

# Product datasheet for RC203382

# PYCR3 (NM\_023078) Human Tagged ORF Clone

# **Product data:**

#### OriGene Technologies, Inc.

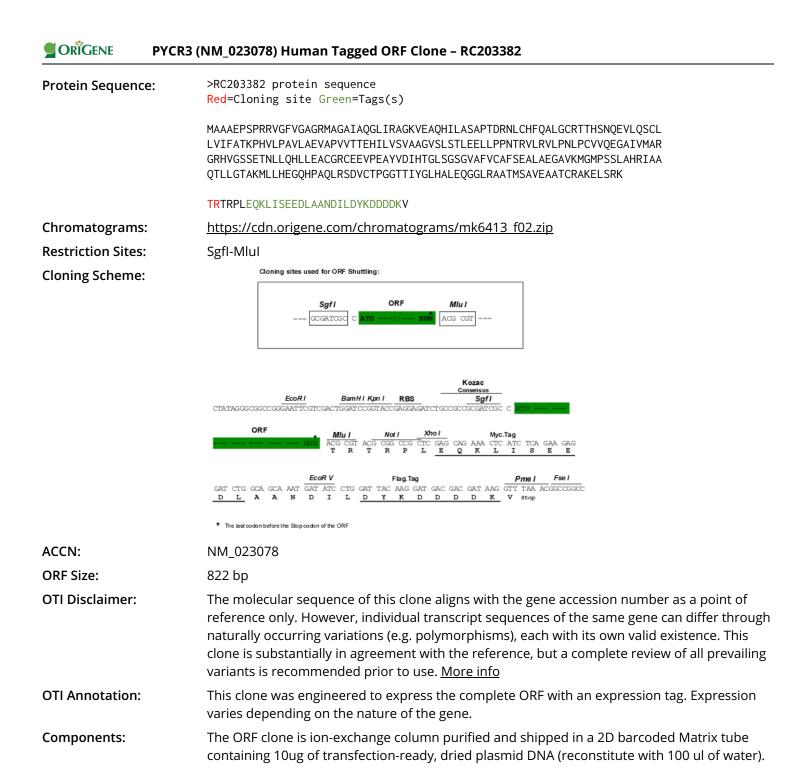
9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product Type:	Expression Plasmids
Product Name:	PYCR3 (NM_023078) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PYCR3
Synonyms:	PYCRL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>&gt;RC203382 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA



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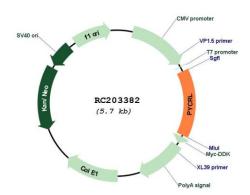


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# **PYCR3 (NM\_023078) Human Tagged ORF Clone – RC203382**

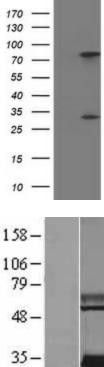
Reconstitution Method:	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
RefSeq:	<u>NM 023078.1, NP 075566.1</u>
RefSeq Size:	2678 bp
RefSeq ORF:	825 bp
Locus ID:	65263
UniProt ID:	<u>Q53H96</u>
Cytogenetics:	8q24.3
Domains:	P5CR
Protein Pathways:	Arginine and proline metabolism, Metabolic pathways
MW:	28.6 kDa
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]

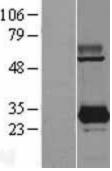
### **Product images:**

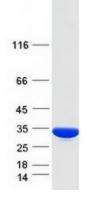


Circular map for RC203382

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HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY PYCRL (Cat# RC203382, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PYCRL(Cat# [TA502033]). Positive lysates [LY411510] (100ug) and [LC411510] (20ug) can be purchased separately from OriGene.

Western blot validation of overexpression lysate (Cat# [LY411510]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203382 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified PYCR3 protein (Cat# [TP303382]). The protein was produced from HEK293T cells transfected with PYCR3 cDNA clone (Cat# RC203382) using MegaTran 2.0 (Cat# [TT210002]).

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