

Product datasheet for RC217495

PPTC7 (NM_139283) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPTC7 (NM_139283) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PPTC7
Synonyms:	TA-PP2C; TAPP2C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC217495 representing NM_139283 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTCTCGGTCCTCTCGTACGGGCGGCTGGTGGCCCGCCGCTGCTCGGCGGCTCTCGCAGACCGACC
CCAGGGCCGGCGGCGGCGGCGGCGGCGACTACGGACTGGTACGGCCGGCTGCGGCTTCGGGAAGGACTT
CCGTAAGGGCTCCTCAAGAAGGGCGGTGCTACGGGACGACGCGTCTCGTGCCCGGACCCGTTCC
GCGGACGTGCTCGGGTTGCAGATGGTGTAGGAGGCTGGAGAGACTATGGAGTTGATCCATCTCAATTCT
CAGGGACTTTAATGCGGACGTGTGAACGTTTAGTAAAAGAAGGACGGTTCGTACCTAGTAATCCCATTGG
AATTCTCACACAAGCTACTGTGAGTTGCTGCAAATAAAGTCCCTTTGCTCGGTAGCAGCACCGCTGC
ATTGTGGTGTGACAGAACAGCCACCGCTTACACACAGCAAACCTGGGCGATTAGGCTTCTGGTTG
TCAGGGGTGGTGAAGTCGTGCACCGATCAGATGAGCAGCAGCATTACTTCAACACTCCATTCCAGCTCTC
AATCGCTCCCCCTGAAGCCGAGGGAGTCGTCTTGAGCGACAGTCCGGATGCTGCTGATAGCACGTCTTC
GATGTCCAGCTAGGAGACATTATCCTGACGGCAACAGATGGACTCTTTGACAACATGCCTGATTATGA
TTCTTCAGGAGCTAAAAAGTTAAAGAATTCAAATTATGAGAGTATAACACAGACTGCCAGAAGCATTGC
TGAGCAAGCTCATGAGCTGGCCTATGACCCAAATTATGTACCTTTTGACAGTTTGCATGTGACAAT
GGATTGAATGTGAGAGGTGAAAGCCAGATGACATCACCGTCTTCTTCAATAGTGGCTGAGTATACAG
AC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC217495 representing NM_139283
 Red=Cloning site Green=Tags(s)

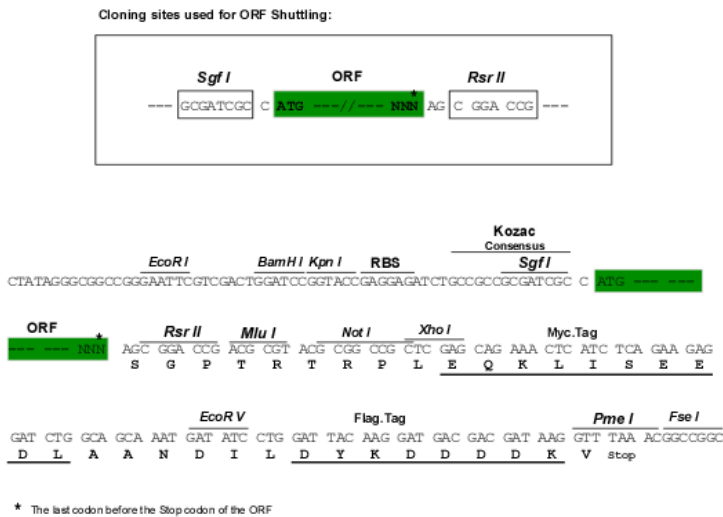
MFSVL SYGRLVARAVLGGLSQTDP RAGGGGGDYGLVTAGCGFGKDFRKGLLKKGACYGDDACFVARHRS
 ADVLGVADGVGGWRDYGVDPSQFSGTLMRT CERLVKEGRFVPSNP I GILTTSYCELLQNKVPLLGSSTAC
 IVVLDRTSHRLHTANLGD SGFLVVRGGEVVHRSDEQQHYFNTPFQLSIAPPEAEGVVLSDSPDAADSTSF
 DVQLGDIILTATDGLFDNMPDY MILQELKKLKNSNYESIQQTARSIAEQAHELAYDPNYMSPFAQFACDN
 GLNVRGGK PDDITVLLSIVA EYTD

SGP TRTRRLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6809_e11.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_139283

ORF Size: 912 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_139283.2](#)

RefSeq Size: 3748 bp

RefSeq ORF: 915 bp

Locus ID: 160760

UniProt ID: [Q8NI37](#)

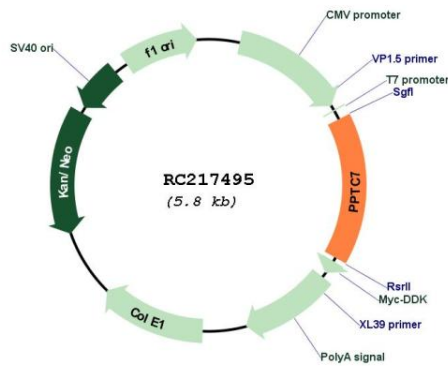
Cytogenetics: 12q24.11

Protein Families: Druggable Genome, Phosphatase

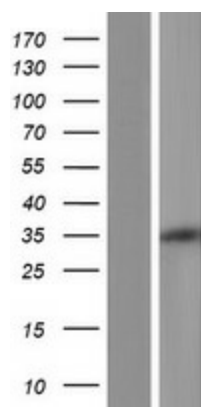
MW: 32.5 kDa

Gene Summary: Protein phosphatase which positively regulates biosynthesis of the ubiquinone, coenzyme Q (PubMed:30267671). Dephosphorylates the ubiquinone biosynthesis protein COQ7 which is likely to lead to its activation (PubMed:30267671).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC217495



Western blot validation of overexpression lysate (Cat# [LY408339]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217495 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).