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Product datasheet for RC237220

PYCR1 (NM_001282279) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PYCR1 (NM_001282279) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PYCR1
Synonyms:	ARCL2B; ARCL3B; P5C; P5CR; PIG45; PP222; PRO3; PYCR
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237220 representing NM_001282279 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGAGCGTGGGCTTCATCGGCGCTGGCCAGCTGGCTTTTGCCCTGGCCAAGGGCTTCACAGCAGCAGGCG TCTTGGCTGCCCACAAGATAATGGCTAGCTCCCCAGACATGGACCTGGCCACAGTTTCTGCTCTCAGGAA GATGGGGGTGAAGTTGACACCCCACAACAAGGAGACGGTGCAGCACAGTGATGTGCTCTTCCTGGCTGTG AAGCCACACATCATCCCCTTCATCCTGGATGAAATAGGCGCCGACATTGAGGACAGACACATTGTGGTGT CCTGCGCGGCCGGCGTCACCATCAGCTCCATTGAGAAGAAGCTGTCAGCGTTTCGGCCAGCCCCCAGGGT CATCCGCTGCATGACCAACACTCCAGTCGTGGTGCGGGAGGGGGCCACCGTGTATGCCACAGGCACGCAC GCCCAGGTGGAGGACGGGAGGCTCATGGAGCAGCTGCTGAGCAGCGTGGGCTTCTGCACGGAGGTGGAAG AGGACCTGATTGATGCCGTCACGGGGCTCAGTGGCAGCGGCCCCGCCTACGGGGCTGCCAAGATGCTGCT GCACTCAGAACAGCACCCAGGCCAGCTCAAGGACAACGTCAGCTCTCCTGGTGGGGCCACCATCCATGCC TTGCATGTGCTGGAGAGTGGGGGCTTCCGCTCCCTGCTCATCAACGCTGTGGAGGCCTCCTGCATCCGCA CACGGGAGCTGCAGTCCATGGCTGACCAGGAGCAGGTGTCACCAGCCGCCATCAAGAAGACCATCCTGGA CAAGGTGAAGCTGGACTCCCCTGCAGGGACCGCTCTGTCGCCTTCTGGCCACACCAAGCTGCTCCCCCGC AGCCTGGCCCCAGCGGGCAAGGAT ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

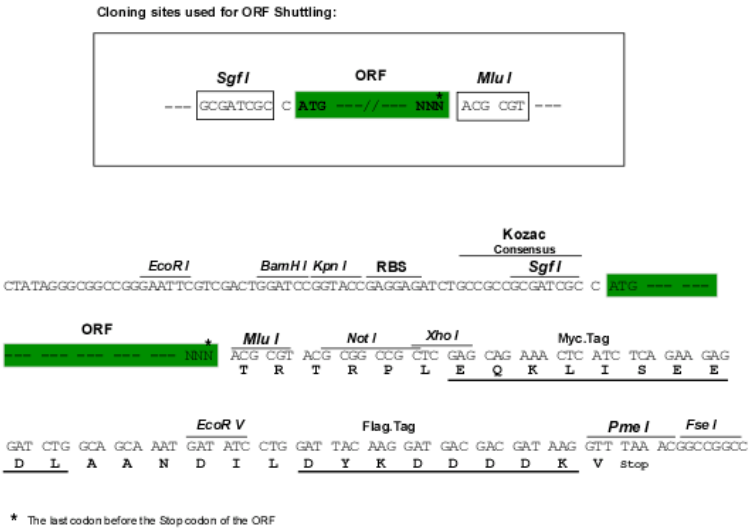
>RC237220 representing NM_001282279
Red=Cloning site Green=Tags(s)

MSVGFIGAGQLAFALAKGFTAAGVLAAHKIMASSPDMDLATVSALRKMGVKLTPHNKETVQHSDVLFLAV
KPHIIPFILDEIGADIEDRHIVVSCAAGVTISSIEKKLSAFRPAPRVIRCMTNTPVVVREGATVYATGTH
AQVEDGRLMEQLLSSVGFCTEVEEDLIDAVTGLSGSGPAYGAAKMLLHSEQHPGQLKDNVSSPGGATIHA
LHVLESGGFRSLLINAVEASCIRTRELQSMADQEQVSPAAIKKTILDKVKLDSPAGTALSPSGHTKLLPR
SLAPAGKD

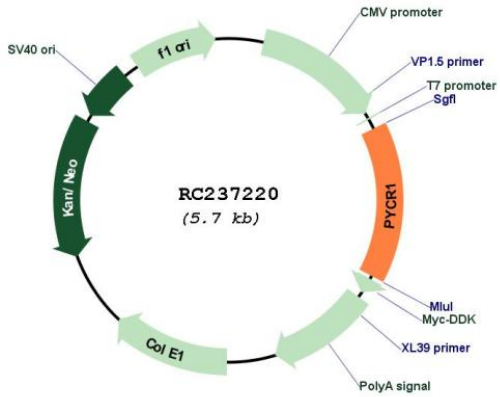
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001282279

ORF Size: 864 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_001282279.1, NP_001269208.1
RefSeq Size:	1811 bp
RefSeq ORF:	867 bp
Locus ID:	5831
Cytogenetics:	17q25.3
Protein Pathways:	Arginine and proline metabolism, Metabolic pathways
MW:	30.7 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]