

Product datasheet for **SC126267**

PYCR1 (BC022244) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PYCR1 (BC022244) Human Untagged Clone
Tag:	Tag Free
Symbol:	PYCR1
Synonyms:	P5C; P5CR; P5C reductase; PIG45; PP222; proliferation-inducing protein 45; PYCR; pyrroline-5-carboxylate reductase 1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene sequence for BC022244 edited
 GCCCTGGCCAAGGGCTTCACAGCAGCAGGCGTCTTGGCTGCCACAAGATAATGGCTAGC
 TCCCCAGACATGGACCTGGCCACAGTTTCTGCTCTCAGGAAGATGGGGGTGAAGTTGACA
 CCCCACAACAAGGAGACGGTGCAGCACAGTGATGTGCTTCTCTGGTGTGAAGCCACAC
 ATCATCCCCTTCATCCTGGATGAAATAGGCGCCGACATTGAGGACAGACACATTGTGGTG
 TCCTGCGGGCCGGCGTACCATCAGCTCCATTGAGAAGAAGCTGCAGCGTTTCGGCCA
 GCCCCAGGGTCATCCGCTGCATGACCAACACTCCAGTCGTGGTGCGGGAGGGGCCACC
 GTGTATGCCACAGGCACGCACGCCAGGTGGAGGACGGGAGGCTCATGGAGCAGCTGCTG
 AGCAGCGTGGGCTTCTGCACGGAGGTGGAAGAGGACCTGATTGATGCCGTACGGGGCTC
 AGTGGCAGCGCCCCGCCTACGCATTACAGCCCTGGATGCCCTGGTGTGGGGGTGTG
 AAGATGGGACTTCCAAGGCGCTGGCAGTCCGCCTCGGGGCCAGGCCCTCTGGGGCT
 GCCAAGATGCTGCTGCACTCAGAACAGCACCCAGGCCAGCTCAAGGACAACGTCAGCTCT
 CCTGGTGGGGCCACCATCCATGCCTTGCATGTGCTGGAGAGTGGGGGCTCCGCTCCCTG
 CTCATCAACGCTGTGGAGGCTCCTGCATCCGCACACGGGAGCTGCAGTCCATGGCTGAC
 CAGGAGCAGGTGTACCAGCCGCATCAAGAAGACCATCCTGGACAAGGTGAAGTGGAC
 TCCCCTGCAGGGACCGCTCTGTGCCTTCTGGCCACACCAAGCTGCTCCCCCGCAGCCTG
 GCCCAGCGGGCAAGGATTGACACGTCCTGCCTGACCACCATCCTGCCACCACCTTCTCT
 TCTTTGTCACTAGGGGGACTAGGGGGTCCCCAAAGTGGCCCACTTTCTGTGGCTCTGAT
 CAGCGCAGGGGCCAGCCAGGGACATAGCCAGGGAGGGGCCACATCACTTCCCCTGGAAA
 TCTCTGTGGTCTGCAAGTGTCTCCAGCCAGAACAGGGGTGGATTCCCCAACCTCAACC
 TCCTTTCTTCTGCTCCCAAACCATGTGAGGACACCTTCTCTAGAGCTCGGGAGCCC
 GGAGGGTCTTACCCACTCCTACTCCAGTATCAGCTGGCAGGGCTCCTTCTGAGAGCA
 AAGGTCAAGGACCCCTCTGTGAAGGCTCAGCAGAGGTGGATCCACGCCCCCTCCCGG
 CCCTCCCTGCCCTCCATTCAGGGAGAAACCTCTCCTTCCCGTGTGAGAAGGGCCAGAGG
 GTCCAGGCATCCCAAGTCCAGCGTGAAGGGCCACAGCCCTTGGCTGCCAAGCACGCA
 GATCCCATGGACATTTGGGGAAAGGGCTCCTTGGGCTGCTGGTGAACCTTGTGGCCACC
 ACCTCCTGCTCCTGACCTCCCTGGGAGGGTGTATCAGTTCTGTCTGCCACATGAGGAGGGAGG
 CCCTGCCTGTGTGGGAGGGTGGTACTGTGGGTGGAATAGTGGAGGCCTTCAACTGATTA
 GACAAGGCCCGCCACATCTTGGAGGCATCTGCCTTACTGATTAATAATGTCAATGTAAT
 CTAATAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: BC022244

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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: [BC022244.1](#), [AAH22244.1](#)

RefSeq Size: 1757 bp

Locus ID: 5831

Cytogenetics: 17q25.3

Protein Pathways: Arginine and proline metabolism, Metabolic pathways

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]