

## Product datasheet for **SC118506**

### **PMP2 (NM\_002677) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PMP2 (NM_002677) Human Untagged Clone
Tag:	Tag Free
Symbol:	PMP2
Synonyms:	CMT1G; FABP8; M-FABP; MP2; P2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118506 sequence for NM_002677 edited (data generated by NextGen Sequencing) ATGAGCAACAAATTCCTGGGCACCTGAAACTTGTCTCTAGTGAGAACTTTGACGATTAC ATGAAAGCTCTGGGTGTGGGTTAGCCACCAGAAAAGTGGGAAATTTGGCCAAACCCACT GTGATCATCAGCAAGAAAGGAGATATTATAACTATACGAACTGAAAGTACCTTTAAAAAT ACAGAGATCTCCTTCAAGCTAGGCCAGGAATTTGAAGAAACCACAGCTGACAATAGAAAAG ACCAAGAGCATCGTAACCCTGCAGAGAGGATCACTGAATCAAGTGCAGAGATGGGATGGC AAAGAGACAACCATAAAGAGAAAGCTAGTGAATGGGAAAATGGTAGCGGAATGTAAGATG AAGGGCGTGGTGTGCACCAGAATCTATGAGAAGGTCTGA  Clone variation with respect to NM_002677.3 186 a=>g



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_002677 unedited            GTTAGCATTGTATACGACTCATATAGGCGGCCGCAATTCGCACGAGGCGATGAGCAA            CAAATTCCTGGGCACCTGGAAACTTGTCTCTAGTGAGAACTTTGACGATTACATGAAAGC            TCTGGGTGTGGGGTTAGCCACCAGAAAACCTGGGAAATTTGGCCAAACCCACTGTGATCAT            CAGCAAGAAAGGAGATATTATACTATACGAACTGAAAGTACCTTTAAAAATACAGAGAT            CTCCTTCAAGCTAGGCCAGGAATTTGAAGAAACCACAGCTGACAATAGAAAGACCAAGAG            CATCGTAAACCCTGCAGAGAGGATCACTGAATCAAGTGCAGAGATGGGATGGCAAAGAGAC            AACCATAAAGAGAAAGCTAGTGAATGGGAAATGGTAGCGGAATGTAAAATGAAGGGCGT            GGTGTGCACCAGAATCTATGAGAAGGTCTGAAAAATCATTTCCTCATTGAAGTGGCTTTT            TATCATTAAATGATGAAATCAATTGCTTCCATTGACAAAACCTGAATACACTGCAAATAT            TTGTTTTTGTCTTAAATATACCAGATATGCAAAGGCCATAACTGAGAATTAATCT            AAAAGTCAGTGTATTTAAACATTTTCAATGTGCATGCATGTCATTATTACATCAAAGCA            TATATATTGGCCAGACACAAACAGTTGATGATGTCATTCAATTAACATAAAAATTCTAAT            CTATGTTGAACCTTGTATACTTGAATGATAATAAAAAGGATATAATTTCTTAGTAAAAT            GAAATCAAAGTATTGATCAGGGTAGCAAACCTCAAATGCTGACAGGGGCCAGAGGAGATTG            GGGGAANGGAGCATCAGAAATGAGGGCAGCTAGNAGAATGGGCTATTATAAATGTAAAGAA            TTGTAGTCTCAGTTAAAGGGGTAGCC</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_002677 unedited            TGGACCGCGGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTAAACATTACTTTCT            GGCATAACAAGATATTTCAAGCTCATCTTGTTCCCTACCTTGCCCTTGCTTTGGAATCATC            CATTTTTCCAAGTAGCCTTGGTTCCTTTTAGTGGCAAACCTATATTAGACACGAAGATCTG            AGTGCTAGGTATATTCATTTCTGCTGAGGTGTTTTTGTGTCTAAGCCATTTTGGCAGATA            GGATTAGTAAATATATGCATGTGTATACACACACGCACATAAATGCATGTGTATTATCAC            ACACATATATGCATGGAGGCATGTGTATGCAATTATAATACATATAAACGTACATATACA            TGGTTTAGAAATTATGAATTTATACCAATTCTATTCCATTTCCACATGGTTCTTTCTTGC            CTTCCCTCATTTCATATTTGTATATTTGTTTTTCCATAGTGAACATCCTGACTCCCATCA            ACATCAACATGTTTTCTCATTGCTCAATCATATAATACATCTGAAATAGTTTTATTATT            ACTTGGGCACAATGCAATGGTCCCCCGTTCCTGCCTGTCAACAATTACTGGACCTAATGA            TATGACTAGTTATTTATTTAAAAATAAAGGACTCCTATGTTTACAAAAAGTCTTTGTACAA            AAATATTTGTAGCAGCTTTATTCATAGCAGCCGAAAATTAGAATAGCTCAATTGTCTTAA            TAGTAGAATGGATNAACTGTGATATATTCATACCATGAAATAGTACTTGGGTATAAAAAAG            AAACAACTACAGCTGCATGCCACATGTGGATGTATCACAAAAACATGATGCTGAATTN            AAAAAAGGCAACAGAAAAGATGCATGATGTACAATCCCTTCTATGAGCAGGTAAATAATC            TATTGATAGAACCAACCTACTTGCTTGGC</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_002677
<b>Insert Size:</b>	2100 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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\\_002677.3](#), [NP\\_002668.1](#)

**RefSeq Size:** 3579 bp

**RefSeq ORF:** 399 bp

**Locus ID:** 5375

**UniProt ID:** [P02689](#)

**Cytogenetics:** 8q21.13

**Domains:** lipocalin

**Gene Summary:** The protein encoded by this gene localizes to myelin sheaths of the peripheral nervous system. The encoded protein can bind both the membrane layers of the sheaths and monomeric lipids, and is thought to provide stability to the sheath. A defect in this gene was shown to be a cause of dominant demyelinating CMT neuropathy. [provided by RefSeq, Jan 2017]  
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).