

Product datasheet for **RG211911**

PTCD1 (NM_015545) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTCD1 (NM_015545) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PTCD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RG211911 representing NM_015545
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACTTCGTGAGACTCGCTCGACTGTTCCGCAGGGCCCGCCCATGGGACTGTTTCATCCTGCAACACC
 TGGACCCCTGTAGAGCCAGGTGGGCAGGAGGCAGGGAGGGGCTGATGCGGCCAATGTGGGCGCCCTTCAG
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 TCCGAGCCTATTACAAGCAGTGGCTGACAGTGATGCCCGCAGAGGAAACCCCGCACCCCTGGCAGAAGTT
 CCGGACCAAGCCCCAGGGGGACAGGACACCGCAAGGAGGCTGATGACGGATGTGCCCTTGGGGGCAGG

ACGCGTACGCGGCGGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG211911 representing NM_015545
 Red=Cloning site Green=Tags(s)

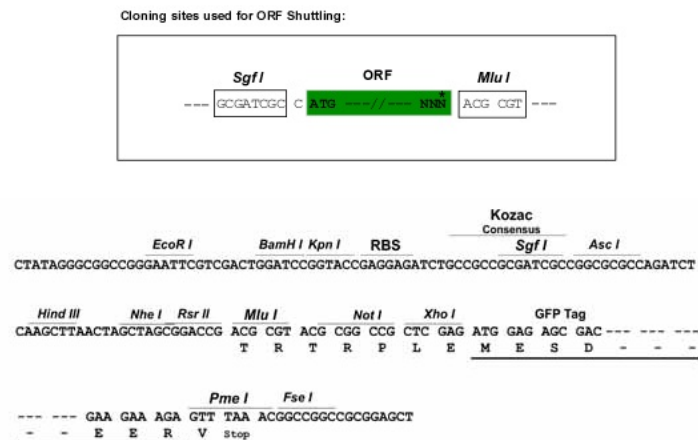
MDFVRLARLFARARPMGLFILQHLDPCRARWAGGREGLMRPMWAPFSSSSSQLPLGQERQENTGSLGSDP
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 TLLAEVVEGSPAESLLALLDEHQVEADLTFFNTLVRKSKLGDLEGAKALLPVLAKRGLVPNLQTFCN
 LAIGCHRPKDGQLLLTDMKKSQVTPNTHIYSALINAAIRKLNITYLISILKDMQNRPVNEVVIRQLEF
 AAQYPPTFDRYQGKNTYLEKIDGFRAYYKQWLTVMPEETPHWPQKFRTPQGDQDTGKEADDGCALGGR

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_015545

ORF Size: 2100 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: [NM_015545.4](#)

RefSeq Size: 3079 bp

RefSeq ORF: 2103 bp

Locus ID: 26024

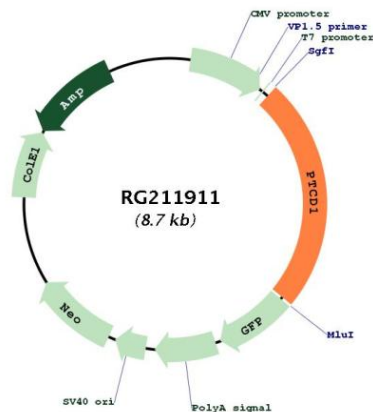
UniProt ID: [O75127](#)

Cytogenetics: 7q22.1

Domains: PPR

Gene Summary: This gene encodes a mitochondrial protein that binds leucine tRNAs and other mitochondrial RNAs and plays a role in the regulation of translation. Increased expression of this gene results in decreased mitochondrial leucine tRNA levels. Naturally occurring read-through transcription exists between upstream ATP5J2 (ATP synthase, H⁺ transporting, mitochondrial Fo complex, subunit F2) and this gene. [provided by RefSeq, Aug 2015]

Product images:



Circular map for RG211911