

## Product datasheet for MR204385

### Pycr1 (NM\_144795) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pycr1 (NM_144795) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pycr1
Synonyms:	P5CR 1; P5CR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204385 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGAGCGTAGGCTTCATCGGGCAGGGCAGCTAGCCTTTGCTCTAGCCAAGGGCTTCACAGCTGCAGGTGTTCTGGCTGCACACAAGATAATGGCCAGCTCCCCAGACATGGACCAAGCTACGGTCTCGGCCCTCCGGAA GATAGGGGTGAACCTGACACCCCAACAAGAGACTGTGCGCCACAGTGATGTGCTTCTCTGGCTGTG AAGCCACACATCATCCCCTTCATCCTGGATGAAATTGGGGCGAACATTGAGGACAGGCACATTGTGGTGT CTTGTGCGGCAGGGGTCAACATCACTCCATCGAAAAGAAGCTGACAGCGTTCCAACCTGCCCCAAAGT CATCCGATGTATGACTAACACCCCGTCTGGTACGGGAGGGGGTCACTGTGTATGCCACAGGACTCAC GCTCAGGTGGAAGATGGCAGGCTTGTGGAGCAGCTCATGGGCAGCGTGGGCTTCTGCACAGAGGTGGAGG AAGATCTGATCGATGCTGTACAGGGCTCAGTGGCAGCGGCCCTGCCTATGCTTTCACAGCCCTGGATGC TCTGGCTGACGGTGGTGTGAAAATGGGGCTTCCAGACGCCTGGCAGTCCGCCTCGGGGCCAGGCCCTC CTGGGGCAGCCAAGATGCTACTAGACTCAGAACAGCATCCCAGCCAGCTCAAGGATAATGTCTGCTCTC CGGGTGGGGCCACCATCCATGCCTTGCATGTGCTGGAGAGCGGGGGCTTTCGCTCCTTGCCTATCAACGC TGTGGAAGCCTCCTGCATCCGTACACGGGAGCTGCAGACCATGGCTGACCAGGAGACCATCTCTCTGCT GCCATAAAGAAGACTGTACTGGATAAGGTGAAGCTGGACTCCTCTGCTGGGCCTCTCTGTCTTCTGACC ATGTCAAGCCACTGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204385 protein sequence  
Red=Cloning site Green=Tags(s)

MSVGFIGAGQLAFALAKGFTAAGVLA AHKIMASSPMDQATVSALRKIGVNLTPHNKETVRHSDVLF LAV  
 KPHIIPFILDEIGANIEDRHIVVSCAAGVTINSIEKKL TAFQPAPKVIRCMTNTPVVVREGVTVYATGTH  
 AQVEDGRLVEQLMGSVGFCTEVEEDLIDAVTGLSGSGPAYAFTALDALADGGVKMGLPRRLAVRLGAQAL  
 LGAAKMLLDSEQHPSQLKDNVCSPPGATIHALHVLESGGFRSLLINAVEASCIRTRELQTMADQETISPA  
 AIKKTVLDKVKLDSSAGASLSSDHVKPLP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_144795

**ORF Size:** 930 bp

**OTI Disclaimer:** 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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_144795.3](#)

**RefSeq Size:** 2914 bp

**RefSeq ORF:** 930 bp

**Locus ID:** 209027

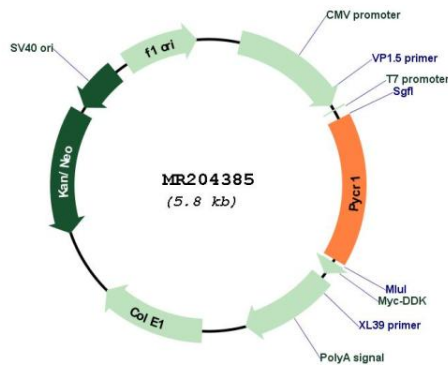
**UniProt ID:** [Q922W5](#)

**Cytogenetics:** 11 E2

**MW:** 32.4 kDa

**Gene Summary:** Housekeeping enzyme that catalyzes the last step in proline biosynthesis. Can utilize both NAD and NADP, but has higher affinity for NAD. Involved in the cellular response to oxidative stress.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR204385