

Product datasheet for **SC318802**

PMP70 (ABCD3) (NM_001122674) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PMP70 (ABCD3) (NM_001122674) Human Untagged Clone
Tag:	Tag Free
Symbol:	PMP70
Synonyms:	ABC43; CBAS5; PMP70; PXMP1; ZWS2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC318802 representing NM_001122674. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**GCGATCGCC**
 ATGGCGGCCTTCAGCAAGTACTTGACGGCGCGAACTCCTCGCTGGCTGGTGCCGCTTCCTGCTGCTC
 TGCCTGCTCCACAAGCGGCGCCGCGCCCTCGGCTGCACGGTAAGAAAAGTGAAAACCACTTACAG
 AACATGAGAAAGAGGGGAAAAAGGAGCGAGCTGTGGTGACAAGGTGTTTTCTCAAGGCTCATACAG
 ATTCTGAAAATCATGGTCCCTAGAACATTTTGTAAAGAGACAGGTTACTTGGTACTTATTGCTGTTATG
 CTGGTGTCTCGAACATATTGTGATGTTTGGATGATTCAAATGGGACACTAATTGAAAGTGGTATCATT
 GGTCGTAGCAGGAAAGATTTCAAGAGATACTTACTCAACTTCATCGCTGCCATGCCTCTTATCTCTCTG
 GTTAATAACTTCTTGAAGTATGGTTAAATGAGCTTAACTGTGCTTCCGAGTAAGGCTCACTAAATAC
 CTCTATGAGGAGTATCTTCAAGCTTTCACATATTATAAAATGGGGAATCTGGACAACAGAATAGCTAAT
 CCAGACCAGCTGCTTACACAAGATGTAGAAAAATTTGTAAACAGTGTAGTCGATCTGTATTCAAATCTT
 AGTAAGCCATTTTAGACATAGTTTGTATATCTTAAAGTTAACGAGTGCAATTGGAGCTCAGGTA
 GGAAAAATTTGTGGCAT**TAA**
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	NM_001122674
Insert Size:	711 bp


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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_001122674.1</u>
RefSeq Size:	967 bp
RefSeq ORF:	711 bp
Locus ID:	5825
UniProt ID:	<u>P28288</u>
Cytogenetics:	1p21.3
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	ABC transporters
MW:	27.1 kDa

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]

Transcript Variant: This variant (2) has multiple differences in the 3' coding region and 3' UTR and contains an alternate exon in the central coding region, compared to variant 1, that results in a protein (isoform b) with a shorter, distinct C-terminus when compared to isoform a.