

Product datasheet for RC237417

PYCR1 (NM_001282280) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PYCR1 (NM_001282280) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PYCR1
Synonyms:	ARCL2B; ARCL3B; P5C; P5CR; PIG45; PP222; PRO3; PYCR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC237417 representing NM_001282280 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGAGCGTGGGCTTCATCGGCGCTGGCCAGCTGGCTTTTGGCCCTGGCCAAGGGCTTCACAGCAGCAGGGC
TCTTGGCTGCCACAAGATAATGGCTAGCTCCCCAGACATGGACCTGGCCACAGTTTCTGCTCTCAGGAA
GATGGGGGTGAAGTTGACACCCCAACAAGGAGACGGTGCAGCACAGTGATGTGCTCTTCTGGCTGTG
AAGCCACACATCATCCCCTTCATCCTGGATGAAATAGGCGCCGACATTGAGGACAGACACATTGTGGTGT
CCTGCGCGGCCGGCGTCACCATCAGCTCCATTGAGAAGAAGCTGTCAGCGTTTCGGCCAGCCCCAGGGT
CATCCGCTGCATGACCAACTCCAGTCGTGGTGCGGGAGGGGGCCACCGTGTATGCCACAGGCACGCAC
GCCAGGTGGAGGACGGGAGGCTCATGGAGCAGCTGCTGAGCAGCGTGGGCTTCTGCACGGAGGTGGAAG
AGGACCTGATTGATGCCGTACGGGGCTCAGTGGCAGCGGCCCGCTACGCATTCACAGCCCTGGATGC
CCTGGCTGATGGGGGTGAAGATGGGACTTCCAAGGCGCTGGCAGTCCGCCTCGGGGCCAGGCCCTC
CTGGGGCTGCCAAGATGCTGCTGCACTCAGAACAGCACCCAGGCCAGCTCAAGGACAACGTCAGCTCTC
CTGGTGGGGCCACCATCCATGCCTTGCATGTGCTGGAGAGTGGGGCTTCCGCTCCCTGCTCATCAACGC
TGTGGAGGCTCCTGCATCCGCACACGGGAGCTGCAGTCCATGGCTGACCAGGAGCAGGTGTCACCAGCC
GCCATCAAGAAGACCATCCTGGACAAGGTGAAGCTGGACTCCCCGAGGACCGCTCTGTCCCTTCTG
GCCACACCAAGCTGCTCCCCGACGCTGGCCCCAGCGGCAAGGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237417 representing NM_001282280
Red=Cloning site Green=Tags(s)

MSVGFIGAGQLAFALAKGFTAAGVLAHKIMASSPMDLATVSALRKMVKLTPHNKETVQHSDVLF
 KPHIIPFILDEIGADIEDRHIVVSCAAGVTISSIEKKLSAFRPAPRVIRCMTNTPVVVREGATVYATGTH
 AQVEDGRLMEQLLSSVGFCTEVEEDLIDAVTGLSGSGPAYAFTALDALADGGVKMGLPRRLAVRLGAQAL
 LGAAKMLLHSEQHPGQLKDNVSSPGGATIHAIHVLESGGFRSLLINAVEASCIRTRELQSMADQEQVSPA
 AIKKTILDVKVLDSPAGTALSPSGHTKLLPRSLAPAGKD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg4001_c01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001282280

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_001282280.1](#), [NP_001269209.1](#)

RefSeq Size: 1904 bp

RefSeq ORF: 960 bp

Locus ID: 5831

UniProt ID: [P32322](#)

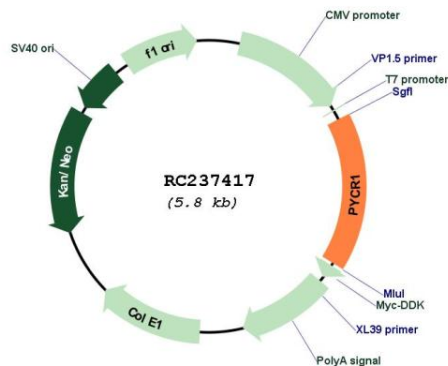
Cytogenetics: 17q25.3

Protein Pathways: Arginine and proline metabolism, Metabolic pathways

MW: 33.4 kDa

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 RC237417