

Product datasheet for **RG237948**

PMPCA (NM_001282944) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PMPCA (NM_001282944) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PMPCA
Synonyms:	Alpha-MPP; CLA1; CPD3; INPP5E; MAS2; P-55; SCAR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237948 representing NM_001282944. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGAAGCGAAATACCTTAGTGAATTGCTCACTTTTGGAAAAATTGGCATTTCGTCTACTGCTCGAT
TTGACAGCAAAGATGAAATTCGTCTACGTTGGAAAAGCATGGGGGTATCTGTGACTGCCAGACATCAA
GATGAAGAAGTCGAGATGACGCGGATGGCGGTCCAGTTTGAGCTGGAGGACCTGAACCTGCGGCCTGAC
CCAGAGCCACTTCTACCGAGATGATTCATGAAGCGGCTTACAGGGAGAACACAGTTGGCCTCCACCGT
TTCTGCCCCACAGAAAACGTAGCAAAGATCAACCGAGAGGTGCTGCATTCTACCTGAGGAACTACTAC
ACTCCCGACCGCATGGTGTGGCCGGCGTGGCGTGGAGCACGAGCATCTGGTGGACTGTGCCCGGAAG
TACCTCCTGGGGTCCAGCCGGCCTGGGGAGCGCAGAGCCCGTGATATTGACAGATCTGTGGCCAG
TACACTGGGGGATTGCCAAGCTAGAAAGAGACATGTCCAATGTCAGCCTGGGCCCGACCCCATCCCC
GAGCTCACGCACATCATGGTTGGACTGGAGAGCTGCTCCTTCTGGAGGAGGACTTCATCCCTTTGCA
GTGTTGAACATGATGATGGGCGGAGGTGGCTCCTTCTCGGCTGGTGGGCCCGCAAGGGCATGTTCTCC
AGGCTCTACCTCAACGTGCTCAACAGGCACCACTGGATGTATAACGCGACCTCCTACCACCACAGCTAC
GAGGACACTGGCTCCTTTGCATCCATGCCAGCGCCGACCAAGACAGGTTGAGAAATGGTAGAAATC
ATCACAAAGGAGTTTATTTAATGGGCGGAACCGTGGACACGGTGGAGCTGGAACGAGCCAAGACGCG
CTGACATCAATGCTCATGATGAACCTGGAATCCAGGCCTGTGATCTTCGAGGATGTGGGAGGCAGGTG
CTGGCCACTCGCTCCAGAAAGCTGCCGACGAGCTGTGCACGCTCATCCGCAACGTGAAGCCGGAAGAT
GTGAAGAGAGTCGCTTCTAAGATGCTCCGAGGGAAGCCGCGCAGTGGCCGCCCTGGGTGACCTGACTGAC
CTGCCACGATGAGCACATCCAGACCGCCTGTGAGTAAGGACGGGCGCCTGCCAGGACGTACCGG
CTCTTCCGG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237948
 Blue=ORF Red=Cloning site Green=Tag(s)

MKRNTLVELLTFWKNWHFRLLDLTAKMKFCLRWKSMGVSVTARHQDEEVEMTRMAVQFELEDLNLRPD
 PEPLLTEMIHEAAYRENTVGLHRFCPTENVAKINREVLHSYL RNYTTPDRMVLAVGVEHEHLVDCARK
 YLLGVQPAWGSAAEVDIDRSVAQYTGGIAKLERDMSNVSLGPTPIPELTHIMVGLSECSFLEEDFIPFA
 VLNMMGGGGGSF SAGGPGKGMFSRLYLNVLNRHHWYMNATSYHHSYEDTGLL CIHASADPRQVREMEI
 ITKEFILMGTVTDTVELERAKTQLT SMLMMNLESRPVIFEDVGRQVLATRSRKL PHELCTLIRNVKPED
 VKRVASKMLRGKPAVAALGDLTDLPTYEHIQTALSSKDGRLPRTYR LFR
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYP SGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001282944

ORF Size: 1182 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).

RefSeq: [NM_001282944.1](#), [NP_001269873.1](#)

RefSeq Size: 2087 bp

RefSeq ORF: 1185 bp
 Locus ID: 23203
 UniProt ID: [Q10713](#)

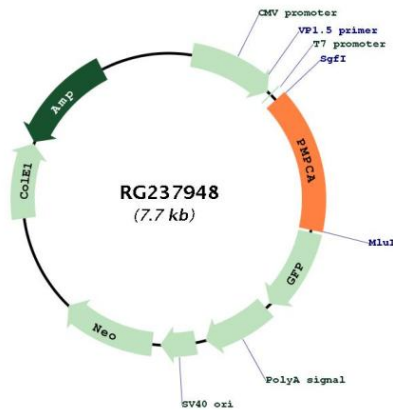
Cytogenetics: 9q34.3

Protein Families: Druggable Genome, Protease

MW: 45.3 kDa

Gene Summary: The protein encoded by this gene is found in the mitochondrion, where it represents the alpha subunit of a proteolytic heterodimer. This heterodimer is responsible for cleaving the transit peptide from nuclear-encoded mitochondrial proteins. Defects in this gene are a cause of spinocerebellar ataxia, autosomal recessive 2. [provided by RefSeq, Mar 2016]

Product images:



Circular map for RG237948