

Product datasheet for **SC100521**

PMP22 (NM_153321) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PMP22 (NM_153321) 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_153321 edited
 GAATTCGGCAGGAGGCGCAGCCCCGAGCGCAGCTTTGGCGGCGCCAGCAGCGGAGCCAA
 CGCACCCGAGTTTGTGTTTGAGGCCACCCTGAGGATCGGGACAGCTGTTCTTTGGGCTG
 CAGAACTCCGCTGAGCAGAAGTGGCCGAGAATGCTCCTCCTGTTGCTGAGTATCATC
 GTCCTCCACGTCGCGGTGCTGGTGTCTGTTGCTCCTCCAGTATCGTCAAGCAATGGATC
 GTGGCAATGGACACGCAACTGATCTCTGGCAGAAGTGTAGCACCTCTTCTCAGGAAAT
 GTCCACCAGTCTTCTCATCATCAACCAACGAATGGCTGCAGTCTGTCAGGCCACCATG
 ATCCTGTGATCATCTTCAAGATTCTGTCTGTTCTGTTCTTCTGCCAACCTTTCACC
 CTCACCAAGGGGGCAGTTTTACATCACTGGAATCTTCAAATCTTGCTGGTCTGTGC
 GTGATGAGTGTGCGGCCATCTACACGGTGAGGCACCCGGAGTGGCATCTCAACTCGGAT
 TACTCCTACGGTTTCGCCTACATCCTGGCCTGGGTGGCCTTCCCCTGGCCCTTCTCAGC
 GGTGTCATCTATGTGATCTTGGGAAACGCGAATGAGGCGCCAGACGGTCTGTCTGAGG
 CTCTGAGCGTACATAGGGAAGGGAGGAAGGAAACCAGAAAGCAGACAAAGAAAAAGAG
 CTAGCCAAAATCCCAAACCAACCAACCAACAGAAAGCAGTGGAGGTGGGGTTGC
 TGTTGATTGAAGATGTATATAATATCTCCGGTTTAAAAACCTATTTATAACACTTTTTA
 CATATATGTACATAGTATTGTTTGTCTTTTATGTTGACCATCAGCCTCGTGTGAGCCCT
 AAAGAAGTAGCTAAGGAACCTTACATCCTAACAGTATAATCCAGCTCAGTATTTTTGTTT
 TGTTTTTGTGTTTGTGTTTGTGTTTACCCAGAAATAAGATAACTCCATCTCGCCCTTC
 CCTTTCATCTGAAAGAAGATACCTCCCTCCAGTCCACCTCATTTAGAAAACCAAAGTGT
 GGGTAGAAACCCCAATGTCCAAAAGCCCTTTTCTGGTGGGTGACCCAGTGCATCCAACA
 GAAACAGCCGCTGCCGAACCTGTGTGAAGCTTACGCGCACACGGACAAAATGCCAAA
 CTGGAGCCCTTGCAAAAACACGGCTTGTGGCATTGGCATACTTGCCTTACAGGTGGAGT
 ATCTTCGTACACATCTAAATGAGAAATCAGTGACAACAAGCTTTGAAATGGTGTATG
 GATTTACCATTCTTATTATCACTAATCATCTAAACAACCTCACTGGAAATCCAATTAACA
 ATTTTACAAATAGATAGAATGGAGACCTGAATAATTCTGTGTAATATAAATGGTTTAT
 AACTGCTTTTGTACCTAGCTAGGCTGCTATTACTATAATGAGTAAATCATAAAGCCT
 TCATCACTCCACATTTTTCTTACGGTGGGAGCATCAGAACAAGCGTCTAGACTCCTTGG
 GACCGTGAGTTCCTAGAGCTTGGCTGGGCTAGGCTGTTCTGTGCCTCCAAGGACTGTCT
 GGCAATGACTTGTATTGGCCACCAACTGTAGATGTATATATGGTGCCTTCTGATGCTAA
 GACTCCAGACCTTTTGTGTTTGTCTTGCATTTTCTGATTTTATACCAACTGTGTGGACTA
 AGATGCATTAATAAACATCAGAGTAAAAAAAAAAAAAAAAAACTCGAC

5' Read Nucleotide Sequence: >OriGene 5' read for NM_153321 unedited
 GGGGGTCAAATTTGTATACGACTCACTATAGGCGGCCGCGATTCCGGCAGGAGGCGCAGC
 CCCGCAGCGCAGCTTTGGCGGCGCCAGCAGCGGAGCCAACGCACCCGAGTTTGTGTTTGA
 GGCCACCCTGAGGATCGGGACAGCTGTTCTTTGGGCTGCAGAACTCCGCTGAGCAGAA
 CTTGCCCGCAGAATGCTCCTCCTGTTGCTGAGTATCATCGTCTCCACGTCGCGGTGCTG
 GTGCTGTGTTCTGCTCCACGATCGTCAAGCAATGGATCGTGGGCAATGGACACGCAACT
 GATCTCTGGCAGAAGTGTAGCACCTTCTCCTCAGGAAATGTCCACCACTGTTTCTCATCA
 TCACCAACGAATGGCTGCAGTCTGTCCAGGCCACCATGATCCTGTGATCATCTTACAGC
 ATTCTGTCTGTGTTCTGTTCTTCTGCCAACCTTTCACCCTACCAAGGGGGCAGGTTT
 TACATCACTGGAATCTTCAAATTTCTGCTGGTCTGTGCGTGATGAGTGTGCGGCCATC
 TACACGGTGAGGCACCCGAGTGGCATCTCAACTCGGATTACTCTACGGTTTTCGCCTAC
 ATCCTGGCCTGNGTGGCCTTCCCCTGGCCCTTCTCAGCGGTGCATCTATGTGATCTTG
 CGGAAACGCGAATGAGGGCCCCAGACGGTCTGTCTGAGGCTCTGAGCGTCTANGGAAAG
 GANGAAGGGAAACCAAAAGCAGACCAAGAAAAAGAGTAGCCAAAATCCCAAACCTCA
 AACCAACCAACAGAAAGCANNTGGAGGTGGGGGTTGCTCGNTGATTGAAGATGTATA
 TAATATCTNCCGTTTATAAAACCTATTTATAACACTTTNTACATATATGTACATAGNAA
 TGGNTTGCCTTTTTATTTTGACCT

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_153321 unedited CTATGGAACCGCGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTACTCTGATGT TTATTTTAAATGCATCTTAGTCCACACAGGTGGCATAAAATCAGAAAATGCAAAGCAAAA CAAAAGGTCTGGAGTCTTATCATCATAAGGGCACCATATACATCTACAATTGGTGGCC AATACAAGTCATTGCCAGACAGTCTTGGAGGCACAGAACAACCTATACCCATCCAAGCT CTAAGAACTCACGGTCCACCAGAGTCTAGACGCTTGTCTGATGCTCCGACCGTAAGAAA AATGTGGCAGTGATGAAGGCTTTATGATTTACTCATTATACTAATAATAGCAGCCTAACT AGGTACAAAAGCAGTTATAAACCATTTATTACACAGAATTATCAAGTCTCCGTCTA TCTTATGTTGAAAATTGATAATTGGATTTCAGTGAGTTGTTTAAATGACTACTGATGA TAATGAATGGAATCCGTAGCACCCCTTCAAAGACTTGTGTCACTGATTTCTCATTTA AATGTGTGACGAAAATACTCCACCTGTAATGGCAAGTATGCCAATGCCACAAGCCGTGTT TTTTCAAAGGCTCCCTTTGGGCATTATAGTCGTGTGCGCGTAAAGCTATCCACAAGTAT GGGCAGCGGCTGTTTCTGTTGGATCACAGTGTACCCACCATAACAAGGCTGGATGGCAT TTGGGGTTTCTTCGCACACTTTGGTTTTCTAAATGAGGTGGACTGGGAGGGAGGTATCCT CTTTCACAGAAAAGGAAGGGCCAGATGGATTATCTTATTCTGGGTAACAAACCGACACC CAAAACAACCGAAATCTGGGCTGGATTACTGTTAGAAGTAAAGTCTACTACTTCTTAAG CTAACACCAGCTGATGGTCACTAAAAGCAACAACTTTGTCTTTGAAAATGGTATAAA AG
Restriction Sites:	NotI-NotI
ACCN:	NM_153321
Insert Size:	1750 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_153321.1 , NP_696996.1
RefSeq Size:	1816 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 (2) differs in the 5' UTR, compared to variant 1. Variants 1-5 encode the same isoform (1).