

## Product datasheet for **RG203382**

### **PYCR3 (NM\_023078) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PYCR3 (NM_023078) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PYCR3
Synonyms:	PYCR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203382 representing NM_023078 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGCTGCGGAGCCGTCTCCGCGCGCGTGGGCTTCGTGGGCGGGCCGCATGGCGGGGGCCATCG  
CGCAGGGCCTCATCAGAGCAGGAAAAGTGAAGCTCAGCACATACTGGCCAGTGCACCAACAGACAGGAA  
CCTATGCACTTTCAAGCTCTGGTTGCCGGACCACGCACTCCAACCAGGAGGTGCTGCAGAGCTGCCTG  
CTCGTCATCTTTGCCACCAAGCCTCATGTGCTGCCAGCTGTCTGGCAGAGGTGGCTCCTGTGGTACCA  
CTGAACACATCTTGGTGTCCGTGGCTGTGGGGTGTCTCTGAGCACCTGGAGGAGCTGTGCCCCAAA  
CACACGGGTGCTGCGGGTCTTGCCCAACCTGCCCTGTGTGGTCCAGGAAGGGCCATAGTGATGGCGCGG  
GGCCGCCACGTGGGAGCAGCGAGACCAACCTCCTGCAGCATCTGCTGGAGGCCTGTGGGCGGTGTGAGG  
AGGTGCCTGAAGCCTACGTGACATCCACACTGGCCTCAGTGGCAGTGGCGTGGCCTTCGTGTGTGATT  
CTCCGAGGCCCTGGCTGAAGGAGCCGTCAAGATGGGCATGCCAGCAGCCTGGCCACCAGCATCGTGCC  
CAGACCCTGCTGGGACGGCCAAGATGCTGCTGCACGAGGGCCAACCCAGCCAGCTGCGCTCAGACG  
TGTGCACCCCGGGTGGCACCACCATCTATGGACTCCACGCCCTGGAGCAGGGCGGCTGCGAGCAGCCAC  
CATGAGCGCCGTGGAGGCTGCCACCTGCCGGGCCAAGGAGCTCAGCAGAAAG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG203382 representing NM\_023078  
 Red=Cloning site Green=Tags(s)

MAAAEPSRRRVGFGAGRMAGIAQGLIRAGKVEAQHILASAPTDRNLCHFQALGCRTHSNQEVLQSC  
 LVIFATKPHVLPVLAEVAPVVTTEHILVSVAAAGVSLSTLEELLPPNTRVLRVLPNLPCVVQEGAIVMAR  
 GRHVGSSSETNLLQHLLEACGRCEEVPEAYVDIHTGLSGSGVAFVCAFSEALAEGAVKMGMPSSLAHRIAA  
 QTLTGTAKMLLHEGQHPAQLRSDVCTPGGTTIYGLHALEQGGLRAATMSAVEAATCRAKELSRK

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_023078

**ORF Size:** 822 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.

**RefSeq:** [NM\\_023078.1](#), [NP\\_075566.1](#)

**RefSeq Size:** 2331 bp

**RefSeq ORF:** 825 bp

**Locus ID:** 65263

**UniProt ID:** [Q53H96](#)

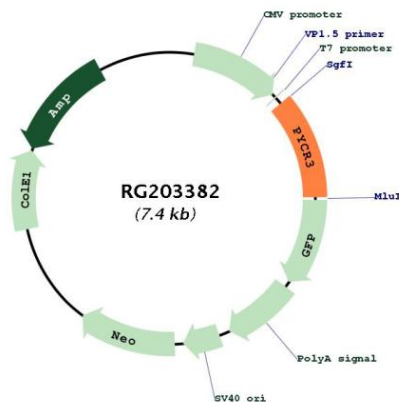
**Cytogenetics:** 8q24.3

**Domains:** P5CR

**Protein Pathways:** Arginine and proline metabolism, Metabolic pathways

**Gene Summary:** This gene encodes a protein that belongs to the pyrroline-5-carboxylate reductase family of enzymes. Members of this family catalyze the final step in proline biosynthesis, converting pyrroline-5-carboxylate to proline. Glutamate and ornithine are precursors in the synthesis of proline. The protein encoded by this gene is a cytoplasmic enzyme involved in the biosynthesis of proline from ornithine. [provided by RefSeq, Aug 2016]

### Product images:



Circular map for RG203382