

Product datasheet for **RG204525**

PYCR2 (NM_013328) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PYCR2 (NM_013328) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PYCR2
Synonyms:	HLD10; P5CR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204525 representing NM_013328 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCGTGGGCTTCATCGGGCCGGCCAGCTGGCCTATGCTCTGGCGGGGGCTTCACGGCCGACGGCA
TCCTGTCGGCTCACAAGATAATAGCCAGCTCCCCAGAAATGAACCTGCCACGGTGTCCGCGCTCAGGAA
GATGGGTGTGAACCTGACACGCAGCAACAAGGAGACGGTGAAGCACAGCGACGTCCTGTTTCTGGCTGTG
AAGCCACATATCATCCCCTTCATCCTGGATGAGATTGGGGCCGACGTGCAAGCCAGACACATCGTGGTCT
CCTGTGCGGCTGGTGTACCATCAGCTCTGTGGAGAAGAAGCTGATGGCATTCCAGCCAGCCCCAAAGT
GATTTCGCTGCATGACCAACACACCTGTGGTAGTGCAAGGAGCGCTACAGTGTACGCCACGGGCACCCAT
GCCCTGGTGGAGGATGGGCAGCTCCTGGAGCAGCTCATGAGCAGCGTGGGCTTCTGCACTGAGGTGGAAG
AGGACCTCATCGATGCCGTACGGGGCTCAGTGGCAGCGGGCCTGCCTATGCATTCATGGCTCTGGACGC
ATTGGCTGATGGTGGGTGAAGATGGGTTTGCCACGGCGCCTGGCAATCCAACCTCGGGGCCAGGCTTTG
CTGGGAGCTGCCAAGATGCTGCTGGACTCGGAGCAGCATCCATGCCAGCTTAAGGACAATGTCTGCTCCC
CTGGGGGAGCCACCATCCACGCCCTGCACTTTCTAGAGAGTGGGGGCTTCCGCTCTCTGCTCATCAATGC
AGTTGAGGCCTCCTGTATCCGAACACGAGAGCTACAGTCCATGGCCGACCAAGAAAAGATCTCCCCAGCT
GCCCTTAAGAAGACCCTTTAGACAGAGTGAAGCTGGAATCCCCACAGTCTCCACTGACCCCCCTCCA
GCCAGGAAGCTCCTACAAGAAGCCTGGCCCTGGGAGGCAAGAAGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204525 representing NM_013328
Red=Cloning site Green=Tags(s)

MSVGFIGAGQLAYALARGFTAAGILSAHKIIASSPEMNLPTVSALRKMGNLTRSNKETVKHSDVFLAV
 KPHIIPFILDEIGADVQARHIVVSCAAGVTISSVEKKLMAFQPAPKVIRCMNTNPVVVQEGATVYATGTH
 ALVEDGQLEQLMSSVGFCTEVEEDLIDAVTGLSGSGPAYAFMALDALADGGVKMGLPRRLAIQLGAQAL
 LGAAKMLLDSEQHPCQLKDNVCSPPGGATIHAIHFLESGGFRSLLINAVEASCIRTRELQSMADQEKISPA
 ALKKTLLDRVKLESPTVSTLTPSSPGKLLTRSLALGGKDD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_013328

ORF Size: 960 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_013328.4](#)

RefSeq Size: 1708 bp

RefSeq ORF: 963 bp

Locus ID: 29920

UniProt ID: [Q96C36](#)

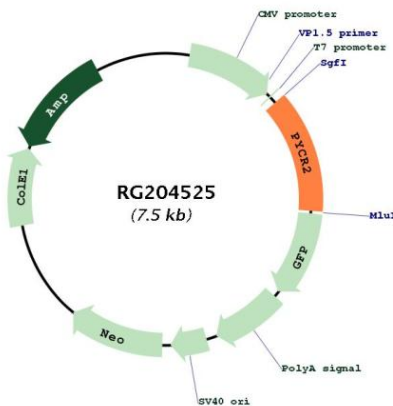
Cytogenetics: 1q42.12

Domains: P5CR

Protein Pathways: Arginine and proline metabolism, Metabolic pathways

Gene Summary: This gene belongs to the pyrroline-5-carboxylate reductase family. The encoded mitochondrial protein catalyzes the conversion of pyrroline-5-carboxylate to proline, which is the last step in proline biosynthesis. Alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Nov 2012]

Product images:



Circular map for RG204525