

## Product datasheet for **SC303850**

### **PYCR1 (NM\_006907) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PYCR1 (NM_006907) Human Untagged Clone
Tag:	Tag Free
Symbol:	PYCR1
Synonyms:	ARCL2B; ARCL3B; P5C; P5CR; PIG45; PP222; PRO3; PYCR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC303850 representing NM_006907. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGAGCGTGGGCTTCATCGGCGCTGCCAGCTGGCTTTTGCCCTGGCCAAGGGCTTCACAGCAGCAGGC
GTCTTGGTGCCCAAGATAATGGCTAGCTCCCCAGACATGGACCTGGCCACAGTTTCTGCTCTCAGG
AAGATGGGGTGAAGTTGACACCCACAACAAGGAGACGGTGCAGCACAGTGATGTGCTTCTCTGGCT
GTGAAGCCACACATCATCCCCTTACCTGGATGAAATAGGCGCCGACATTGAGGACAGACATTGTG
GTGTCTCGCGCGCCGGCGTCACCATCAGCTCCATTGAGAAGAAGCTGTCAGCGTTTCGGCCAGCCCC
AGGTCATCCGCTGCATGACCAACTCCAGTCGTGGTGCAGGAGGGGGCCACCGTGTATGCCACAGGC
ACGCACGCCAGGTGGAGACGGGAGGCTCATGGAGCAGCTGCTGAGCAGCGTGGGCTTCTGCACGGAG
GTGGAAGAGGACCTGATTGATGCCGTACAGGGGCTCAGTGGCAGCGGCCCGCCTACGCATTACAGCC
CTGGATGCCCTGGCTGATGGGGGTGTAAGATGGGACTTCCAAGGCGCCTGGCAGTCCGCTCGGGGCC
CAGGCCCTCTGGGGGCTGCCAAGATGTGCTGCACTCAGAACAGCACCCAGGCCAGCTCAAGGACAAC
GTCAGTCTCTGGTGGGGCCACCATCCATGCCTTGCATGTGCTGGAGAGTGGGGGCTCCGCTCCCTG
CTCATCAACGCTGTGGAGGCTCCTGCATCCGCACACGGGAGCTGCAGTCCATGGCTGACCAGGACAG
GTGTCAACAGCCCATCAAGAAGACCATCCTGGACAAGTGAAGCTGGACTCCCTGCAGGACCCTG
CTGTCCCTTCTGGCCACCAAGCTGCTCCCCGAGCCTGGCCCCAGCGGGCAAGGAT TGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_006907
Insert Size:	960 bp



<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_006907.3</a>
<b>RefSeq Size:</b>	2233 bp
<b>RefSeq ORF:</b>	960 bp
<b>Locus ID:</b>	5831
<b>UniProt ID:</b>	<a href="#">P32322</a>
<b>Cytogenetics:</b>	17q25.3
<b>Protein Pathways:</b>	Arginine and proline metabolism, Metabolic pathways
<b>MW:</b>	33.4 kDa
<b>Gene Summary:</b>	<p>This gene encodes an enzyme that catalyzes the NAD(P)H-dependent conversion of pyrroline-5-carboxylate to proline. This enzyme may also play a physiologic role in the generation of NADP(+) in some cell types. The protein forms a homopolymer and localizes to the mitochondrion. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]</p> <p>Transcript Variant: This variant (1) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant 5. The encoded isoform (1) has a distinct N-terminus and is shorter than isoform 5. Variants 1 and 4 encode the same protein.</p>