

Product datasheet for **RG218781**

PMP22 (NM_153322) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PMP22 (NM_153322) 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: >RG218781 representing NM_153322
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTCCTCTGTTGCTGAGTATCATCGTCTCCACGTCGCGGTGCTGGTCTGCTGTTTCGCTCTCCACGA
 TCGTCAGCCAATGGATCGTGGGCAATGGACACGCAACTGATCTCTGCCAGAACTGTAGCACCTCTTCCTC
 AGGAAATGTCCCACTGTTTCTCATCATCAACAAACGAATGGCTGCAGTCTGTCCAGGCCACCATGATC
 CTGTGATCATCTTCAGATTCTGTCTCTGTTCTTCTGCAACTCTCACCTCACCAAGGGGG
 GCAGGTTTACACTGGAATCTTCAAATTCTGCTGGTCTGTGCGTGATGAGTGCTGCGCCATCTA
 CACGGTGAGGCACCCGGAGTGGCATCTCAACTCGGATTACTCCTACGGTTTCGCCTACATCTGGCCTGG
 GTGGCCTTCCCCTGGCCCTTCTCAGCGGTGTCATCTATGTGATCTTGCGGAAACCGCAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG218781 representing NM_153322
 Red=Cloning site Green=Tags(s)

MLLLLLSIIVLHVAVLVLLFVSTIVSQWIVNGHATDLWQNCSTSSSGNVVHCFSSSPNEWLQSVQATMI
 LSIIIFSLSLFLFFCQLFTLTKGGRFYITGIFQILAGLCVMSAAAIYTVRHPPEWHLNSDYSYGFAYILAW
 VAFPLALLSGVIYVILRKRE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

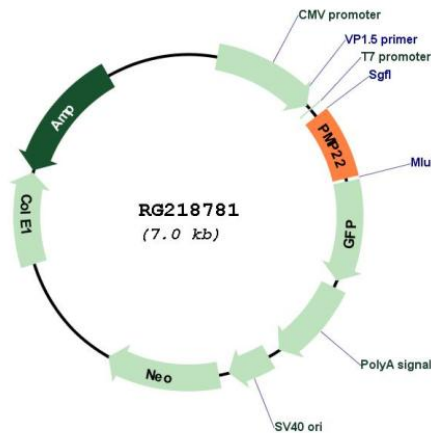


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Cloning Scheme:



Plasmid Map:



ACCN: NM_153322

ORF Size: 480 bp

OTI Disclaimer: 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:	<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:	<u>NM_153322.3</u>
RefSeq Size:	1669 bp
RefSeq ORF:	483 bp
Locus ID:	5376
UniProt ID:	<u>Q01453</u>
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]