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Product datasheet for SC118377

PMP70 (ABCD3) (NM_002858) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PMP70 (ABCD3) (NM_002858) Human Untagged Clone
Tag:	Tag Free
Symbol:	PMP70
Synonyms:	ABC43; CBAS5; PMP70; PXMP1; ZWS2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene ORF within SC118377 sequence for NM_002858 edited (data generated by NextGen Sequencing)

ATGGCGGCCTTCAGCAAGTACTTGACGGCGCGAAACTCCTCGCTGGCTGGTGCCGCGTTC
CTGCTGCTCTGCCTGCTCCACAAGCGGCGCCGCGCCCTCGGCCTGCACGGTAAGAAAAGT
GGAAAACCACCATTACAGAACAATGAGAAAGAGGGGAAAAAGGAGCGAGCTGTGGTGGAC
AAGGTGTTTTTCTCAAGGCTCATACAGATTCTGAAAATCATGGTCCCTAGAACATTTTGT
AAAGAGACAGGTTACTTGGTACTTATTGCTGTTATGCTGGTGTCTCGAACATATTGTGAT
GTTTGGATGATTCAAAATGGGACACTAATTGAAAGTGGTATCATTGGTCGTAGCAGGAAA
GATTTCAAGAGATACTTACTCAACTTCATCGCTGCCATGCCTCTTATCTCTCTGGTTAAT
AACTTCTTGAAGTATGGGTTAAATGAGCTTAAACTGTGCTTCCGAGTAAGGCTCACTAAA
TACCTCTATGAGGAGTATCTTCAAGCTTTCACATATTATAAAATGGGGAATCTGGACAAC
AGAATAGCTAATCCAGACCAGCTGCTTACACAAGATGTAGAAAAATTTTGTAACAGTGTA
GTCGATCTGTATTCAAATCTTAGTAAGCCATTTTTAGACATAGTTTTGTATATCTTTAAG
TTAACGAGTGCAATTGGAGCTCAGGGCCCAGCGAGCATGATGGCCTACTTGGTTGTTTCT
GGGCTATTCCTAACTCGACTTCGAAGACCCATTGGTAAGATGACAATAACTGAGCAAAAG
TATGAAGGAGAATATAGATATGTTAATTCTCGGCTCATCACAAACAGTGAAGAAATTGCC
TTTTACAATGGGAATAAAAGAGAAAAGCAGACAGTCCACTCAGTCTTCCGAAAACTGGTG
GAACACCTACATAATTTCATTTTGTTTCGGTTTTCAATGGGCTTCATTGATAGTATTATT
GCCAAATACCTTGCCACTGTTGTTGGTTACCTAGTTGTCAGTCGCCCTTTCTTAGATTTG
TCTCATCCTCGACATCTCAAGAGTACACATTCGGAACTTCTAGAGGATTACTACCAAAGT
GGAAGAATGCTTTTGCGAATGTCTCAAGCTCTGGGTCGAATAGTTTTGGCTGGGCGTGAA
ATGACTAGATTGGCCGGTTTTACTGCTCGGATTACAGAATTAATGCAAGTACTGAAGGAT
TTAAATCATGGCAAATATGAGCGCACAATGGTCTTACAACAGGAAAAGGGTATTGAAGGA
GTACAAGTCATTCCCTTGATACCTGGTGCTGGAGAAATCATTATTGCAGATAACATTATA
AAGTTTGATCATGTTCCTTTAGCAACGCCAAATGGAGATGTTTTGATCCGAGACCTTAAT
TTTGAAGTTCGATCTGGGGCTAATGTTCTAATTTGTGGTCCAAATGGCTGCGGAAAGAGT
TCACTTTTCCGTGTTCTTGGTGAATTATGGCCTCTTTTTGGAGGACGTCTAACTAAACCT
GAAAGAGGAAAATTATTTTATGTTCCTCAGAGACCTTACATGACCCTTGGAACACTTCGA
GATCAAGTGATATATCCAGATGGACGAGAAGATCAGAAAAGGAAGGGAATTTCTGACCTA
GTACTGAAGGAATACTTAGACAATGTCCAGTTGGGTCATATCCTTGAACGTGAAGGAGGC
TGGGACAGTGTTCAGGATTGGATGGACGTACTCAGTGGTGGAGAAAAGCAAAGAATGGCG
ATGGCAAGATTATTTTATCATAAACCCCAGTTTGCCATTTTGGATGAATGCACAAGTGCA
GTTAGTGTCGACGTGGAAGGCTACATTTATAGTCATTGTCGAAAGGTTGGCATCACTCTC
TTCACTGTGTCTCATAGGAAATCTCTTTGGAAACATCATGAGTACTACCTGCATATGGAT
GGCAGAGGCAACTATGAATTCAAACAGATAACAGAAGATACAGTTGAGTTTGGCTCTTAG

Clone variation with respect to NM_002858.3
1235 c=>t

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002858 unedited
ACACCAATTCCGCACGAGGCCTCGTGCCTAATTCGGCACGAGGGCTGCGTGCAGTAAGGT
AGCCGCCGCCGCCGCCGCCGCCGCGTCCCCTCGCCGGCTCGCTGGTACCGGCAGTGCCAT
GGCGGCCTTCAGCAAGTACTTGACGGCGCGAAACTCCTCGCTGGCTGGTGCCGCGTTCNG
TTGCTTTGCCTGCTCCACAAGCGGCGCCGCGCCCTCGGCCTGCACGGTAAGAAAAGTGGA
AAACCACCATTACAGAACAATGAGAAAGAGGGGAAAAAGGAGCGAGCTGTGGTGGACAAG
GTGTTTTTCTCAAGGCTCATACAGATTCTGAAAATCATGGTCCCTAGAACATTTTGTAAA
GAGACAGGTTACTTGGTACTTATTGCTGTTATGCTGGTGTCTCGAACATATTGTGATGTT
TGGATGATTCAAAATGGGACACTAATTGAAAGTGGTATCATTGGTCGTAGCAGGAAAGAT
TTCAAGAGATACTTACTCAACTTCATCGCTGCCATGCCTCTTATCTCTCTGGTTAATAAC
TTCTTGAAGTATGGGTTAAATGAGCTTAAACTGTGCTTCCGAGTAAGGCTCACTAAATAC
CTCTATGAGGAGTATCTTCAAGCTTTCACATATTATAAAATGGGGAATCTGGACAACAGA
ATAGCTAATCCAGACCAGCTGCTTACACAAGATGTAGAAAAATTTTGTAACAGTGTAGTC
GATCTGTATTCAAATCTTATAAGCCATTTTTTAGACTAGTTTTGTATATCTTTAAGTTAA
CGAGTGCAATTGGAGCTCAGGGCCCCAGCGAGCATGATGGCCTACCTGGNTGTTTTCTGG
GCTATTCTTAACTCCACTTCAAGAACCAATGGTTAGATGACATTACTGAGCAN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002858 unedited
CGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTGATCTGAACAGAAAAAAGTATACAA
GTTCGCTAAACAGAAGTGGTAAAAATTGAATGTTATGTATTATGGAATTCAGTACATCAG
TTTACTTCGGTAGCCAGTGATTGTTATAGTTAATTCTGCAAAAAAACAAAACCAGTTATG
CAAAAACAAGAGTACAAAATGCCCCTTTCTGAAGCTCAGTTTGAGAAACTGATTTCGTAT
CTAGCTTATTGATTATACTCAGTTTCAATTCTCCCTGTGCAAATAATACATAAAGTCATT
AATGATGATTTGATGAACTGAAATCATCTTCGCTTAGGATCGTTTGACATCATAACCCAA
ATATAAAAAAAGTTATTCAAGATTCACAGAGATAAAACAGTGCCTCGGAAACATAATTCAC
CCATGTATATATAATAATTTTAGAACATACTTTTTAAACATAAAATCACAGTCAAAGACA
GTGATAGCATTGCATACTCAGTGCATTATTTCATGTAGTGCCTTCCTATGGCTCATTTGG
AGTTTAATACCAAATAACCACCACACTTCTAATGAATGGGCTTCTAACACACACAAATTT
GTCTAATTCTCTTAAAAATCTAGAACTCTTATAAGACCTTGAGCCTGGCATGTTAAGGAC
TTTGTGTTTTAATATCCCAAACATTGGGAAGATTANGTGTGATACATGGTAACCCCCTNC
TTTGTAGCAAGACTGCACATATACTTTAAACAACTCAATACTGCAGACTGAGAAGGGTAC
ATTTATCATTTAGTTAAGGAAAACCAAATGGCCTTTCCTGGAGGTAATGCACTCCCAGAC
CACACAAGGATGAGTATACTGGGCAGCTAAGAAATTGCCCTGATAATAACCTGTATGCAT
GATGTAACATTTATAATCATATGATCGTTCCACTACCAGGCACAGAAAATGACTGAGACT
TCTGCTAACGGCAATGAGACCAGTTTATAAGGTCTACTGAG

Restriction Sites: NotI-NotI

ACCN: NM_002858

Insert Size: 3160 bp

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).

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] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).