

Product datasheet for **SC335114**

PYCR1 (NM_001282279) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PYCR1 (NM_001282279) 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:	>NCBI ORF sequence for NM_001282279, the custom clone sequence may differ by one or more nucleotides

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ATGAGCGTGGGCTTCATCGGCGCTGGCCAGCTGGCTTTT GCCCTGGCCAAGGGCTTCACAGCAGCAGGCG  
TCTTGGCTGCCACAAGATAATGGCTAGCTCCCCAGACATGGACCTGGCCACAGTTTCTGCTCTCAGGAA  
GATGGGGGTGAAGTTGACACCCCAACAAGGAGACGGTGCAGCACAGTGATGTGCTCTTCTGGCTGTG  
AAGCCACACATCATCCCCTTCATCTGGATGAAATAGGCGCCGACATTGAGGACAGACACATTGTGGTGT  
CCTGCGCGCGGGCGTCACCATCAGCTCCATTGAGAAGAAGCTGTCAGCGTTTCGGCCAGCCCCAGGGT  
CATCCGCTGCATGACCAACTCCAGTCGTGGTGCAGGAGGGGGCCACCGTGTATGCCACAGGCACGCAC  
GCCAGGTGGAGGACGGGAGGCTCATGGAGCAGCTGCTGAGCAGCGTGGGCTTCTGCACGGAGGTGGAAG  
AGGACCTGATTGATGCCGTACGGGGCTCAGTGGCAGCGCCCCGCTACGGGGCTGCCAAGATGCTGCT  
GCACTCAGAACAGCACCCAGGCCAGCTCAAGGACAACGTCAGCTCTCTGGTGGGGCCACCATCCATGCC  
TTGCATGTGCTGGAGAGTGGGGGCTTCCGCTCCCTGCTCATCAACGCTGTGGAGGCTCCTGCATCCGCA  
CAGGGGAGCTGCAGTCCATGGCTGACCAGGAGCAGGTGTCACCAGCCGCCATCAAGAAGACCATCCTGGA  
CAAGGTGAAGCTGGACTCCCCTGCAGGGACCGCTCTGTCGCCTTCTGGCCACACCAAGCTGCTCCCCGC  
AGCCTGGCCCCAGCGGGCAAGGATGA
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001282279
OTI Disclaimer:	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).



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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:	<u>NM_001282279.1, NP_001269208.1</u>
RefSeq Size:	1811 bp
RefSeq ORF:	867 bp
Locus ID:	5831
Cytogenetics:	17q25.3
Protein Pathways:	Arginine and proline metabolism, Metabolic pathways
Gene Summary:	<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 (3) contains an alternate exon in the 5' UTR, lacks a portion of the 5' coding region and an alternate exon, and initiates translation at an alternate start codon, compared to variant 5. The encoded isoform (3) is shorter than isoform 5.</p>