

Product datasheet for **RG216500**

PMP22 (NM_000304) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PMP22 (NM_000304) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: PMP22
Synonyms: CIDP; CMT1A; CMT1E; DSS; GAS-3; GAS3; HMSNIA; HNPP; Sp110
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG216500 representing NM_000304
Red=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGCAGTCTGTCCAGGCCACCATGATCCTGTGATCATCTTCAGCATTCTGTCTGTTCCTGTTC
TTCTGCCAACTCTTCACCCTACCAAGGGGGCAGGTTTTACATCACTGGAATCTTCAAATTTCTTGCTG
GTCTGTGCGTGATGAGTGTCTGCGCCATCTACACGGTGAGGCACCCGGAGTGGCATCTCAACTCGGATTA
CTCCTACGGTTTCGCCTACATCCTGGCCTGGGTGGCCTCCCCCTGGCCCTTCTCAGCGGTGCATCTAT
GTGATCTTGCGGAAACGCGAATGAGGCGCCAGACGGTCTGTCTGAGGCTCTGAGCGTACATAGGGAAGG
GAGGAAGGGAAACCAGAAAGCAGACAAAGAAAAAGAGCTAGCCCAAAATCCCAAATCAAACCAACCA
AACAGAAAGCAGTGGAGGTGGGGTTGCTGTTGATTGAAGATGTATATAATATCTCCGGTTTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG216500 representing NM_000304
Red=Cloning site **Green**=Tags(s)

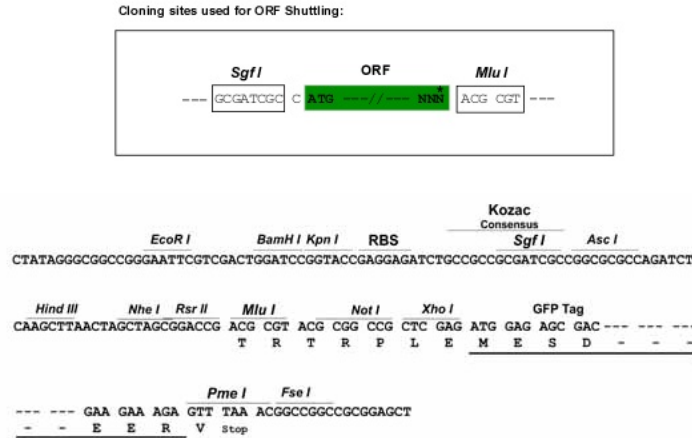
MAAVCPGHDPVDHLQHSVSPVLLPTLHPHQGGQVLHHWNL PNSCWSVRDECCGHLHGEAPGVASQLGL
LLRFRLLHPGLGGLPPGPSQRCHLCDLAETRMRRPDGLSEALS VHREGRKGNQKADKEKRASPKSQTQTP
NRKQWRWGLLLIEDVYNISGL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_000304

ORF Size: 483 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_000304.2](#), [NP_000295.1](#)

RefSeq Size: 1828 bp

RefSeq ORF: 483 bp

Locus ID: 5376

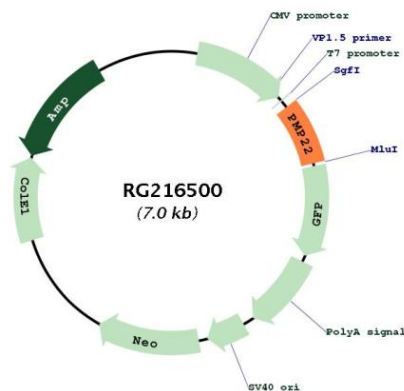
UniProt ID: [Q01453](#)

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]

Product images:



Circular map for RG216500