

Product datasheet for **RR214930**

Pycr2 (NM_001012208) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pycr2 (NM_001012208) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Pycr2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR214930 representing NM_001012208
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGCGTGGGTTTCATCGGCGCGGGCCAGCTGGCCTGTGCTCTGGCGCGGGGCTTCACGGCCGCGGGCG
TCCTGTCGGCTCACAAGATAATAGCCAGCTCCCCGAAATGGACCTGCCACGGTGTCTGCGCTCAGGAA
GATGGGTGTGAATCTGACCCGAAGCAATAAGGACACGGTGCGGCACAGTGACGTCCTGTTCTGCTGGTGTG
AAGCCCCACATCATCCCCTTCATCCTGGATGAGATCGGGGCTGACGTGCAGGAGAGGCACATCGTGGTCT
CCTGTGCGGCTGGCGTACCATCAGTTCTGTGGAGAAGAAGCTGATGGCTTTCAGCCAGCCCCAAAGT
GATCCGCTGCATGACCAACACGCCTGTGGTGGTCCGAGAGGGGGCCACTGTGTACGCCACAGGCACCCAT
GCTCTGGTGGAAAGATGGGAAGCTTCTGGAGCAGCTGATGAGCAGTGTGGGCTTCTGCACAGAGGTGGAGG
AAGACCTATTGATGCTATCACAGGGCTCAGCGGCAGCGGGCCCGCTACGCGTTTATGGCCCTGGATGC
GCTGGCAGACGGCGGGTGAAGATGGGCGTGCCGCGGCCTGGCAGTCCGACTGGGAGCTCAGGCGTTG
CTGGGAGCAGCTAAGATGCTGCTGGATTGAGAGACCACCCGGCCAGCTCAAGGACAACGTCCTGCTCCC
CTGGGGGGGCCACCATCCATGCCCTGCACTTCTGGAGAGTGGGGGCTTCGCTCTCTGCTCATCAATGC
AGTTGAGGCCTCCTGTATTGAAACAAGAGAGCTGCAAGTCCATGGCTGACCAAGAAAAGGTGTCCCCTGCC
GCCCTTAAGAAGACCCTCCTGGACAGAGTGAAGCTGGAGTCAACCACGGTGTCCACGCTGGCCCCACCCA
GCTCAGGGAAACTCCTTACAAGAAACCTGCCAGGGAAGCAAGAGGGAG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

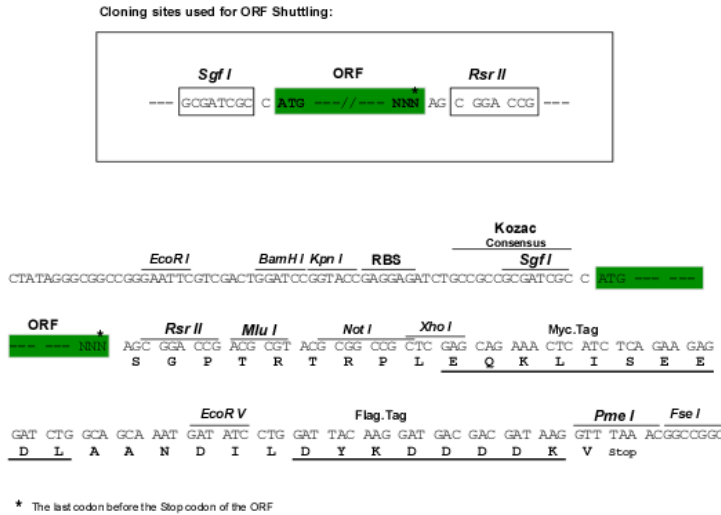
Protein Sequence: >RR214930 representing NM_001012208
 Red=Cloning site Green=Tags(s)

MSVGFIGAGQLACALARGFTAAGVLSAHKIIASSPEMDLPTVSALRKMGNLTRSNKDTVRHSDVLFLAV
 KPHIIPFILDEIGADVQERHIVVSCAAGVTISSVEKKLMAFQPAPKVIRCMTNTPVVVREGATVYATGTH
 ALVEDGKLLLEQLMSSVGFCTEVEEDLIDAITGLSGSGPAYAFMALDALADGGVKMGVPRRLAVRLGAQAL
 LGAAKMLLDSEDPGQLKDNVCSPPGGATIHAFHLESGGFRSLLINAVEASCIRTRELQSMADQEKVSPA
 ALKKTLLDRVKLESPTVSTLAPPSSGKLLTRNPAQGSKRE

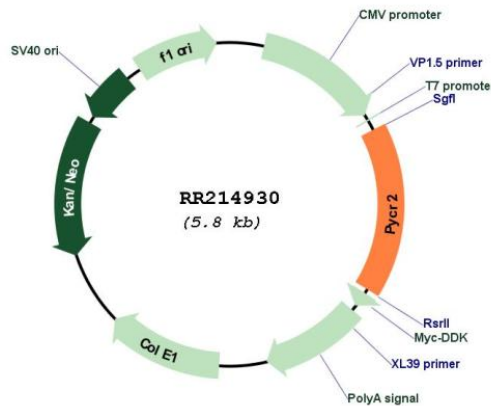
SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN: NM_001012208

ORF Size:	960 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:	<ol style="list-style-type: none">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_001012208.1 , NP_001012208.1
RefSeq Size:	1582 bp
RefSeq ORF:	963 bp
Locus ID:	364064
UniProt ID:	Q6AY23
Cytogenetics:	13q26
MW:	33.7 kDa
Gene Summary:	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]