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 RC207892

PDSS2 (NM_020381) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDSS2 (NM_020381) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PDSS2
Synonyms:	bA59I9.3; C6orf210; COQ1B; COQ10D3; DLP1; hDLP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC207892 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAACTTTCGGCAGCTGCTGTTGCACTTGCCACGTTATCTTGGAGCCTCGGGTTCCCCGCGTCGCCTGT
GGTGGTCCCCGTCCCTCGACACCATCTCCTCGGTGGGCTCTTGGCGTGGTCGGTCCTCCAAGTCCCCGGC
CCACTGGAATCAGGTAGTGTCAGAGGCGGAGAAGATCGTGGGGTACCCCACGTCCTTCATGAGCCTTCGC
TGCCTGCTGAGCGACGAGCTCAGCAACATCGCTATGCAGGTGCGGAAGCTGGTGGGCACTCAGCACCCTC
TGCTTACCACAGCCAGGGGGCTTGTACATGACAGCTGGAATAGCCTCCAGTTGAGGGGCTTGGTGGTGCT
CCTTATCTCTAAAGCAGCTGGGCCCAGCAGCGTGAACACTTCATGTCAGAACTATGACATGGTCAGTGGG
ATCTACTCATGTCAAAGAAGTTTGGCAGAGATCACGGAGCTAATTCATATTGCTCTCCTTGTACATCGTG
GGATAGTAAATTTAAATGAGTTGCAATCATCTGATGGTCCACTGAAAGACATGCAATTTGGAAATAAAAT
TGCTATCCTGAGTGGAGACTTTCTTCTAGCAAATGCCTGCAATGGACTAGCTCTGCTACAGAACACCAAG
GTTGTGGAACTTTTAGCAAGTGCTCTTATGGACTTGGTACAAGGAGTATATCATGAAAATTCTACTTCAA
AGGAAAGTTATATCACAGATGATATTGGAATATCGACTTGGAAGGAGCAGACTTTTCTCTCCCATGGTGC
CTTACTAGCAAAGAGCTGCCAAGCTGCAATGGAATTAGCAAAGCATGATGCTGAGGTTCAGAATATGGCA
TTTCAGTATGGGAAGCACATGGCCATGAGTCATAAGATAAATTCTGATGTCCAGCCTTTTATTAAAGAAA
AGACCAGTGACTCCATGACTTTTAATCTAAACTCAGCTCCTGTAGTCTTACATCAGGAATTTCTTGGAAG
AGATTTGTGGATTAAACAGATCAGAGAGGCTCAAGAAAAAGGAAGATTGGACTATGCTAAGTTGCGAGAA
AGAATCAAAGCTGGCAAAGGTGTGACTTCAGCTATTGACCTGTGTCGTTACCATGGAAACAAGGCACTGG
AGGCCCTGGAGAGCTTTCCTCCCTCGGAGGCCAGATCTGCTTTAGAAAACATTGTGTTTGCTGTGACCAG
ATTTTCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC207892 protein sequence
Red=Cloning site Green=Tags(s)

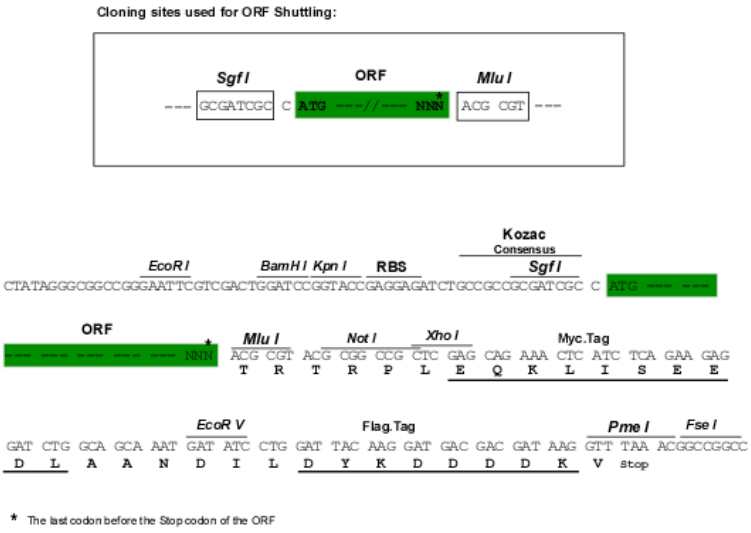
MNFRQLLLHLPRYLGASGSPRRLWWSPSLDTISSVGSWRGRSSKSPAHWNQVVSEAEKIVGYPTSFMSLR
CLLSDELSNIAMQVRKLVGTQHPLLTTARGLVHDSWNSLQLRGLVVLLISKAAGPSSVNTSCQNYDMVSG
IYSCQRSLAEITELIHIALLVHRGIVNLNELQSSDGPLKDMQFGNKIAILSGDFLLANACNGLALLQNTK
VVELLASALMDLVQGVYHENSTSKESYITDDIGISTWKEQTFLSHGALLAKSCQAAMELAKHDAEVQNMA
FQYGKHMAMSHKINSDVQPFIKEKTSDSMTFNLNSAPVVLHQEFLGRDLWIKQIREAQEKGRLDYAKLRE
RIKAGKGVTSAIDLCRYHGNKALEALESFPPSEARSALENIVFAVTRFS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6338_b07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020381

ORF Size: 1197 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_020381.2, NP_065114.2

RefSeq Size: 3568 bp

RefSeq ORF: 1200 bp

Locus ID: 57107

UniProt ID: Q86YH6

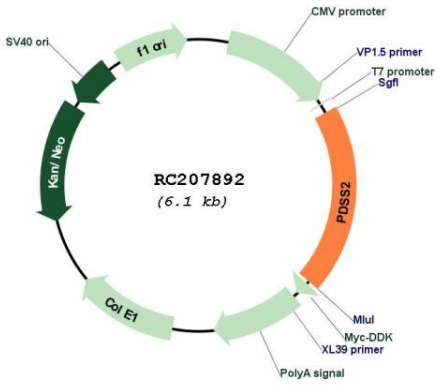
Cytogenetics: 6q21

Protein Pathways: Terpenoid backbone biosynthesis

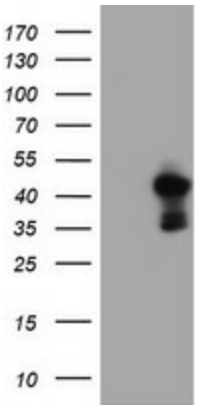
MW: 44.2 kDa

Gene Summary: The protein encoded by this gene is an enzyme that synthesizes the prenyl side-chain of coenzyme Q, or ubiquinone, one of the key elements in the respiratory chain. The gene product catalyzes the formation of all trans-polyprenyl pyrophosphates from isopentyl diphosphate in the assembly of polyisoprenoid side chains, the first step in coenzyme Q biosynthesis. Defects in this gene are a cause of coenzyme Q10 deficiency.[provided by RefSeq, Oct 2009]

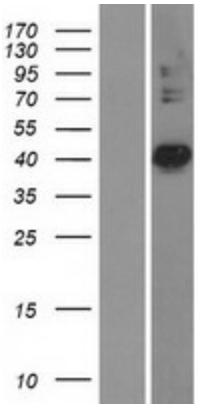
Product images:



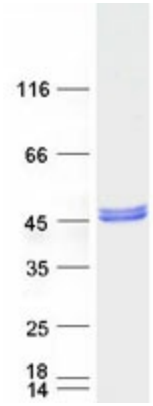
Circular map for RC207892



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY PDSS2 (Cat# RC207892, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PDSS2(Cat# [TA503951]). Positive lysates [LY412512] (100ug) and [LC412512] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY412512]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207892 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PDSS2 protein (Cat# [TP307892]). The protein was produced from HEK293T cells transfected with PDSS2 cDNA clone (Cat# RC207892) using MegaTran 2.0 (Cat# [TT210002]).