

Product datasheet for **SC304078**

DPS1 (PDSS1) (NM_014317) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DPS1 (PDSS1) (NM_014317) Human Untagged Clone
Tag:	Tag Free
Symbol:	DPS1
Synonyms:	COQ1; COQ1A; COQ10D2; DPS; hDPS1; SPS; TPRT; TPT; TPT 1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_014317 edited
 ATGGCCTCGCGCTGGTGGCGGTGGCGGCGGCTGCTCCTGGAAGCCGGCGGCGGAGC
 CCCGGGCCCGGCTCCCCGGCCGTGCGGGACCGTTGGGGCCGAGCGCGCTGCCGAAGTC
 CGCGCGCAGGTTTCATAGCGGAAGGACTTGACTTGTCTCAGATACCCTATATTAATCTT
 GTGAAGCATTTAACATCTGCCTGTCCAAATGTATGTCGTATATCACGGTTTCATCACACA
 ACCCCAGACAGTAAAACACACAGTGGTAAAAATACACCGATCCTTTCAAACCTCGTTGG
 AGAGACTTGAAAGGTCTGTATGAGGACATTAGAAAAGAACTGCTTATATCAACATCAGAA
 CTTAAGGAAATGTCTGAGTACTACTTTGATGGGAAAGGGAAAGCCTTTGACCAATTATT
 GTGGCGCTAATGGCCGAGCATGCAATATTCATCATAACAACCTCCGACATGTGCAAGCC
 AGCCAGCGCGCCATAGCCTTAATTGCAGAAATGATCCACACTGCTAGTCTGGTTCACGAT
 GACGTTATTGACGATGCAAGTTCTCGAAGAGGAAAACACACAGTTAATAAGATCTGGGT
 GAAAAGAAGGCTGTTCTTGCTGGAGATTTAATTCTTTCTGCAGCATCTATAGCTCTGGCA
 CGAATTGGAAATACAACCTGTTATATCTATTTTAAACCAAGTTATTGAAGATTTGGTGCCT
 GGTGAATTTCTTCAGCTCGGGTCAAAGAAAATGAGAATGAAAGATTTGCACACTACCTT
 GAGAAGACATTAAGAAGACCGCCAGCCTGATAGCCAACAGTTGTAAGCAGTCTCTGTT
 CTAGGATGTCCCGACCCAGTGGTGCATGAGATCGCCTATCAGTACGGAATAATGTAGGA
 ATAGCTTTTCAGCTAATAGATGATGATTGGACTTCACCTCGTGTCTGACCAGATGGGC
 AAACCAACATCAGCTGATCTGAAGCTCGGGTTAGCCACTGGTCCGTCTGTTGCTGCTGT
 CAGCAGTTCCAGAAATGAATGCTATGATCATGCGACGGTTCAGTTTGCCTGGAGATGTA
 GACAGAGCTCGACAGTATGTAACAGTACAGAGTATGTTGTGCAACAACAACCTACCTCGCC
 CAGCAGTACTGCCATGAAGCAATAAGAGAGATCAGTAACTTCGACCATCCCCAGAAAGA
 GATGCCCTCATTGACTTTTCAAGAAATTGACTACAAGAGATAAATGA

Restriction Sites:	Please inquire
ACCN:	NM_014317
Insert Size:	1700 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none"> 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_014317.3 , NP_055132.2
RefSeq Size:	1679 bp
RefSeq ORF:	1248 bp
Locus ID:	23590
UniProt ID:	Q5T2R2
Cytogenetics:	10p12.1
Protein Pathways:	Terpenoid backbone biosynthesis
Gene Summary:	The protein encoded by this gene is an enzyme that elongates 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. The protein may be peripherally associated with the inner mitochondrial membrane, though no transit peptide has been definitively identified to date. Defects in this gene are a cause of coenzyme Q10 deficiency. [provided by RefSeq, Jul 2008]