

Product datasheet for **MG204385**

Pycr1 (NM_144795) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pycr1 (NM_144795) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pycr1
Synonyms:	P5CR 1; P5CR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204385 representing NM_144795 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCGTAGGCTTCATCGGGCAGGGCAGCTAGCCTTTGCTCTAGCCAAGGGCTTCACAGCTGCAGGTG
TTCTGGCTGCACACAAGATAATGGCCAGCTCCCCAGACATGGACCAAGCTACGGTCTCGGCCCTCCGGAA
GATAGGGGTGAACCTGACACCCCAACAAGAGACTGTGCGCCACAGTGATGTGCTTCTCTGGCTGTG
AAGCCACACATCATCCCCTTCATCCTGGATGAAATTGGGGCGAACATTGAGGACAGGCACATTGTGGTGT
CTTGTGCGGCAGGGGTCAACATCACTCCATCGAAAAGAAGCTGACAGCGTTCCAACCTGCCCCAAAGT
CATCCGATGTATGACTAACACCCCGTCTGGTACGGGAGGGGGTCACTGTGTATGCCACAGGACTCAC
GCTCAGGTGGAAGATGGCAGGCTTGTGGAGCAGCTCATGGGCAGCGTGGGCTTCTGCACAGAGGTGGAGG
AAGATCTGATCGATGCTGTACAGGGCTCAGTGGCAGCGGCCCTGCCTATGCTTTCACAGCCCTGGATGC
TCTGGCTGACGGTGGTGTGAAAATGGGGCTTCCAGACGCCTGGCAGTCCGCCTCGGGGCCAGGCCCTC
CTGGGGCAGCCAAGATGCTACTAGACTCAGAACAGCATCCAGCCAGCTCAAGGATAATGTCTGCTCTC
CGGGTGGGGCCACCATCCATGCCTTGCATGTGCTGGAGAGCGGGGGCTTTCGCTCCTTGCCTATCAACGC
TGTGGAAGCCTCCTGCATCCGTACACGGGAGCTGCAGACCATGGCTGACCAGGAGACCATCTCTCTGCT
GCCATAAAGAAGACTGTACTGGATAAGGTGAAGCTGGACTCCTCTGCTGGGGCTCTCTGTCTTCTGACC
ATGTCAAGCCACTGCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204385 representing NM_144795
 Red=Cloning site Green=Tags(s)

MSVGFIGAGQLAFALAKGFTAAGVLAAHKIMASSPMDQATVSALRKIGVNLTPHNKETVRHSDVLF
 KPHIIPFILDEIGANIEDRHIVVSCAAGVTINSIEKKLTAFQAPKVIKRCMTNTPVVVREGVTVYATGTH
 AQVEDGRLVEQLMGVSVGFCTEVEEDLIDAVTGLSGSGPAYAFTALDALADGGVKMGLPRRLAVRLGAQAL
 LGAAKMLLDSEQHPSQLKDNVCSPPGATIHALHVLESGGFRSLLINAVEASCIRTRELQTMADQETISPA
 AIKKTVLDKVKLDSSAGASLSSDHVKPLP

TRTRPLE - GFP Tag - V

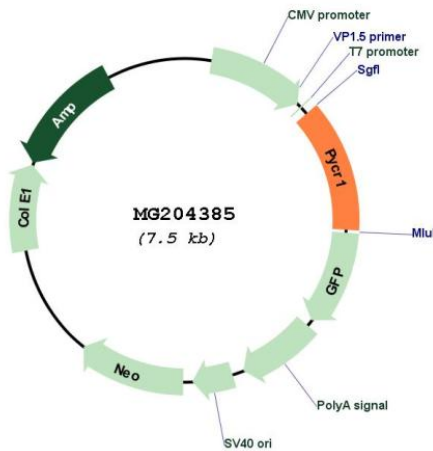
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_144795

ORF Size: 927 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:	<ol style="list-style-type: none">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_144795.3
RefSeq Size:	2915 bp
RefSeq ORF:	930 bp
Locus ID:	209027
UniProt ID:	Q922W5
Cytogenetics:	11 E2
Gene Summary:	Housekeeping enzyme that catalyzes the last step in proline biosynthesis. Can utilize both NAD and NADP, but has higher affinity for NAD. Involved in the cellular response to oxidative stress.[UniProtKB/Swiss-Prot Function]