

Product datasheet for **RG212263**

DPS1 (PDSS1) (NM_014317) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DPS1 (PDSS1) (NM_014317) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PDSS1
Synonyms:	COQ1; COQ1A; COQ10D2; DPS; hDPS1; SPS; TPRT; TPT; TPT 1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG212263 representing NM_014317 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCTCGCGTGGTGGCGGTGGCGGCGGGCTGCTCCTGGAAGCCGGCGCGGAGCCCCGGGCCG
GCTCCCCGGCCGTGCGGGACCGTTGGGGCCGAGCGCCGCTGCCGAAGTCCGCGCGCAGGTTTCATAGGCG
GAAGGGACTTGACTTGTCTCAGATACCCATATTAATCTTGTGAAGCATTTAACATCTGCCTGTCCAAT
GTATGTCGTATATCACGGTTTCATCACACAACCCAGACAGTAAACACACAGTGGTAAAAATACACCG
ATCCTTTCAAACTCGGTTGGAGAGACTGAAAGGTCTGTATGAGGACATTAGAAAGGAAGTCTTATATC
AACATCAGAACTTAAGGAAATGTCTGAGTACTACTTTGATGGGAAAGGAAAGCCTTTCGACCAATTATT
GTGGCGCTAATGGCCGAGCATGCAATATTCATCATAACAACCTCCCGACATGTGCAAGCCAGCCAGCGCG
CCATAGCCTTAATTGCAGAAATGATCCACACTGCTAGTCTGGTTCACGATGACGTTATTGACGATGCAAG
TTCTCGAAGAGGAAAACACACAGTTAATAAGATCTGGGGTAAAAAGAAGGCTGTTCTTGCTGGAGATTTA
ATTCTTCTGCAGCATCTATAGCTCTGGCAGCAATTGAAATACAACCTGTTATATCTATTTAAACCAAG
TTATTGAAGATTTGGTGGTGGTGAATTTCTTCAGCTCGGGTCAAAGAAAATGAGAATGAAGATTTGC
ACACTACCTTGAGAAGACATTCAAGAAGACCGCCAGCCTGATAGCCAACAGTTGTAAGCAGTCTCTGTT
CTAGGATGTCACCGACCCAGTGGTGCATGAGATCGCCTATCAGTACGAAAAAATGTAGGAATAGCTTTTC
AGTAATAGATGATGATTGGACTTACCTCGTGTTCGACCAGATGGGCAAAACCAACATCAGCTGATCT
GAAGCTCGGGTTAGCCACTGGTCTGCTGTTTGCCTGTCAGCAGTTCCAGAAAATGAATGCTATGATC
ATGCGACGGTTCAGTTTGCCTGGAGATGTAGACAGAGCTCGACAGTATGTACTACAGAGTATGTTGTC
AACAAACAACCTACCTCGCCAGCAGTACTGCCATGAAGCAATAAGAGAGATCAGTAAACTTCGACCATC
CCCAGAAAAGAGATGCCCTCATTGAGCTTTCAGAAATTGTAAGTACTCACAAGAGATAAA

ACGGTACGGCGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG212263 representing NM_014317
 Red=Cloning site Green=Tags(s)

MASRWWRRGCSWKPAARSPGPGSPGRAGPLGPSAAAEVRAQVHRRKGLDL SQIPYINL VKHL TSACPN
 VCRISRHHHTT PDSKTHSGEKYD PFKLGWRDLKGL YEDIRKELLIST SELKEMSEYYFDGKGKAFRPII
 VALMARACNIHNN SRHVQASQRAIAL IAEMIHTASL VHDDVIDDASSRRGKHTVNKIWGEKKAVLAGDL
 ILSAASIALARIGNTTVISILTQVIEDLVRGEFLQLGSKENENERFAHYLEKTFKKTASLIANSCKAVSV
 LGCPDPVVHEIA YQYGKNVGI AFQLIDDLDF TSCSDQMGKPTSADLKLGLATGPVLFACQQFPEMNAMI
 MRRFSLPGDVDRARQYVYLQSDGVQQTYYLAQQYCHEAIREISKLRPSPERDALIQLSEIVLTRDK

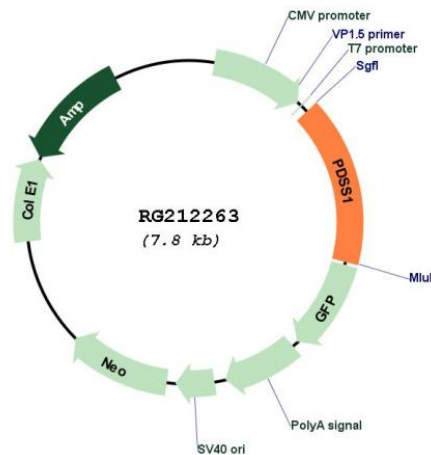
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_014317

ORF Size:	1245 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:	<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_014317.5
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]