

Product datasheet for SC335510

PYCR1 (NM_001282281) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PYCR1 (NM_001282281) 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:	>SC335510 representing NM_001282281. Blue=Insert sequence Red=Cloning site Green=Tag(s)

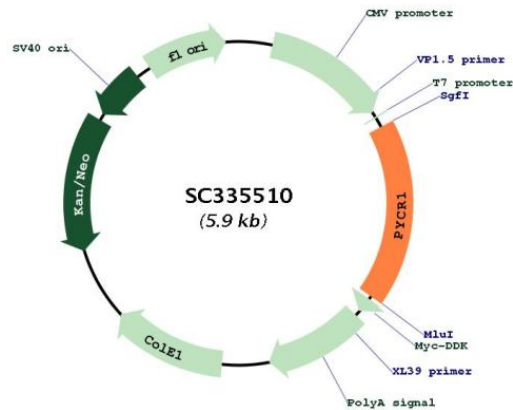
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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGGTGGGCGCGGTCGCCGGTGGGGCGCGACGACCGGTGCCATCTGTGGGGCTTTGGGCCAGGGG
TCTCCGGACAGCATGAGCGTGGGCTTTCATCGCGCTGGCCAGCTGGCTTTTGCCCTGGCCAAGGGCTTC
ACAGCAGCAGGCGTCTTGGCTGCCACAAGATAATGGCTAGCTCCCAGACATGGACCTGGCCACAGTT
TCTGCTCTCAGGAAGATGGGGTGAAGTTGACACCCACAACAAGGAGACGGTGCAGCACAGTGATGTG
CTCTTCTGGCTGTGAAGCCACACATCATCCCTTCATCCTGGATGAAATAGGCGCCGACATTGAGGAC
AGACACATTGTGGTGTCTGCGCGGCCGGCTCACCATCAGCTCCATTGAGAAGAAGCTGTCAGCGTTT
CGGCCAGCCCCAGGGTCATCCGCTGCATGACCAACTCCAGTCGTGGTGCGGGAGGGGCCACCGTG
TATGCCACAGGCACGCACGCCAGGTGGAGGACGGGAGGCTCATGGAGCAGCTGCTGAGCAGCGTGGGC
TTCTGCACGGAGGTGGAAGAGGACCTGATTGATGCCGTACGGGGCTCAGTGGCAGCGGCCCCGCCTAC
GCATTCACAGCCCTGGATGCCCTGGCTGATGGGGTGTGAAGATGGGACTTCCAAGGCGCCTGGCAGTC
CGCCTCGGGGCCAGGCCCTCCTGGGGCTGCCAAGATGCTGCTGCACTCAGAACAGCACCCAGGCCAG
CTCAAGGACAACGTCAGCTCTCCTGGTGGGGCCACCATCCATGCCTTGCATGTGCTGGAGAGTGGGGC
TTCCGCTCCCTGCTCATCAACGCTGTGGAGGCCCTCCTGCATCCGCACACGGGAGCTGCAGTCCATGGCT
GACCAGGACAGGTGTACCAGCCGCATCAAGAAGACCATCCTGGACAAGGTGAAGCTGGACTCCCCT
GCAGGGACCGCTCTGTCGCTTCTGGCCACACCAAGCTGCTCCCCGCAGCCTGGCCCCAGCGGGCAAG
GATTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:



ACCN: NM_001282281

Insert Size: 1041 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).

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_001282281.1](#)

RefSeq Size: 1897 bp

RefSeq ORF: 1041 bp

Locus ID: 5831

UniProt ID: [P32322](#)

Cytogenetics: 17q25.3

Protein Pathways: Arginine and proline metabolism, Metabolic pathways

MW: 36 kDa

Gene Summary: 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]
Transcript Variant: This variant (5) encodes the longest isoform (5).