKDGPFSRPHPAYWRFWLCVSVVYELFLI
FILFQTVQDGRQFLKYVDPKLGVPLPERDYGGNCLIYDPDNETDPFHNIWDKLDGFVPAHFLGWYLKTLM
IRDWWMCMIISVMFEFLEYSLEHQLPNFSECWWDHWIMDVLVCNGLGIYCGMKTLEWLSLKTYKWQGLWN
IPTYKGKMKRIAFQFTPYSWVRFEWKPASSLRRWLAVCGIILVFLLAELNTFYLKFVLWMPPEHYLVLLR
LVFFVNVGGVAMREIYDFMDDPKPHKKLGPQAWLVAAITATELLIVVKYDPHTLTLSLPFYISQCWTLGS
VLALTWTVWRFFLRDITLRYKETRWQKWQNKDDQGSTVGNGDQHPLGLDEDLLGPGVAEGEGAPTPN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6198_g03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_030783

ORF Size: 1461 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_030783.3

RefSeq Size: 2473 bp

RefSeq ORF: 1464 bp

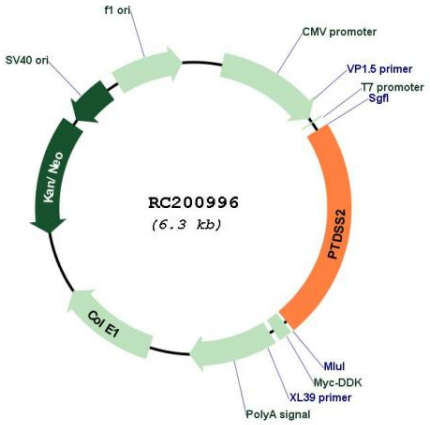
Locus ID: 81490

UniProt ID: Q9BVG9

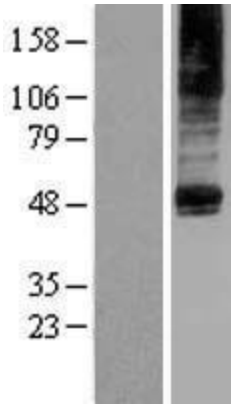
Cytogenetics: 11p15.5

Domains:	PSS
Protein Families:	Transmembrane
Protein Pathways:	Glycerophospholipid metabolism, Metabolic pathways
MW:	56.3 kDa
Gene Summary:	The protein encoded by this gene catalyzes the conversion of phosphatidylethanolamine to phosphatidylserine, a structural membrane phospholipid that functions in cell signaling, blood coagulation, and apoptosis. The encoded enzyme also has a high affinity for docosahexaenoic acid (DHA) and can use it to make DHA-containing phosphatidylserine. [provided by RefSeq, Jul 2016]

Product images:



Circular map for RC200996



Western blot validation of overexpression lysate (Cat# [LY403080]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200996 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).