

Product datasheet for **RG217812**

PMP70 (ABCD3) (NM_002858) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PMP70 (ABCD3) (NM_002858) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PMP70
Synonyms:	ABC43; CBAS5; PMP70; PXMP1; ZWS2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG217812 representing NM_002858
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGGCCCTTCAGCAAGTACTTGACGGCGCGGAACCTCGCTGGCTGGTGCCGCGTTCCTGCTGCTCT
GCCTGCTCCACAAGCGGGCCGCCCTCGGCCTGCACGGTAAGAAAAGTGAAAAACACCATTACAGAA
CAATGAGAAAGAGGGGAAAAAGAGCGAGCTGTGGTGGACAAGGTGTTTTCTCAAGGCTCATACAGATT
CTGAAAATCATGGTCCCTAGAACATTTTGTAAAGAGACAGGTTACTTGGTACTTATTGCTGTTATGCTGG
TGTCTCGAACATATTGTGATGTTGGATGATTCAAATGGGACACTAATTGAAAGTGGTATCATTGGTGC
TAGCAGGAAAGATTTCAAGAGATACTTACTCAACTTCATCGTGCATGCCTCTTATCTCTCTGGTTAAT
AACTTCTGAAGTATGGGTTAAATGAGCTTAACTGTGCTCCGAGTAAGGCTCACTAAATACCTCTATG
AGGAGTATCTCAAGCTTCCACATATTAAAAATGGGGAATCTGGACAACAGAATAGCTAATCCAGACCA
GCTGCTTACACAAGATGTAGAAAAATTTGTAACAGTGTAGTCGATCTGTATTCAAATCTTAGTAAGCCA
TTTTTAGACATAGTTTTGTATATCTTTAAGTTAACGAGTGAATTTGGAGCTCAGGGCCCAGCGAGCATGA
TGGCCTACTTGGTTGTTCTGGGCTATTCTAACTCGACTTCAAGACCCATTGGTAAGATGACAATAAC
TGAGCAAAAGTATGAAGGAGAATATAGATATGTTAATTCTCGGCTCATCACAACAGTGAAGAAATTGCC
TTTTACAATGGGAATAAAGAGAAAAAGCAGACAGTCCACTCAGTCTCCGAAAACCTGGTGGAAACCTAC
ATAATTTCAATTTGTTTCGGTTTTCAATGGGCTTCATTGATAGTATTATTGCCAAATACCTTGCCACTGT
TGTTGGTTACCTAGTTGTGTCAGTCGCCCTTTCTTAGATTTGTCTCATCCTCGACATCTCAAGAGTACACAT
TCGGAACCTCTAGAGGATTACTACAAAGTGAAGAATGCTTTTGCGAATGTCTCAAGCTCTGGTTCGAA
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ATGTTCTTTAGCAACGCCAAATGGAGATGTTTTGATCCGAGACCTTAATTTTGAAGTTCGATCTGGGGC
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CCTTTTTTGGAGGACGTCTAACTAAACCTGAAAGAGGAAAATTATTTTATGTTCTCAGAGACCTTACA
TGACCCTTGAACACTTCGAGATCAAGTATATCCAGATGGACGAGAAGATCAGAAAAGGAAGGGAAAT
TTCTGACCTAGTACTGAAGGAATACTTAGACAATGTCCAGTTGGGTATATCCTTGAACGTGAAGGAGGC
TGGGACAGTGTTCAAGATTGGATGGACGTACTCAGTGGTGGAGAAAAGCAAAGAATGGCGATGGCAAGAT
TATTTTATCATAAACCCAGTTTGCCATTTGGATGAATGCACAAGTGCAGTTAGTGTGACGTTGGAAGG
CTACATTTATAGTCATTGTGAAAGGTTGGCATCACTCTCTTCACTGTGTCTCATAGGAAATCTCTTTGG
AAACATCATGAGTACTACCTGCATATGGATGGCAGAGGCAACTATGAATTCAAACAGATAACAGAAGATA
CAGTTGAGTTGGCTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG217812 representing NM_002858
 Red=Cloning site Green=Tags(s)

MAAFSKYLTARNSSLAGAAFLLLCLLHKRRRALGLHGKKS~~GPPLQ~~NEKEGKKERAVVDKVF~~SRLIQI~~
 LKIMVPR~~TFCKETGYLVLIAV~~MLVSRTYCDVWMIQNGTLIESGIIGRSR~~KDFKRYLLNFIAAMPLISLVN~~
 NFLKYGLNELKLCFRVRLTKYL~~YEEYLQAF~~TYKMG~~NLDNRIANPDQLLTQDVEKFCNSV~~DLYSNL~~SKP~~
 FLDIVLYIFKLTSAIGAQPASMMAYLVVSGFLFLTRLRRPIGKMTITEQKYE~~GEYRVNSRLITNSEEIA~~
 FYNGNKREKQTVHSVFRKLVEHLHNFILFRFSMGFIDSIIAKYLATVVG~~YLVVSRPFLDLSHPRHLKSTH~~
 SELLEDYYQSGRMLLRMSQALGRIVLAGREMTLAGFTARITELMQVLKDLNHGKYERTMVSQ~~QEKGIEG~~
 VQVIPLIPGAGEIIIADNIIKFDHVPLATPNGDVLIRDLNFEVRS~~GANVLICGPNCGCKSSLFRVLGELW~~
 PLFGGRLTKPERGKLFYVQRPYMTLGLTRDQVIYPDGREDQKRKGISDLVLKEYLDNVQLGHILERE~~GG~~
 WDSVQD~~WMDVLSGG~~EKQRMAMARLFYHKPQFAILDECTSAVSVDVEGYIYSHCRKVGITLFTVSHR~~KSLW~~
 KHHEY~~LHMDGRGNYEFKQIT~~EDTVEFGS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002858

ORF Size: 1977 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_002858.2](#), [NP_002849.1](#)

RefSeq Size: 3423 bp

RefSeq ORF: 1980 bp

Locus ID: 5825

UniProt ID: [P28288](#)

Cytogenetics: 1p21.3

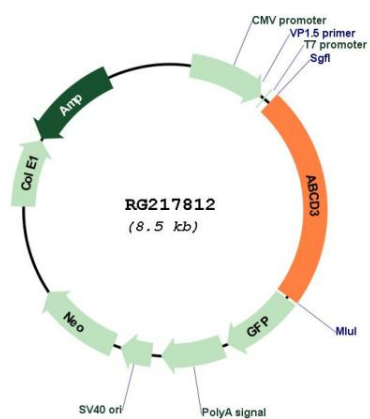
Domains: ABC_tran, AAA

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: ABC transporters

Gene Summary: The protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the ALD subfamily, which is involved in peroxisomal import of fatty acids and/or fatty acyl-CoAs in the organelle. All known peroxisomal ABC transporters are half transporters which require a partner half transporter molecule to form a functional homodimeric or heterodimeric transporter. This peroxisomal membrane protein likely plays an important role in peroxisome biogenesis. Mutations have been associated with some forms of Zellweger syndrome, a heterogeneous group of peroxisome assembly disorders. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG217812