

## Product datasheet for PH316359

### PYCR1 (NM\_153824) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	PYCR1 MS Standard C13 and N15-labeled recombinant protein (NP_722546)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC216359
Predicted MW:	33.2 kDa
Protein Sequence:	>RC216359 representing NM_153824 Red=Cloning site Green=Tags(s)  MSVGFIGAGQLAFALAKGFTAAGVLAAHKIMASSPMDLATVSALRKMGVKLTPHNKETVQHSVDLFLAV KPHIIPFILDEIGADIEDRHIVVSCAAGVTISSIEKKLSAFRPAPRVIRCMTNTPVVVREGATVYATGTH AQVEDGRLMEQLSSVGFCTEVEEDLIDAVTGLSGSGPAYAFTALDALADGGVKMGLPRRLAVRLGAQAL LGAAMLLHSEQHPGQLKDNVSSPGGATIHVLESGGFRSLLINAVEASCIRTRELQSMADQEQVSPA AIKKTILDKDHLPLELGSPEGLHPLLLQYQLARAPS  TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u><a href="#">NP_722546</a></u>
RefSeq Size:	1768
RefSeq ORF:	948
Synonyms:	ARCL2B; ARCL3B; P5C; P5CR; PIG45; PP222; PRO3; PYCR
Locus ID:	5831



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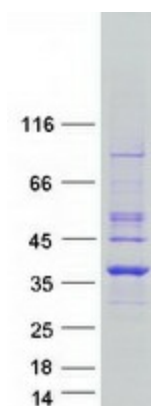
UniProt ID: [P32322](#), [Q8TBX0](#)

Cytogenetics: 17q25.3

**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# [TP316359]). The protein was produced from HEK293T cells transfected with PYCR1 cDNA clone (Cat# [RC216359]) using MegaTran 2.0 (Cat# [TT210002]).