

Product datasheet for **RC204570**

PPWD1 (NM_015342) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPWD1 (NM_015342) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PPWD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC204570 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGCGGAAAGTGGTAGCGATTTTCAGCAGAGACGTAGAAGCGCCGGGACCCGGAGGAACCGGAAA
 AACAGAACTCAGCGAAAGAGAGCTGGCAGTAGCAGTGGCGGTGCCAGGAGAACGATGAGGAGAACGA
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence: >RC204570 protein sequence
 Red=Cloning site Green=Tags(s)

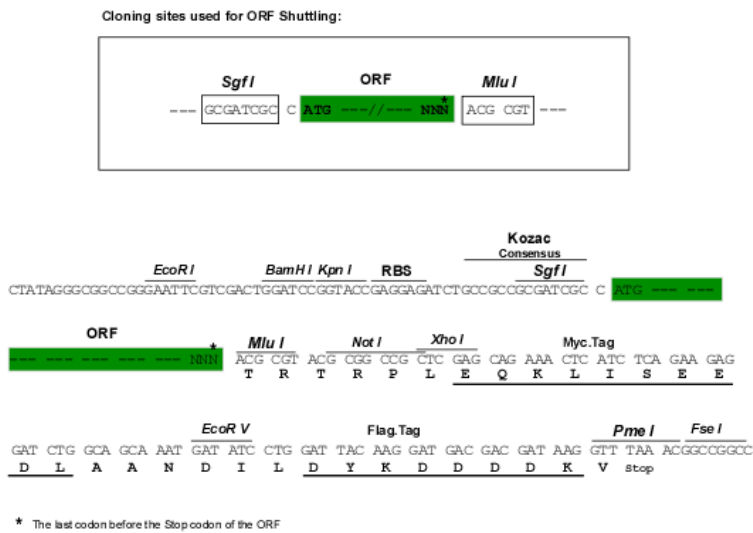
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 TDKPYEDVSIINITVK

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6310_c02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015342

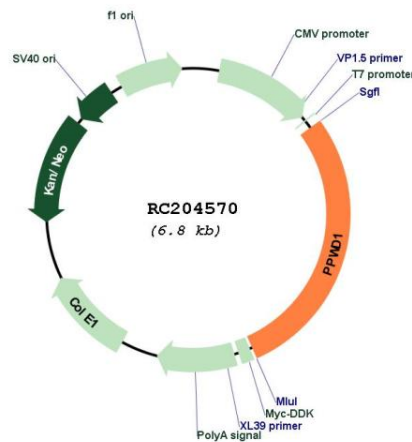
ORF Size: 1938 bp

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](#)

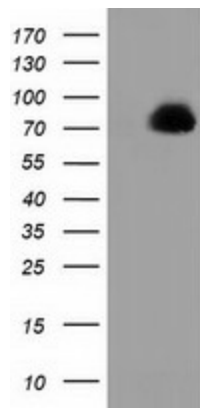
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_015342.1 , NP_056157.1
RefSeq Size:	2186 bp
RefSeq ORF:	1941 bp
Locus ID:	23398
UniProt ID:	Q96BP3
Cytogenetics:	5q12.3
MW:	73.6 kDa
Gene Summary:	PPIase that catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides and may therefore assist protein folding (PubMed:20676357). May be involved in pre-mRNA splicing (PubMed:11991638).[UniProtKB/Swiss-Prot Function]

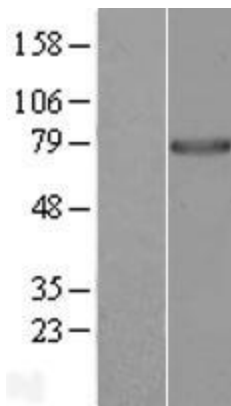
Product images:



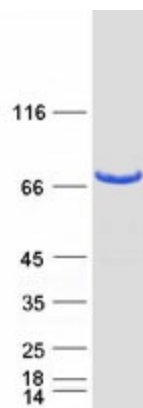
Circular map for RC204570



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY PPWD1 (Cat# RC204570, 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-PPWD1 (Cat# [TA501891]). Positive lysates [LY414604] (100ug) and [LC414604] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY414604]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204570 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PPWD1 protein (Cat# [TP304570]). The protein was produced from HEK293T cells transfected with PPWD1 cDNA clone (Cat# RC204570) using MegaTran 2.0 (Cat# [TT210002]).