

Product datasheet for **SC112604**

PTCD1 (NM_015545) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTCD1 (NM_015545) Human Untagged Clone
Tag:	Tag Free
Symbol:	PTCD1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC112604 sequence for NM_015545 edited (data generated by NextGen Sequencing)

ATGGACTTCGTGAGACTCGCTCGACTGTTCCGACGGGCCCCGCCCATGGGACTGTTTCATC
 CTGCAACACCTGGACCCCTGTAGAGCCAGGTGGGACAGGAGGAGGGGCTGATGCGG
 CCAATGTGGGCGCCCTTCAGCAGCTCCTCCTCTCAGCTGCCCCCTCGGCCAGGAGCGTCAG
 GAAAACACGGGCAGCCTGGGCTCTGACCCGAGCCACTCCAACCTCCACGGCCACGCAGGAA
 GAAGACGAGGAGGAGGAGAGAGTTTGGGACCTCTCTGACAAATACTCCTCCCGGAGA
 CTATTCCGCAAAATCCGCAGCCAGTTCCATAACCTGCGGTTTGGGGAACGGAGAGATGAG
 CAAATGGAACCGGAGCCCAAATTATGGCGAGGCCGAGAAAACACCCCATCTGGTACTTC
 TTGCAAGTGCAACACCTGATCAAGGAAGGGAAGCTGGTTGAAGCCCTGGACCTGTTTGAG
 AGGCAGATGCTGAAGGAGGAGCGATTGCAGCCCATGGAGAGCAACTACACGGTGCTGATT
 GGGGGCTGCGGGCGGTTGGCTACCTGAAGAAGGCCTTCAACCTCTACAACAGATGAAA
 AAGCGGGACCTGGAGCCCTCGGACGCCACCTACACGGCCCTGTTCAACGTCTGTGCCGAG
 TCCCCCTGGAAGGACTCAGCTCTACAGAGCGCCCTGAAGCTCCGGCAGCAGCTGCAGGCC
 AAAAATTCGAGCTCAACTTGAACACATACCACGCGCTGCTGAAGATGGCTGCCAAGTGC
 GCAGACCTTAGGATGTGCCTCGATGTGTTCAAGGAAATCATCCACAAAGGGCACGTGGTC
 ACAGAGGAGACCTTCAGTTTCCTGCTCATGGGCTGCATCCAAGACAAGAAGACAGGCTTC
 CGGTACGCCCTCCAGGTGTGGCGGCTGATGCTGAGTCTAGGGCTACAGCCGAGCCGGGAC
 AGCTACAACTGCTGTTGGTGGCAGCTCGGGACTGTGGCTAGGGGACCCCCAGGTGGCC
 TCAGAGCTGCTTCTGAAGCCAGGGAGGAGGCGACTGTGCTTCAGCCCCCAGTGAGCAGG
 CAGCGGCCAAGGAGGACAGCCAGGCCAAGGCAGGCAACCTCATGTCAGCCATGCTGCAT
 GTGGAGGCCCTGGAGAGGCAGCTGTTTCTGGAACCTTCTCAGGCACCTTGGGCCTCCAGAG
 CCTCCGGAAGCCAGAGTGCCCGCAAGGCCCAACCAGAGGTGGATACTAAGGCAGAGCCC
 AGCCACACAGCAGCCCTCACCGCAGTGGCCCTGAAGCCACCTCCCGTGGAGCTGGAAGTC
 AACCTCCTGACCCCCGGGGCCGTTCCCCCTACAGTGGTCTCCTTTGGAACGGTGACCACC
 CCAGCTGACCGGCTGGCCTTGATAGGGGGCCTGGAGGGCTTCTGAGCAAGATGGCAGAG
 CACAGGCAGCAGCCGACATCAGGACCCTCACGCTACTGGCCGAGGTGGTGGAGTCCGGG
 AGTCTGCAGAGTCCTTGCTGCTGGCCCTCCTGGATGAGCACCAGGTAGAGGCCGACCTG
 ACATTCTTTAACACGCTGGTGAGAAAGAAGAGCAAGCTGGGAGACCTGGAGGGGGCCAAG
 GCGCTGTTGCCGGTCTTGCCAAAGAGGGGCCTCGTCCCCAACCTGCAGACATTCTGCAAC
 CTGGCCATCGGGTGCCACAGGCCGAAGGACGGTCTACAGCTTCTCACAGACATGAAGAAG
 TCCAGGTGACCCCCAACACTCACATCTACAGTGCCTCATCAACGCGGCCATCAGGAAG
 CTGAACTACACCTATCTCATCAGCATCTTGAAGGACATGAAGCAGAACAGGGTCCCGGTG
 AACGAAGTGGTCATCCGCCAGCTGGAGTTTGCAGCCAGTACCCTCCCACCTTTGACCGG
 TACCAAGGGAAGAACACCTACCTGGAGAAGATTGACGGCTTCCGAGCCTATTACAAGCAG
 TGGCTGACAGTGATGCCCGCAGAGGAAACCCCGCACCCCTGGCAGAAATTCCGGACCAAG
 CCCCAGGGGGACAGGACACCGCAAGGAGGCTGATGACGGATGTGCCCTTGGGGGCAGG
 TGA

Clone variation with respect to NM_015545.3
 408 g=>a

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_015545 unedited
 TGTCGCATTTGTATACGACTCCTATAGCGGCCGCGNAATTTCGCACGAGGGGCAGGGCTC
 CCCGTCGGAGTGCACTGCGCCGGACACTTCAAGCCCTGGAGGGACAGGAAAGCCAGAAAT
 GGACTTCGTGAGACTCGCTCGACTGTTCCGCCAGGGCCCGCCCATGGGACTGTTATCCT
 GCAACACCTGGACCCCTGTAGAGCCAGGTGGGCAGGAGGCAGGAGGGGGTGTATGCGGCC
 AATGTGGGCGCCCTTCAGCAGCTCCTCCTCAGCTGCCCTCGGCCAGGAGCGTCAGGA
 AAACACGGGCAGCCTGGGCTCTGACCCGAGCCACTCCAACCTCCAGGCCACGCAGGAAGA
 AGACGAGGAGGAGGAGGAGATTTTGGGACCCCTCTCTGACAAATACTCCTCCCGGAGACT
 ATTCGCGAAATCCGCAGCCAGTTCATTAACCTGCGGTTTGGGGAACGGAGAGATGAGCA
 AATGGAACCGGAGCCAAATTATGGCGAGGCCGGAGAAACACCCATACTGGTACTTCTT
 GCAGTGCAAAACCTGATCAAGGAAGGGAAGCTGGTTGAAGCCCTGGACCTGTTTGAGAG
 GCAGATGCTGAAGGAGGAGCGATTGCAGCCCATGGAGAGCAACTACACGTGCTGATTGNG
 GGCTGCGGGCGGGTTGGTACCTGAAGAGGCCCTCAACCTCTACACCAGATGAAAAAGCG
 GGACCTGGAGCCCTCGGACGCCACCTACACGGNCCTGTTCAACGTCTGTGCCGAGTCCCC
 CTGGAGGACTCAGCTCTACAGAGCGCCCTGAAAGCTCCGCAGCAGCTGCAAGCCAAAAAC
 TTCGAGCTCAACTTGAAACATACCACGCGCTGCCTGAGATGGGCTGCCAGTGCGCAGAC
 TTTAGATGTGCCTCGATGTGTTCAAG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_015545 unedited
 TCTTCTGTCCCGCGCCCGCACTCCTAGCACCGCGTCTTTTTTTTTTTTTTTCTTGATT
 GGCAAACGTGCGTTGGATTGTCAGCAACATATCATAAATAGACATACAGATGTAACCTCG
 GTGTCAACAGCAGCTGGTTCTACCTTCATGAGGAGCCAAATTTCCCTGCCAGACCTG
 CCACGGAAGGGTTCCTGAGGTGTGTCCCTATATGGCATGTTGTCAGCCCCCTCTGTCCC
 CTCTGCCTCCCCCATTTCCCCCATTTTCCCCCTCCCCCCCCCTTTTTCCCCCTTTCC
 CCTCTCCCTCCCTTTTCCCCCTTCCCCCTTTTTCCCCCCCCCTCCCCCTTTTCT
 CTCTCCCTTCCCCCCCCCTTCTTTTTTTTTTTTTTCCCCCTCTCCCCCCCCCTCCC
 TTCCCCCTTTTTTCCCTCCTTCCCCCTCCCCCTCCCCCTCTCGTCCCGCCCCCCCCATT
 ATTCTCTTTTTTCCCCCCCCCCCCCCCCCTTTTTCTTCCCCCTCCCATTTTCCCC
 CCCCTTCGTTCCCTTCTCCCATTTTCCCCCCCCCTCCCCCTTTCCCCCTTCCCTT
 CTCCCCCTCCCTTCTCCATCTCCTTTTCTCCTTCCCTTCCCCCTTCCCCCTCCCCCT
 CCCCCACGGACTTCTCCCATTTCACTTCGCGCTTTTCTTCCCTTCTCTCTCTTTCTTC
 TCTTCTCCTTCTCTTTTTCTCTCCCCCTTTCCCCCGCTCCTCCTTCCCTTTTCTAA
 ATTCCCTCCTGTCTTCTCCACTTCCCTTTCTCTCCCATTTCCCTTCTCTCCCATCC
 TTTTTCTCCTTCTTCTCGCGCTTCTTTTTCTCTCGTCCCCCATCACCTCTCCCATCT
 CAATCGCGCTCCGCTTACANATCTCACCTCTCCCCGCGCTTACTCCACCCGCGCTCCGTT
 TTTCCGTTCTTTTTCTCCTCCTCTCGCTCCCCCTATCTTCTTTCTCCATTCCCC
 CCTCATTCAGCTTCCGTCGG

Restriction Sites:

NotI-NotI

ACCN:

NM_015545

Insert Size:

3090 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<u>NM_015545.2, NP_056360.2</u>
RefSeq Size:	3079 bp
RefSeq ORF:	2103 bp
Locus ID:	26024
UniProt ID:	<u>O75127</u>
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]