

## Product datasheet for **RN212963**

### **Pycr3 (NM\_001011993) Rat Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pycr3 (NM\_001011993) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Pycr3  
**Synonyms:** Pycrl  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN212963 representing NM\_001011993  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCGGATGAGATGTCTGAACCTGGCGTGTGGGCTTCGTAGGTGCTGGTGCATGGCGGAAGCCATTG  
CCCAAGGCCTCATCCGAGCAGGCAAAGTAGAAGCAAAGCAAGTGCTGGCCAGTGCACCAACAGACAAGAA  
CCTCTGCCACTCAGGGCTCTGGGTTGCCAGACTACTCACTCCAACCACGAGGTGCTGAAAAGTCCCA  
CTCGTCATCTTTGCCACCAAAACCCCAAGTCTGCCAGCTGTTCTGGCAGAAGTGGCCCTGTAGTACCA  
CTGAGCACATCATTGTATCCGTGGCTGTGGGATCTCTCTGAGCTCTATGGAGGAGCTGTTACCCCCGAA  
AACACGAGTACTGCGAGTCTCTCCCAATCTACCCTGCGTAGTTCAGGAGGGAGCTATGGTTATGACACGG  
GGCCACCATGCTGGGAATGAAGACGCCAAGCTCTACAGAACTTGCTGGAAGCCTGTGGGAGTGCATAG  
AGGTTCTGAGTCTACGTCGATATCCACTGGCCTCAGCGGCAGTGGTGTGGCCTTTGTGTACATT  
TTCGGAGGCCCTGGTGAAGGCGCCATCAAGATGGGCATGCCAGTGACCTGGCCACCGCATTGCCGCT  
CAGACCTGCTGGGACAGCCAAAATGCTGCAGCAGGAAGGAAGCACCCAGCCAGCTGGGACGGATG  
TGCTCACACCAGCTGGAACCACCATCCACGGGCTTCATGCCCTAGAGCAGGGCGGTTTTTCGAGCAGCTGC  
CATGAGTGCTGTGAAGCAGCTACCTGCCGGGCTAAAGAGCTCAGCAAGAAG**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001011993  
**Insert Size:** 825 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_001011993.1</a></u> , <u><a href="#">NP_001011993.1</a></u>
<b>RefSeq Size:</b>	1489 bp
<b>RefSeq ORF:</b>	825 bp
<b>Locus ID:</b>	300035
<b>UniProt ID:</b>	<u><a href="#">Q5PQJ6</a></u>
<b>Cytogenetics:</b>	7q34
<b>Gene Summary:</b>	Enzyme that catalyzes the last step in proline biosynthesis. Proline is synthesized from either glutamate or ornithine; both are converted to pyrroline-5-carboxylate (P5C), and then to proline via pyrroline-5-carboxylate reductases (PYCRs). PYCRL is exclusively linked to the conversion of ornithine to proline.[UniProtKB/Swiss-Prot Function]