

Product datasheet for **SC327776**

PYCR3 (NM_023078) Human Untagged Clone

Product data:

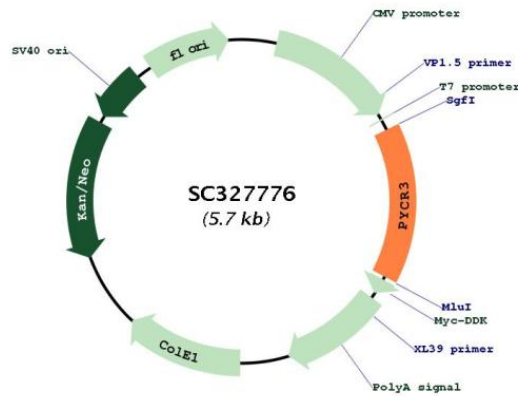
| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | PYCR3 (NM_023078) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | PYCR3 |
| Synonyms: | PYCR1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Fully Sequenced ORF: | >SC327776 representing NM_023078. Blue=Insert sequence Red=Cloning site Green=Tag(s) |

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGGGCGGTGAGCGCAGCGGCGTCCGAGGCAACAAGATGGCAGCTGCGGAGCCGCTCCGCGGCGCGTG
GGCTTCGTGGGCGCGGGCCGCATGGCGGGGCCATCGCGCAGGGCCTCATCAGAGCAGGAAAAGTGGAA
GCTCAGCACATACTGGCCAGTGCACCAACAGACAGGAACCTATGTCACCTTCAAGCTCTGGGTTGCCGG
ACCACGCACTCCAACCAGGAGGTGCTGCAGAGCTGCCTGCTCGTCATCTTCCACCAAGCCTCATGTG
CTGCCAGCTGTCCTGGCAGAGGTGGCTCCTGTGGTCACCACTGAACACATCTTGGTGTCCGTGGCTGCT
GGGGTGTCTCTGAGCACCTGGAGGAGTGTGCCCCAAACACACGGGTGCTGCGGGTCTTGCCCAAC
CTGCCCTGTGTGGTCCAGGAAGGGGCCATAGTGATGGCGCGGGGCCGCCACGTGGGGAGCAGCGAGACC
AAGCTCCTGCAGCATCTGCTGGAGGCTGTGGCGGTGTGAGGAGTGCCTGAAGCCTACGTCGACATC
CACACTGGCCTCAGTGGCAGTGGCGTGGCCTTCGTGTGTGCATTCTCCGAGGCCCTGGCTGAAGGAGCC
GTCAAGATGGGCATGCCAGCAGCCTGGCCACC GCATCGCTGCCAGACCCTGTGGGGACGGCCAAG
ATGCTGCTGCACGAGGGCCAACCCAGCCAGCTGCGCTCAGACGTGTGCACCCCGGTGGCACCACC
ATCTATGGACTCCACGCCCTGGAGCAGGGCGGGTGCAGCAGCCACCATGAGCGCCGTGGAGGCTGCC
ACCTGCCGGCCAAGGAGCTCAGCAGAAAGTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites: SgfI-MluI



Plasmid Map:



ACCN: NM_023078

Insert Size: 861 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_023078.3](#)

RefSeq Size: 2678 bp

RefSeq ORF: 861 bp

| | |
|--------------------------|---|
| Locus ID: | 65263 |
| UniProt ID: | Q53H96 |
| Cytogenetics: | 8q24.3 |
| Domains: | P5CR |
| Protein Pathways: | Arginine and proline metabolism, Metabolic pathways |
| MW: | 29.9 kDa |

Gene Summary: This gene encodes a protein that belongs to the pyrroline-5-carboxylate reductase family of enzymes. Members of this family catalyze the final step in proline biosynthesis, converting pyrroline-5-carboxylate to proline. Glutamate and ornithine are precursors in the synthesis of proline. The protein encoded by this gene is a cytoplasmic enzyme involved in the biosynthesis of proline from ornithine. [provided by RefSeq, Aug 2016]

Transcript Variant: This variant (1) encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments. CCDS Note: The coding region has been updated to shorten the N-terminus to one that is more supported by conservation.