

Product datasheet for **RG215253**

PTCD2 (NM_024754) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTCD2 (NM_024754) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PTCD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215253 representing NM_024754 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTCCGAGACAGTATGGCTGCTGCATTCGGCCCTCGAATCGAGTTCTCCTGCAGGCGCTGCAGATTT
TGGTGTATCCTGGGGTGGGAGGCTCCGGCTCTGTACAGTCCCGCTGCCCTCTCGGAGCTAAAAGATACCT
ACTTACAGATAATGTGGTGAATTTAAAAGAATTTCAACAAAAGAAAGTGGCTGTTGCATGTAATCTTTCT
GGCACTAAAGAACGTATTTTAGAAACTTGAAAAGAAACTGACCCAGAACAAGCTCATCTTGAAGGGG
AGTTGATAACCTTACTACATTTGTGTAGTCTCGGGACCATGTGGAAGTGGCTAAAAATGCATTTACAG
GTACCATGCAGAGAACAATAATTTCACTTTGGGGAGTATAAATTTGGACCGCTTTTTGTGAGGTTGTGT
TACGAGTTGGATCTCGAGGAATCTGCAAGTGGAGCTCATGAAAGACCAGCATTACGAGGTTTCTTCTCAG
ACTCCACATCATTCAATATTTTGTGATGATGTTATTTATCAAAGGCAAAATAAAAAGTCTTTGCAAGT
ATTGATAGAGATGAAAAACCAAGATGTGAAGTTCACCAAAGATACCTATGTTCTTGCTTTTGCAATTTGC
TACAACTGAATAGCCCTGAGTCTTTCAAATCTGTACTACATTAAGAGAAGAAGCTCTACTCAAAGGAG
AAATTCTCTCCAGGAGAGCATCCTGTTTCGCTGTGGCATTAGCTCTGAATCAGAATGAGATGGCAAAAGC
TGTGTCCATTTTTCTCAAATCATGAATCCAGAAAGCATAGCCTGCATTAATTTAAATATTATAATCCAT
ATCCAGTCAAATATGTTGAAAACCTGATAAAGACTCTAAAAATGCTGCAGAAGGAAATTTATCAAAT
TTGTGAAAAGACATGTGTTCTCGGAGGAAGTGTGGCCAAAGTGAGGGAAAAAGTGAAGGATGTGCCTGC
CCTTGTGGCCAAATTTGATGAGATCTATGGGACTGCACATCACTGGCCAGGTCACTACTGATTCTTTG
GATGCTGTGCTCTGCCACACCCCGAGGACAGGAAATCTCACAGTTGCTATTAACAAGAGGATGGTCA
GCCGTCGCACCTTCCAGCCACTCAGCCAGTCCCTGTTGGCTGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG215253 representing NM_024754
 Red=Cloning site Green=Tags(s)

MVRDSMAAAFRRSNRVLQLQILVYPGVGGSGSVSCRCPLGAKRYLLTDNVVKLKEFQQKQKAVACNLS
 GTKETYFRNLKKKL TQNKLI LKGEIITLLHLCE SRDHVELAKNVIYRYHAENKNFTLGEYKFGPLFVRLC
 YELDLEESAVELMKDQHLRGFFSDSTSFNILMDMLFIKGYKSALQVLIEMKNQDVKFTKDYVLAFAIC
 YKLNSPESFKICTTLREEALLKGEILSRRASCF AVALALNQEMAKAVSIFSQIMNPESIAICINLNIIH
 IQSNMLENLIKTLKNAEGLSKFVKRHVFSEEVLAKVREKVKDVPALVAKFDEIYGTLHITGQVTTDSL
 DAVLCHTPRDRKSHTLLLNKRMVSRRTFQPLSQSLLAE

TRTRPLE - GFP Tag - V

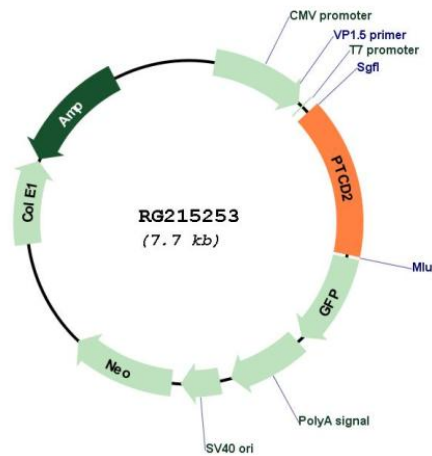
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_024754

ORF Size:	1164 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_024754.5
RefSeq Size:	2103 bp
RefSeq ORF:	1167 bp
Locus ID:	79810
UniProt ID:	Q8WV60
Cytogenetics:	5q13.2
Domains:	PPR
Gene Summary:	Involved in mitochondrial RNA maturation and mitochondrial respiratory chain function. [UniProtKB/Swiss-Prot Function]