

Product datasheet for **RC231399**

ATP5MF-PTCD1 (NM_001198879) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	ATP5MF-PTCD1
Synonyms:	ATP5J2-PTCD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC231399 representing NM_001198879
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGTCAGTTGTACCACTGAAGGACAAGAACTTCTGGAGGTCAAACCTGGGGGAGCTGCCAAGCTGGA
TCTTGATGCGGGACTTCAGTCCTAGTGGCATTTTCGGAGCGTTTCAAAGAGGCCCTGGAGGGACAGGAAA
GCCAGAAATGGACTTCGTGAGACTCGCTCGACTGTTCCGCAGGGCCCGCCCATGGGACTGTTATCCTCTG
CAACACCTGGACCCCTGTAGAGCCAGGTGGGCAGGAGGCAGGGAGGGGCTGATGCGGCCAATGTGGGCGC
CCTTCAGCAGCTCCTCCTCTCAGCTGCCCTCGGCCAGGAGCGTCAGGAAAACACGGGCAGCCTGGGCTC
TGACCCGAGCCACTCCAACCTCCACGGCCACGCAGGAAGAAAGACGAGGAGGAGGAGGAGATTTTGGGACC
CTCTCTGACAAATACTCCTCCCGGAGACTATTCCGCAAATCCGCAGCCCAGTTCCATAACCTGCGGTTTG
GGGAACGGAGAGATGAGCAAATGGAACCGAGCCCAAATTATGGCGAGGCCGGAGAAACACCCCGTACTG
GTACTTCTTTCAGTGCAAACACCTGATCAAGGAAGGGAAGCTGGTTGAAGCCCTGGACCTGTTTGAGAGG
CAGATGCTGAAGGAGGAGCGATTGCAGCCCATGGAGAGCAACTACACGGTGCTGATTGGGGCTGCGGGC
GGGTTGGCTACCTGAAGAAGGCCCTCAACCTCTACAACCAGATGAAAAAGCGGGACCTGGAGCCCTCGGA
CGCCACCTACACGGCCCTGTTCAACGTCTGTGCCGAGTCCCCCTGGAAGGACTCAGCTCTACAGAGCGCC
CTGAAGCTCCGGCAGCAGCTGCAGGCCAAAACTTCGAGCTCAACTTGAACATACACGCGCTGCTGA
AGATGGCTGCCAAGTGCGCAGACCTTAGGATGTGCCTCGATGTGTTCAAGGAAATCATCCACAAAGGGCA
CGTGGTCACAGAGGAGACCTTCAGTTTCTGCTCATGGGCTGCATCCAAGACAAGAAGACAGGCTTCCGG
TACGCCCTCCAGGTGTGGCGGCTGATGCTGAGTCTAGGGCTACAGCCGAGCCGGGACAGCTACAACCTGC
TGTTGGTGGCAGCTCGGACTGTGGCTAGGGGACCCCAAGTGGCTCAGAGCTGCTTCTGAAGCCAG
GGAGGAGGCGACTGTGCTTCAGCCCCCAGTGAGCAGGCAGCGGCCAAGGAGGACAGCCAGGCCAAGGCA
GGCAACCTCATGTAGCCATGCTGCATGTGGAGGCCCTGGAGAGGCAGCTGTTTCTGGAACCTTCTCAGG
CACTTGGGCTCCAGAGCCTCCGGAAGCCAGAGTGCCCGGCAAGGCCCAACAGAGGTGGATACTAAGGC
AGAGCCAGCCACACAGCAGCCCTCACCGCAGTGGCCCTGAAGCCACCTCCCGTGGAGCTGGAAGTCAAC
CTCCTGACCCCGGGGCGGTTCCCCCTACAGTGGTCTCCTTTGGAACGGTGACCACCCAGCTGACCGGC
TGGCCTTGATAGGGGGCTGGAGGGCTTCTGAGCAAGATGGCAGAGCACAGGCAGCAGCCGACATCAG
GACCTCACGCTACTGGCCGAGGTGGTGGAGTCCGGGAGTCTGCAGAGTCTTGTCTGCTGGCCCTCCTG
GATGAGCACCAGGTAGAGGCCGACCTGACATTCTTTAACACGCTGGTGAGAAAGAAGAGCAAGCTGGGAG
ACCTGGAGGGGGCCAAGGCGCTGTTGCCGGTCTGGCAAAGAGGGGCTCGTCCCCAACCTGCAGACATT
CTGCAACCTGGCCATCGGTGCCACAGGCCGAAGGACGGTCTACAGCTTCTACAGACATGAAGAAGTCC
CAGGTGACCCCAACACTCACATCTACAGTGCCCTCATCAACGCGGCCATCAGGAAGCTGAACACACCT
ATCTCATCAGCATCTTGAAGGACATGAAGCAGAACAGGGTCCCGGTGAACGAAGTGGTATCCGCCAGCT
GGAGTTTGACAGCCAGTACCTCCACCTTTGACCGGTACCAAGGGAAGAACCTACCTGGAGAAGATT
GACGGCTTCCGAGCCTATTACAAGCAGTGGCTGACAGTGATGCCCCGAGAGGAAACCCGACCCCTGGC
AGAAGTTCGGACCAAGCCCCAGGGGACAGGACACCGGCAAGGAGGCTGATGACGGATGTGCCCTTGG
GGCAGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC231399 representing NM_001198879

Red=Cloning site Green=Tags(s)

MASVVPVKDKKLEVKLGELPSWILMRDFSPSGIFGAFQRPGGTGKPEMDFVRLARLFARARPMGLFIL
QHLDPCRARWAGGREGLMRPMWAPFSSSSSQLPLGQERQENTGSLGSDPSHSNSTATQEEDDEEEESFGT
LSDKYSSRRLFRKSAAQFHNLRFGERRDEQMEPEPKLWRGRNTPYWFYLCCKHLIKEGKLEALDLFER
QMLKEERLQPMESNYTVLIGGCGRVGYLKAFNLYNQMKRDLEPSDATYTALFNVCAESPWKDSALQSA
LKLRRQLQAKNFELNLKTYHALLKMAAKCADLRMCLDFVKEIIHKGHVVTEETFSLLMGCIQDKKTGFR
YALQVWRLMLSLGLQPSRDSYNLLVAARDCGLGDPQVASELLLKPREEATVLPVPSRQRPRTAQAKA
GNLMSAMLHVEALERQLFLEPSQALGPPEPPEARVPGKAQPEVDTKAEPSTAAALTAVALKPPPVELEVN
LLTPGAVPPTVVVSFGTVTPADRLALIGGLEGLSKMAEHRQQPDITLTLAEVVESGSPAESLLALL
DEHQVEADLTFNTLVRRKSKLGDLEGAKALLPVLAKRGLVPLNLQTFCNLAIGCHRPKDGLQLLTMKKS
QVTPNTHIYSALINAAIRKLNITYLISILKDMQNRPVNEVVIRQLEFAAQYPPTFDYRQKNTYLEKI
DGFRAYYKQWLTVMPAETPHPWQKFRTPQGDQDTGKEADDGCALGGR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

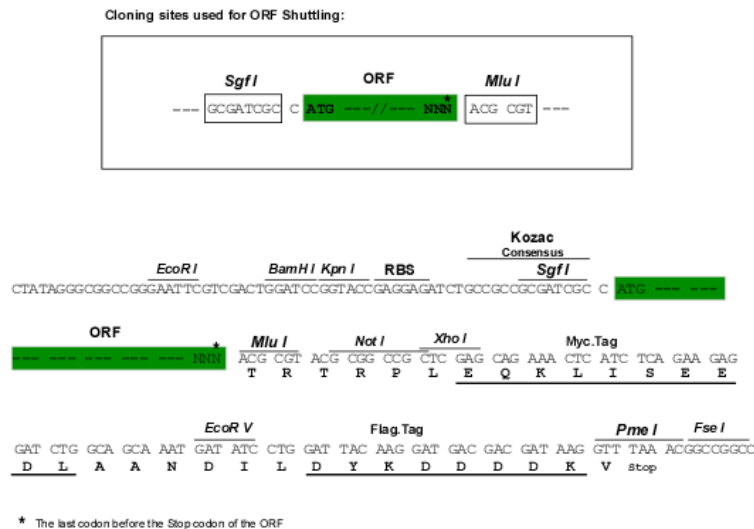
Chromatograms:

https://cdn.origene.com/chromatograms/mk8117_c03.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_001198879

ORF Size:

2247 bp

OTI Disclaimer:

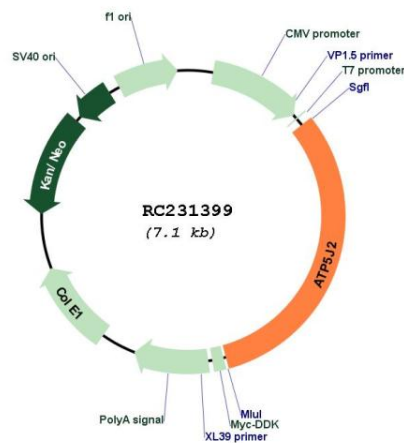
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001198879.2</u>
RefSeq ORF:	2250 bp
Locus ID:	100526740
Cytogenetics:	7q22.1
MW:	84.6 kDa
Gene Summary:	This locus represents naturally occurring read-through transcription between the ATP5J2 (ATP synthase, H ⁺ transporting, mitochondrial Fo complex, subunit F2) and PTCD1 (pentatricopeptide repeat domain 1) genes on chromosome 7. The read-through transcript encodes a fusion protein that shares sequence identity with each individual gene product. [provided by RefSeq, Nov 2010]

Product images:



Circular map for RC231399