

Product datasheet for **RG208722**

PCYOX1 (NM_016297) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCYOX1 (NM_016297) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PCYOX1
Synonyms:	PCL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG208722 representing NM_016297
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCGCGTCGTCGCGGAGCTTGTCTCCTCGTCTGCGGGTTGTGGCTGTTGCTGTGCAGCTGCGGAT
 GCCCCGAGGGCGCCGAGCTGCGTCTCCGCCAGATAAAATCGCGATTATTGGAGCCGGAATTGGTGGCAC
 TTCAGCAGCCTATTACCTGCGGCAGAAATTTGGGAAAGATGTGAAGATAGACCTGTTTGAAGAGAGAAG
 GTCGGGGGCCGCTGGCTACCATGATGGTGCAGGGCAAGAATACGAGGCAGGAGTTCTGTCATCCATC
 CTTTAAATCTGCACATGAAACGTTTTGTCAAAGACCTGGGTCTCTCTGCTGTTCCAGGCCTCTGGTGGCT
 ACTGGGGATATAATGGAGAGACTCTGGTATTTGAGGAGAGCAACTGGTTCATAATTAACGTGATTA
 TTAGTTTGGCGCTATGGATTTCAATCCCTCCGTATGCACATGTGGGTAGAGGACGTGTAGACAAGTTCA
 TGAGGATCTACCGCTACCACTCATGACTATGCCTTCAGTAGTGTGAAAAATTAACCTCATGCTTAGG
 AGGAGATGACTTCTTGGATGCTTAATCGAACACTTCTTGAAACCTTGAAAAGCCGGCTTTTCTGAG
 AAGTTCCTCAATGAAATGATTGCTCCTGTTATGAGGGTCAATTATGGCCAAAGCAGGACATCAATGCCT
 TTGTGGGGCGGTGTCACCTGTCCTGTTCTGATTCTGGCCTTTGGGCAAGTGAAGGTGGCAATAAACTTGT
 TTGCTCAGGGCTTCTGCAGGCATCCAAAAGCAATCTTATATCTGGCTCAGTAATGTACATCGAGGAGAAA
 ACAAAGACCAAGTACACAGGAAATCCAAACAAAGATGATGAAGTGGTCTACCAAATTTGAACTGAGACTC
 GTTCAGACTTCTATGACATCGTCTTGGTGGCCACTCCGTTGAATCGAAAAATGTCGAATATTACTTTTCT
 CAACTTTGATCCTCCAATTGAGGAATCCATCAATATTATCAACATATAGTGACAACCTTTAGTTAAGGGG
 GAATTTGAATACATCTATCTTTAGCTCTAGACCCATAGATAAAATTTGGCCTTAATACAGTTTTAACCACTG
 ATAATTCAGATTTGTTTCAATACAGTATTGGGATTGTGCCCTCTGTGAGAGAAAAGCAAGTCTGAGACT
 ATCAACAGATGGAACATATGTTTGGGAAGATCTTTTCCCAAGAACTCTTACTAAAGCACAAATTTTAAAG
 CTCTTTCTGTCCTATGATTATGCTGTGAAGAAGCCATGGCTTGCATATCCTCACTATAAGCCCCGGAGA
 AATGCCCTCTATCATTCTCCATGATCGACTTTATTACCTCAATGGCATAGAGTGTGCAGCAAGTCCCAT
 GGAGATGAGTGCATTGCAGCCACAACGCTGCACTCCTTGCTATCACCCTGGAACGGGCACACAGAC
 ATGATTGATCAGGATGGCTTATATGAGAACTTAAACTGAACTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG208722 representing NM_016297
 Red=Cloning site Green=Tags(s)

MGRVVAELVSSLLGLWLLLCSCGPEGAELRAPDKIAIIGAGIGGTSAAYYLRQKFGKDVKIDLFEREE
 VGGRLATMMVQGEYEAGGSVIHPLNLHMKRFVKDLGLSAVQASGGLLGIYNGETLVFEESNWFIIINVIK
 LVWRYGFQSLRMHMWVEDVLDKFMRIYRYQSHDYAFSSVEKLLHALGGDDFLGMLNRTLLETLELQKAGFSE
 KFLNEMIAPVMRVNYGQSTDINAFVAVSLSCSDSGLWAVEGKNLVCSSLLQASKSNLISGSVMYIEEK
 TKTKYTGNTKMYEVVYQIGTETRSDFYDIVLVATPLNRKMSNITFLNFDPPIEEFHQYQHIIVTTLVKG
 ELNTSIFSSRPIDKFGLNTVLTDDNSDLFINSIGIVPSVREKEDPEPSTDGTYVWKIFSQETLTKAQILK
 LFLSYDYAVKKPWLAYPHYKPEKCPSEIILHDRLYYLNGIECAASAMEMSAIAAHNAALLAYHRWNGHTD
 MIDQDGLYEKLKTEL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_016297

ORF Size: 1515 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_016297.2](#), [NP_057381.2](#)

RefSeq Size: 4226 bp

RefSeq ORF: 1518 bp

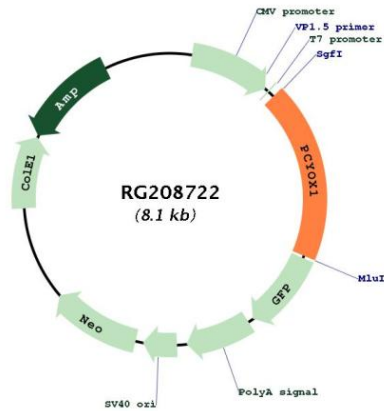
Locus ID: 51449

UniProt ID: [Q9UHG3](#)

Cytogenetics: 2p13.3

Gene Summary: Prenylcysteine is released during the degradation of prenylated proteins. PCYOX1 catalyzes the degradation of prenylcysteine to yield free cysteines and a hydrophobic isoprenoid product (Tschantz et al., 1999 [PubMed 10585463]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RG208722