

Product datasheet for **SC322308**

PYCR2 (NM_013328) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | PYCR2 (NM_013328) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | PYCR2 |
| Synonyms: | HLD10; P5CR2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC (PS100020) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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| | |
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| Fully Sequenced ORF: | <p>>OriGene sequence for SC322308</p> <pre> GAATAGGGTTGCACCATCCCAGAAGCTGCTGTTAGCTCGCCGGTCTCGGCACGCCGCC GTTTCGCCCTGCGCTGTCCGCCCTCCCTAGCGTTACTTCCGGTCCCTCGCTGAGGGGG TTCGTGCGGCTCCCAGGAGGCGTGAACCGCGGACCATGAGCGTGGGCTTCATCGGGGCCG GCCAGCTGGCCTATGCTCTGGCGCGGGGCTTACGGCCGACGGCATCCTGTCGGCTCACA AGATAATAGCCAGCTCCCAGAAATGAACCTGCCACGGTGTCCGCGCTCAGGAAGATGG GTGTGAACCTGACACGCAGCAACAAGGAGACGGTGAAGCACAGCGACGTCCTGTTCTGG CTGTGAAGCCACATATCATCCCCTTCATCCTGGATGAGATTGGGGCCGAGGTGCAAGCCA GACACATCGTGGTCTCCTGTGCGGCTGGTGTACCATCAGCTCTGTGGAGAAGAAGCTGA TGGCATTCCAGCCAGCCCCAAAGTGATTGCTGCATGACCAACACACCTGTGGTAGTGC AGGAAGGCGTACAGTGTACGCCACGGGCACCCATGCCCTGGTGGAGGATGGGCAGCTCC TGGAGCAGCTCATGAGCAGCGTGGGCTTCTGCACTGAGGTGGAAGAGGACCTCATCGATG CCGTACGGGGCTCAGTGGCAGCGGGCTGCCTATGCATTATGGCTCTGGACGCATTGG CTGATGGTGGGGTGAAGATGGGTTTGCCACGGCGCTGGCAATCCAACCTGGGGCCAGG CTTTGCTGGGAGCTGCCAAGATGCTGCTGGACTCGGAGCAGCATCCATGCCAGCTTAAGG ACAATGTCTGCTCCCCTGGGGGAGCCACCATCCACGCCCTGCACTTTCTAGAGAGTGGGG GCTTCCGCTCTCTGCTCATCAATGCAGTTGAGGCTCCTGTATCCGAACACGAGAGCTAC AGTCCATGGCCGACCAAGAAAAGATCTCCCAGCTGCCCTTAAGAAGACCCTCTTAGACA GAGTGAAGCTGGAATCCCCACAGTCTCCACACTGACCCCTCCAGCCCAGGGAAGCTCC TCACAAGAAGCCTGGCCCTGGGAGGCAAGAAGGACTAAGGCAGCATCTGTCCCCTCTGTG ATTGAGAGCCCTTAGTTGAGAGCCCTGCCGCCCTGCCACCCCTGCCCGCTCCCAC CATTGCCCTCCTCAGCTGTGCAAGGAGAAAGCATGCTTAGGAAGTTTTAGGTCCTTGT GATAAAACCTCCTAAATCTGTTGCAAGCAAGCAATGCGAGCTTCTCTCTGTCCCATG TTGGAAGTTGCTCTGAAGGGGTGGTAGATGCTGGAAGCCAGACACAACCCCTGCGTACGCT GCTCAGTTGGTGGAGACTGGGGCTGGGACTGGAGTCAGCCAGCTGGGAGGAGGGGCTGG GGAGGATCTGCAGCTGAAGCCCGAGGCAGGGTTGGTGTGATGCCAAGGCAAAGTGGTGG GAGAAAACAGGAAACGGGCTTTCTGAAATTGGTAAATGGGAAAGAAGTGAACAATTAA GATTGTCAACAATTAACAAGTGTACAGGATTAGACTGGGTTTATATTTAACTTTGCT TCATAGGTGTACCATTTAAAGAGTGTATTTAATGCTAAGTTAACTGCTTTAATAAAGT TTATTTTAAATAAAAAAAAAAAAAAAAAA </pre> |
| Restriction Sites: | Please inquire |
| ACCN: | NM_013328 |
| 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_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).