

Product datasheet for **RG236492**

PTCD2 (NM_001284405) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PTCD2 (NM_001284405) 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: >RG236492 representing NM_001284405.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAAAAACCAAGATGTGAAGTTCACCAAAGATACCTATGTTCTTGCTTTTGAATTTGCTACAACTG
AATAGCCCTGAGTCTTTCAAATCTGTACTACATTAAGAGAAGAAGCTCTACTCAAAGGAGAAATTC
TCCAGGAGAGCATCCTGTTTCGCTGTGGCATTAGCTCTGAATCAGAATGAGATGGCAAAGCTGTGTCC
ATTTTTTCTCAAATCATGAATCCAGAAAGCATAGCCTGCATTAATTTAAATATTATAATCCATATCCAG
TCAAATATGTTGGAAAACCTGATAAAGACTCTAAAAATGCTGCAGAAGGAAATTTATCAAATTTGTG
AAAAGACATGTGTTCTCGGAGGAAGTCTGGCCAAAGTGAGGAAAAAGTGAAGGATGTGCTGCCCTT
GTGGCCAAATTTGATGAGATCTATGGGACACTGCACATCACTGGCCAGGTCACCACTGATTCTTTGGAT
GCTGTGCTCTGCCACACCCCGAGGACAGGAAATCTCACACGTTGCTATTAACAAGAGGATGGTCAGC
CGTCGCACCTTCCAGCCACTCAGCCAGTCCCTGTTGGCTGAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG236492
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MKNQDVKFTKDITYVLAFACYKLNSPESFKICTTLREEALLKGEILSRRASCFVALALNQEMAKAVS
IFSQIMNPESIAICINLNIHIIHQSNMLENLIKTLKNAEGLSKFVKRVHFSEEVLAQVREKVDVPL
VAKFDEIYGLHITGQVTTDSLDAVLCHTPRDRKSHLLLLNKRMSRRTFQPLSQSLLAE
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: SgfI-MluI

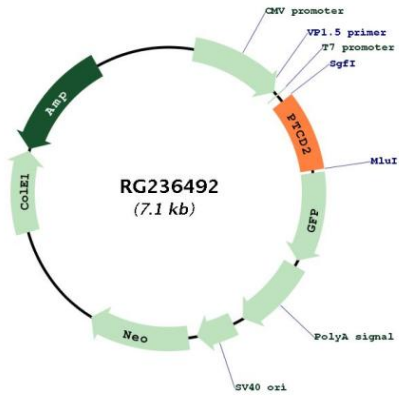


Cloning Scheme:



- ACCN: NM_001284405
- ORF Size: 594 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).
- RefSeq: [NM_001284405.1](#), [NP_001271334.1](#)
- RefSeq Size: 2049 bp
- RefSeq ORF: 597 bp
- Locus ID: 79810
- Cytogenetics: 5q13.2
- MW: 22.8 kDa
- Gene Summary: Involved in mitochondrial RNA maturation and mitochondrial respiratory chain function. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG236492