

## Product datasheet for TP310027

### PYCR1 (NM\_006907) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human pyrroline-5-carboxylate reductase 1 (PYCR1), transcript variant 1, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC210027 representing NM_006907 Red=Cloning site Green=Tags(s)

MSVGFIGAGQLAFALAKGFTAAGVLAHAKIMASSPDMDLATVSALRKMVGKLTTPHNKETVQHSDVLFVAV  
KPHIIPFILDEIGADIEDRHIVSACAAGVTISSIEKKLSAFRPPAPRVIRCMTNTPVWVREGATVYATGTH  
AQVEDGRLMEQLLSSVGFCTEVEEDLIDAVTGLSGSGPAYAFTALDALADGGVKMGLPRRLAVRLGAQAL  
LGAAMLLHSEQHPGQLKDNVSSPGGATIHAIHVLESGGFRSLLINAVEASCIRTRELQSMADQEQVSPA  
AIKKTILDVKVLDSPAGTALSPSGHTKLLPRSLAPAGKD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	33.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_008838</a>
Locus ID:	5831



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UniProt ID: [P32322](#), [A0A024R8U9](#), [Q8TBX0](#)

RefSeq Size: 2059

Cytogenetics: 17q25.3

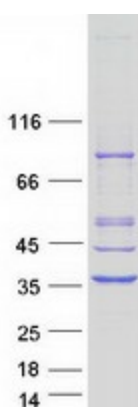
RefSeq ORF: 957

Synonyms: ARCL2B; ARCL3B; P5C; P5CR; PIG45; PP222; PRO3; PYCR

**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]

**Protein Pathways:** Arginine and proline metabolism, Metabolic pathways

### Product images:



Coomassie blue staining of purified PYCR1 protein (Cat# TP310027). The protein was produced from HEK293T cells transfected with PYCR1 cDNA clone (Cat# [RC210027]) using MegaTran 2.0 (Cat# [TT210002]).