

Product datasheet for **SC109589**

PMP22 (NM_000304) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PMP22 (NM_000304) Human Untagged Clone
Tag:	Tag Free
Symbol:	PMP22
Synonyms:	CIDP; CMT1A; CMT1E; DSS; GAS-3; GAS3; HMSNIA; HNPP; Sp110
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_000304 edited
 GAATTCGGCACGAGGCCTCGTGCCGAATTCGGCACGAGGCGTCGCTCGGCCAGTGCGTT
 CGGCCTCACGCCAGCGCTCTCCTCGCAGGCAGAACTCCGCTGAGCAGAACTTGCCGCC
 AGAATGCTCCTCTGTTGCTGAGTATCATCGTCTCCAGTTCGCGGTGCTGGTGTGCTG
 TTCGTCTCCACGATCGTCAGCCAATGGATCGTGGGCAATGGACACGCAACTGATCTCTGG
 CAGAAGTGTAGCACCTTCTCCTCAGGAAATGTCCACCAGTGTTCATCATCACCAAAC
 GAATGGTGCAGTCTGTCCAGGCCACCATGATCCTGTGCATCATCTTCAGCATTCTGTCT
 CTGTTCTCTGTTCTCTGCCAACTCTTCACCCTACCAAGGGGGCAGGTTTTACATCACT
 GGAATCTTCCAAATCTTGTGCTGTGCGTGATGAGTCTGCGCCATCTACACGGTG
 AGGCACCCGGAGTGGCATCTCAACTCGGATTACTCCTACGGTTTCGCTACATCTGGCC
 TGGGTGGCCTTCCCCTGGCCCTTCTCAGCGGTGTATCTATGTGATCTTGCGGAAACGC
 GAATGAGGCGCCAGACGGTCTGTCTGAGGCTCTGAGCGTACATAGGGAAGGGAGGAAGG
 GAAACCAGAAAGCAGACAAAAGAAAAAGAGCTAGCCAAAATCCCAAACCAAACCAAAC
 CAAACAGAAAGCAGTGGAGTGGGGTGTCTGTTGATTGAAGATGATATAATATCTCCG
 GTTTATAAAACCTATTTATAACACTTTTTACATATATGTACATAGTATTGTTTGTCTTTT
 ATGTTGACCATCAGCCTCGTGTGAGCCTTAAAGAAGTAGCTAAGGAACCTTACATCCTA
 ACAGTATAATCCAGCTCAGTATTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTACCC
 AGAAATAAGATAACTCCATCTCGCCCTTCCCTTTCATCTGAAAGAAGATACCTCCCTCC
 CAGTCCACCTCATTTAGAAAACCAAAGTGTGGGTAGAAACCCCAAATGTCCAAAAGCCCT
 TTTCTGGTGGGTGACCCAGTGCATCCAACAGAAACAGCCGCTGCCGAACCTGTGTGAAG
 CTTTACGCGCACACGGACAAAATGCCAAAACGGAGCCCTTGCAAAAACAGGCTGTGG
 CATTGGCATACTGCCCTTACAGGTGGAGTATCTTCGTACACATCTAAATGAGAAATCA
 GTGACAAACAAGTCTTTGAAATGGTGTCTATGGATTTACCATTCTTATTACTCAATCA
 CTAACAACACTCACTGGAATCCAATTAACAATTTACAACATAAGATAGAATGGAGACCT
 GAATAATTCTGTGTAATATAAATGGTTTTAACTGCTTTTGTACCTAGCTAGGCTGCTAT
 TATTACTATAATGAGTAAATCATAAAGCCTTCATCACTCCACATTTTTCTTACGGTCGG
 AGCATCAGAAACAAGCGTCTAGACTCCTTGGGACCGTGAGTTCCTAGAGCTTGGCTGGGTC
 TAGGCTGTTCTGTGCCTCCAAGGACTGTCTGGCAATGACTTGTATTGGCCACCAACTGTA
 GATGTATATATGGTGCCTTCTGATGCTAAGACTCCAGACCTTTTGTGTTTGTCTTGCAT
 TTTCTGATTTTATACCAACTGTGTGGACTAAGATGCATTAATAAACATCAGAGTAACT
 CAAAAAAAAAAAAAAAAAACTCGAC

5' Read Nucleotide Sequence: >OriGene 5' read for NM_000304 unedited
 GGCACATTTGTATACGACTCACTATAGGCGGCCCGCAATTCGCACGAGGCTCGTGCCG
 AATTCGGCACGAGGCGTCTCGGCCAGTGCGTTTCGGCTCACGCCAGCGCTCTCCTC
 GCAGGCAGAACTCCGCTGAGCAGAACTGCGGCCAGAATGCTCCTCTGTTGCTGAGTA
 TCATCGTCTCCACGTCGCGGTGCTGGTGTCTGTTTCGTCTCCACGATCGTCAGCCAAT
 GGATCGTGGGCAATGGACACGCAACTGATCTCTGGCAGAAGTGTAGCACCTCTTCTCAG
 GAAATGTCCACCAGTGTCTCATCATACCAAACGAATGGCTGCAGTCTGTCCAGGCCA
 CCATGATCCTGTGATCATCTTCAGCATTCTGTCTCTGTTCTGTTCTTCTGCCAACTCT
 TCACCCTACCAAGGGGGCAGGTTTTACATCACTGGAATCTTCCAAATCTTGTGGTCT
 TGTGCGTGATGAGTGTGCGGCCATCTACACGGTGAGGCACCCGGAGTGGCATCTCAACT
 CGGATTACTCCTACGTTTTCGCTACATCCTGGCCTGGTGGCCTTCCCCTGGCCCTTC
 TCAGCGGCGTCATCTATGTGATCTTGCAGAAACCGCAATGAGGCGCCAGACGGTCTGTC
 TGAGGCTCTGAGGCTCATAGGGGAAGGAGGAAGGAAACCATAAAGCAGACATAGAACAA
 AGAGCTAGCCCAAATCCCAAACCTCANCCAAACCCNACAGAAAGCCCGGAGGCGGGGN
 TTGCTGTTGATTGAAGAGTATATAATATCTCCGGTNTATAAACCTAATTATAAACTTT
 TTACATATATGGACCATAGATTGNNNGGCTTTTTATGTTGACCCATCANCCTCGTGTGA
 GCCCTAAAGCACTC

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_000304 unedited CGGCCGCAATCTAGNATCGAGTTTTTTTTTTTTTTTTTTTGGAGTTACTCTGATGTTTATTT TAATGCATCTTAGTCCACACAGTTGGTATAAAATCAGAAAATGCAAAGCAAAAACAAAAG GTCTGGAGTCTTAGCATCAGAAGGGCACCATATATACATCTACAGTTGGTGGCCAATACA AGTCATTGCCAGACAGTCTTGGAGGCACAGAACAGCCTAGACCCAGCCAAGCTCTAGGA ACTCACGGTCCCAAGGAGTCTAGACGCTTGTCTGATGCTCCGACCGTAAGAAAAATGTG GGAGTGATGAAGGCTTTATGATTTACTCATTATAGTAATAATAGCAGCCTAGCTAGGTAC AAAAGCAGTTATAAACCATTTATATTACACAGAATTATTCAGGCTCCATTCTATCTTAT GTTGTAATAATTGTTAATTGGATTCCAGTGAGTTGTTTAGATGATTAGTGATAATAAGGA ATGGTAAATCCATAGCACCATTCAAAGACTTGTGTCACTGATTTCTCATTTAGATGTG TGACGAAGATACTCCACCTGTAAGGGCAAGTATGCCAATGCCACAAGCCGTGTTTTTGA AGGGCTCCAGTTTGGCATTTTGTCCGTGTGCGCGTAAAGCTTCACACAGGTTCCGGCGAG CGGCTGTTTCTGTGGATGCACTGGGTCAACCACAGAAAGGGGCTTTTGACATTTGGGG TTTCTACCCCACTTTGGGTTTCTAATGAGGTGGACTGGGAGGGAAGTATCTTCTTTCAA TGAAAGGGAAGGGGCGAGATGGAGTTATCTTAATTNCTGGGTANACCAAACANACANCC AAAAACAAACCAAAATCCTGAGCTGGNATATACTGTTAGGATGTTAAAGTTCCTTACCTA CTTCTTAAGGCTCAACACGAGGCTGAAGGTCACATAAAAGCCAACAATCTTGG
Restriction Sites:	NotI-NotI
ACCN:	NM_000304
Insert Size:	1800 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:	<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:	NM_000304.2 , NP_000295.1
RefSeq Size:	1828 bp
RefSeq ORF:	483 bp
Locus ID:	5376
UniProt ID:	Q01453
Cytogenetics:	17p12
Protein Families:	Transmembrane

Gene Summary:

This gene encodes an integral membrane protein that is a major component of myelin in the peripheral nervous system. Studies suggest two alternately used promoters drive tissue-specific expression. Various mutations of this gene are causes of Charcot-Marie-Tooth disease Type IA, Dejerine-Sottas syndrome, and hereditary neuropathy with liability to pressure palsies. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]

Transcript Variant: This variant (1) encodes isoform 1. Variants 1-5 encode the same isoform (1).