

## Product datasheet for RN214930

### Pycr2 (NM\_001012208) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pycr2 (NM\_001012208) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Pycr2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN214930 representing NM\_001012208  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGGATCGCC

ATGAGCGTGGGTTTCATCGGCGCGGGCCAGCTGGCCTGTGCTCTGGCGCGGGGCTTCACGGCCGCGGGCG  
 TCCTGTCGGCTACAAGATAATAGCCAGCTCCCCGAAATGGACCTGCCACGGTGTCTGCGCTCAGGAA  
 GATGGGTGTAATCTGACCCGAAGCAATAAGGACACGGTGCGGCACAGTGACGTCCTGTTCTCTGGCTGTG  
 AAGCCCCACATCATCCCCTTCATCCTGGATGAGATCGGGGCTGACGTGCAGGAGAGGCACATCGTGGTCT  
 CCTGTGCGGCTGGCGTACCATCAGTTCTGTGGAGAAGAAGCTGATGGCTTTCAGCCAGCCCCAAAGT  
 GATCCGCTGCATGACCAACACGCCTGTGGTGGTCCGAGAGGGGCCACTGTGTACGCCACAGGCACCCAT  
 GCTCTGGTGGAAAGATGGGAAGCTTCTGGAGCAGCTGATGAGCAGTGTGGGCTTCTGCACAGAGTGGAGG  
 AAGACCTATTGATGCTATCACAGGGCTCAGCGGCAGCGGGCCCGCTACGCGTTTATGGCCCTGGATGC  
 GCTGGCAGACGGCGGGTGAAGATGGGCGTGCCGCGGCCTGGCAGTCCGACTGGGAGCTCAGGCGTTG  
 CTGGGAGCAGCTAAGATGCTGCTGGATTGAGAGACCACCCGGCCAGCTCAAGGACAACGTCGTCTCCC  
 CTGGGGGGCCACCATCCATGCCCTGCACTTCTGGAGAGTGGGGGCTTCGCTCTCTGCTCATCAATGC  
 AGTTGAGGCCTCCTGTATTGAAACAAGAGAGCTGACGTCATGGCTGACCAAGAAAAGGTGTCCCCTGCC  
 GCCCTTAAGAAGACCCTCCTGGACAGAGTGAAGCTGGAGTCAACCACGGTGTCCACGCTGGCCCCACCCA  
 GCTCAGGGAAACTCCTTACAAGAAACCTGCCAGGGAAGCAAGAGGGAGTGA

AGCGGACCGACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-RsrII  
**ACCN:** NM\_001012208  
**Insert Size:** 963 bp



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<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001012208.1</a></u> , <u><a href="#">NP_001012208.1</a></u>
<b>RefSeq Size:</b>	1582 bp
<b>RefSeq ORF:</b>	963 bp
<b>Locus ID:</b>	364064
<b>UniProt ID:</b>	<u><a href="#">Q6AY23</a></u>
<b>Cytogenetics:</b>	13q26
<b>Gene Summary:</b>	Housekeeping enzyme that catalyzes the last step in proline biosynthesis. In some cell types, such as erythrocytes, its primary function may be the generation of NADP(+). Can utilize both NAD and NADP. Has higher affinity for NADP, but higher catalytic efficiency with NADH (By similarity). Involved in cellular response to oxidative stress (By similarity).[UniProtKB/Swiss-Prot Function]