

Product datasheet for SC115284

PYCR2 (NM_013328) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PYCR2 (NM_013328) Human Untagged Clone
Tag:	Tag Free
Symbol:	PYCR2
Synonyms:	HLD10; P5CR2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115284 sequence for NM_013328 edited (data generated by NextGen Sequencing)

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ATGAGCGTGGGCTTCATCGGGGCCGCCAGCTGGCCTATGCTCTGGCGGGGCTTCACG
GCCGCAGGCATCCTGTGCGCTCACAAAGATAATAGCCAGCTCCCCAGAAATGAACCTGCC
ACGGTGTCCGCGCTCAGGAAGATGGGTGTGAACCTGACACGCAGCAACAAGGAGACGGTG
AAGCACAGCGACGTCCTGTTTCTGGCTGTGAAGCCACATATCATCCCCTTCATCCTGGAT
GAGATTGGGGCCGACGTGCAAGCCAGACACATCGTGGTCTCCTGTGCGGCTGGTGTACC
ATCAGCTCTGTGGAGAAGAAGCTGATGGCATTCCAGCCAGCCCCAAAGTGATTCGCTGC
ATGACCAACACACCTGTGGTAGTGCAGGAAGGCGCTACAGTGTACGCCACGGGCACCCAT
GCCCTGGTGGAGGATGGGCAGCTCCTGGAGCAGCTCATGAGCAGCGTGGGCTTCTGCACT
GAGGTGGAAGAGGACCTCATCGATGCCGTACGGGGCTCAGTGGCAGCGGGCCTGCCTAT
GCATTCATGGCTCTGGACGATTGGCTGATGGTGGGGTGAAGATGGGTTTGCCACGGCGC
CTGGCAATCCAATCGGGGCCAGGCTTTGCTGGGAGCTGCCAAGATGCTGCTGGACTCG
GAGCAGCATCCATGCCAGCTTAAGGACAATGTCTGCTCCCCTGGGGGAGCCACCATCCAC
GCCCTGCACTTTCTAGAGAGTGGGGGCTCCGCTCTCTGCTCATCAATGCAGTTGAGGCC
TCCTGTATCCGAACACGAGAGCTACAGTCCATGGCCGACCAAGAAAAGATCTCCCCAGCT
GCCCTTAAGAAGACCCTTTAGACAGAGTGAAGCTGGAATCCCCACAGTCTCCACACTG
ACCCCCTCCAGCCAGGGAAGCTCCTACAAGAAGCCTGGCCCTGGGAGGCAAGAAGGAC
TAA

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Clone variation with respect to NM_013328.2



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_013328 unedited
 NTGTCAGAATTTTGGTATACGACTCACTTATAGGGCGGCCGGAATCGGCACCAGGCCGC
 CCGGGAGATATCCGCCGGGGGAGAATAGGGTTGCACCATCCCAGAAGCTGCCGTTAGCTC
 GCCGGTCTCGGCACGCCGCCGTTTCGCCCTGCGCTGTCCGCTTTCCCTAGCGTTAC
 TTCGGTCCCTCGCTGAGGGGTTCCGTGCGGCTCCCAGGAGCGTGAACCGCGGACCAT
 GAGCGTGGGCTTCATCGGGGCCGCCAGCTGGCCTATGCTCTGGCGGGGCTTCACGGC
 CGCAGGCATCCTGTGCGCTCACAAGATAATAGCCAGCTCCCAGAAATGAACCTGCCAC
 GGTGTCCGCGCTCAGGAAGATGGGTGTGAACCTGACACGCAACAAGGAGACGGTGAA
 GCACAGCGACGTCTGTTTCTGGCTGTGAAGCCACATATCATCCCCTTCATCCTGGATGA
 GATTGGGGCCGACGTGCAAGCCAGACACATCGTGGTCTCCTGTGCGGCTGGTGTACCAT
 CAGCTCTGTGGAGAAGAAGCTGATGGCATTCCAGCCAGCCCCAAAGTGATTCGTCGAT
 GACCAACACACCTGTGGTAGTGCAGGAAGGCGCTACAGTGTACGCCACGGGCACCCATGC
 CCTGGTGGAGGATGGGCAGCTCCTGGAGCAGCTCATGAGCAGCGTGGGCTTCTGCACTGA
 GGTGGAAGAGGACCTCATCGATGCCGTCACGGNGCTCAGTGGCAGCGGGCTGCCTATGC
 ATTCATGGCTCTGGACGCATNGGCTGATGGTGGGGTGAAGAAGGGGGTTGCCACCGGCC
 CTGCCATCCAACCTCGNGGCCAGCTTTGCTGGNAGCTGCNCAGATGCTGCTGGACTCGN
 AGCAGCATCCATGCCAGCTTAAGNACATGTCTGCTCCCCTGGGGGAGCCACCATCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_013328 unedited
 CGCGGCCCAATCTAGAGTCGAGTTNTNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAT
 AAACCTTATTAAGCAGTTAACTTAGCATTAAATAAACTCTTAAATGGTACACCTAT
 GAAGCAAGAGTTAAATATAAAACCCAGTCTAATCCTGTACACTTGGGATTAATTGGGACAA
 TCTTAAGTTGCTCACTTCTTTCCATTTACCAATTCAGAGAAAGCCGTTTCTGTTTTTC
 TCCTCACCACTTTGCCTTGGCATCACACCAACCCTGCCTCGGGCTTCAGCTGCAGATCCT
 CCCAGCCCTCCTCCCAGCTGGGCTGACTCCAGTCCCAGCCCCAGTCTCCACCAACTGA
 GCAGCGTACGCAGGGTTGTGTCTGGCTTCCAGCATCTACCACCCCTTCAGAGCAACTTCC
 AACATGGGACAGGAGAGGAAGCTCGCATTGCTTGGTCTGAACAGATTTAAGGAGGTTTTA
 TCACAAGGACCTGAAAATTCCTAAGCATGCTTTTCTCCTTGCACAGCTGAGGAGGGGCA
 ATGGTGGGAGCGGGCAGGGGGTGGCAGGGCGGCAGGGGCTCTCAACTAAGGGCTCTG
 AATACAGAGGGGACAGATGCTGGCTTAATCCTTTTTGCCTCCAGGGCCAGGCTTCTTGGG
 AGGAGCTTCTGGGCTGGAGGGCCACTGTGAAAATGGGGGATTCACCTTACTCTGCC
 AAGAGGGTTTTTTAGGGGCAATGGGGAACCTTTTTTGGCCCCCTGGACTGTTACTCTC
 TTGTTTCGATACCGAGAGCCCCACTCCTTTGTAACAAGACGGAACCCCCACTTTTTAA
 AAGGGCGGGCGGGCATGTGGGCTCCCCGGGGACCCACCTTCGCCTAACCCCTGCTAGG
 ATGTGCCACCACCACACTACTCTTTGGAGTCTCTCCATAAACCCGCCCCCTTCTTC
 GCTCCATTTCCCTGCCCCCTTTTTCCCTACTTTTCAACCCCA

Restriction Sites:

NotI-NotI

ACCN:

NM_013328

Insert Size:

1750 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_013328.2](#), [NP_037460.2](#)

RefSeq Size: 1708 bp

RefSeq ORF: 963 bp

Locus ID: 29920

UniProt ID: [Q96C36](#)

Cytogenetics: 1q42.12

Domains: P5CR

Protein Pathways: Arginine and proline metabolism, Metabolic pathways

Gene Summary: This gene belongs to the pyrroline-5-carboxylate reductase family. The encoded mitochondrial protein catalyzes the conversion of pyrroline-5-carboxylate to proline, which is the last step in proline biosynthesis. Alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Nov 2012]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).