

Product datasheet for **RG210027**

PYCR1 (NM_006907) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PYCR1 (NM_006907) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PYCR1
Synonyms:	ARCL2B; ARCL3B; P5C; P5CR; PIG45; PP222; PRO3; PYCR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210027 representing NM_006907 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCGTGGGCTTCATCGGCGCTGGCCAGCTGGCTTTTGGCCCTGGCCAAGGGCTTCACAGCAGCAGGGC
TCTTGGCTGCCACAAGATAATGGCTAGCTCCCCAGACATGGACCTGGCCACAGTTTCTGCTCTCAGGAA
GATGGGGGTGAAGTTGACACCCCAACAAGGAGACGGTGCAGCACAGTGATGTGCTCTTCTGGCTGTG
AAGCCACACATCATCCCCTTCATCCTGGATGAAATAGGCGCCGACATTGAGGACAGACACATTGTGGTGT
CCTGCGCGCCGGCGTCACCATCAGCTCCATTGAGAAGAAGCTGTCAGCGTTTCGGCCAGCCCCAGGGT
CATCCGCTGCATGACCAACTCCAGTCGTGGTGCGGGAGGGGGCCACCGTGTATGCCACAGGCACGCAC
GCCAGGTGGAGGACGGGAGGCTCATGGAGCAGCTGCTGAGCAGCGTGGGCTTCTGCACGGAGGTGGAAG
AGGACCTGATTGATGCCGTACGGGGCTCAGTGGCAGCGGCCCGCTACGCATTCACAGCCCTGGATGC
CCTGGCTGATGGGGGTGAAGATGGGACTTCCAAGGCGCTGGCAGTCCGCCTCGGGGCCAGGCCCTC
CTGGGGCTGCCAAGATGCTGCTGCACTCAGAACAGCACCCAGGCCAGCTCAAGGACAACGTGAGCTCTC
CTGGTGGGGCCACCATCCATGCCTTGCATGTGCTGGAGAGTGGGGCTTCCGCTCCCTGCTCATCAACGC
TGTGGAGGCTCCTGCATCCGCACACGGGAGCTGCAGTCCATGGCTGACCAGGAGCAGGTGTCACCAGCC
GCCATCAAGAAGACCATCCTGGACAAGGTGAAGCTGGACTCCCCGAGGACCGCTCTGTCGCCTTCTG
GCCACACCAAGCTGCTCCCCGCAGCCTGGCCCCAGCGGCAAGGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210027 representing NM_006907
Red=Cloning site Green=Tags(s)

MSVGFIGAGQLAFALAKGFTAAGVLAHAKIMASSPMDLATVSALRKMVGKLTPHNKETVQHSVDLFLAV
 KPHIIPFILDEIGADIEDRHIVVSCAAGVTISSIEKKLSAFRPAPRVIRCMTNTPVVVREGATVYATGTH
 AQVEDGRLEQLLSSVGFCTEVEEDLIDAVTGLSGSGPAYAFTALDALADGGVKMGLPRRLAVRLGAQAL
 LGAAKMLLHSEQHPGQLKDNVSSPGGATIHAIHVLESGGFRSLLINAVEASCIRTRELQSMADQEQVSPA
 AIKKTILDVKVLDSPAGTALSPSGHTKLLPRSLAPAGKD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006907

ORF Size: 957 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_006907.3](#), [NP_008838.2](#)

RefSeq Size: 2059 bp

RefSeq ORF: 960 bp

Locus ID: 5831

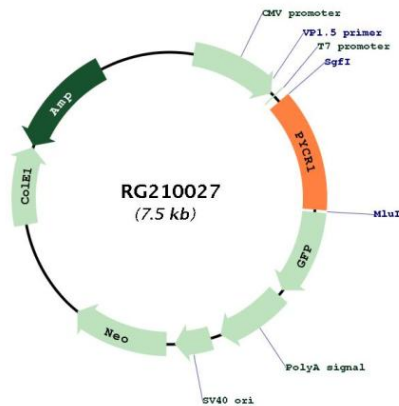
UniProt ID: [P32322](#)

Cytogenetics: 17q25.3

Protein Pathways: Arginine and proline metabolism, Metabolic pathways

Gene Summary: This gene encodes an enzyme that catalyzes the NAD(P)H-dependent conversion of pyrroline-5-carboxylate to proline. This enzyme may also play a physiologic role in the generation of NADP(+) in some cell types. The protein forms a homopolymer and localizes to the mitochondrion. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]

Product images:



Circular map for RG210027