

Product datasheet for SC312931

PYCR1 (NM_153824) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PYCR1 (NM_153824) 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:	>SC312931 representing NM_153824. Blue=Insert sequence Red=Cloning site Green=Tag(s)

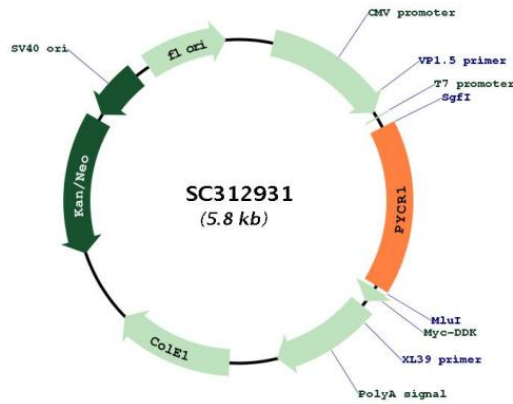
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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAGCGTGGGCTTCATCGGCGCTGGCCAGCTGGCTTTTGGCCAGGGCTTCACAGCAGCAGGC
GTCTTGGCTGCCACAAGATAATGGCTAGCTCCCCAGACATGGACCTGGCCACAGTTTCTGCTCTCAGG
AAGATGGGGTGAAGTTGACACCCACAACAAGGAGACGGTGCAGCACAGTGATGTGCTTCTCTGGCT
GTGAAGCCACACATCATCCCTTCATCCTGGATGAAATAGGCGCCGACATTGAGGACAGACATTGTG
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GTGAAGAGGACCTGATTGATGCCGTACGCGGGCTCAGTGGCAGCGGCCCGCCTACGCATTACAGCC
CTGGATGCCCTGGCTGATGGGGGTGTAAGATGGGACTTCCAAGGCGCCTGGCAGTCCGCTCGGGGCC
CAGGCCCTCCTGGGGGCTGCCAAGATGTGCTGCACTCAGAACAGCACCCAGGCCAGCTCAAGGACAAC
GTCAGCTCTCCTGGTGGGGCCACCATCCATGCCTTGCATGTGCTGGAGAGTGGGGGCTTCCGCTCCCTG
CTCATCAACGCTGTGGAGGCTCCTGCATCCGCACACGGGAGCTGCAGTCCATGGCTGACCAGGAGCAG
GTGTACCAGCCGCCATCAAGAAGACCATCCTGGACAAGGACCACCTTCTCTAGAGCTCGGGAGCCCC
GAGGGTCTTACCACCTCCTACTCCAGTATCAGCTGGCAGGGCTCCTTCCGATGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:



ACCN: NM_153824

Insert Size: 951 bp

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).

OTI Annotation: 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.

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_153824.2](#)

RefSeq Size: 1890 bp

RefSeq ORF: 951 bp

Locus ID:	5831
UniProt ID:	P32322
Cytogenetics:	17q25.3
Domains:	P5CR
Protein Pathways:	Arginine and proline metabolism, Metabolic pathways
MW:	33.3 kDa
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 (2) has multiple differences, compared to variant 5. These differences result in a distinct 5' UTR and cause translation initiation at a downstream start codon, compared to variant 5. The encoded isoform (2) is shorter than isoform 5.</p>