

Product datasheet for RC216500

PMP22 (NM_000304) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product Type:	Expression Plasmids
Product Name:	PMP22 (NM_000304) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PMP22
Synonyms:	CIDP; CMT1A; CMT1E; DSS; GAS-3; GAS3; HMSNIA; HNPP; Sp110
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC216500 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGCTCCTCCTGTTGCTGAGTATCATCGTCCTCCACGTCGCGGTGCTGGTGCTGCTGCTGTTCGTCTCCACGA TCGTCAGCCAATGGATCGTGGGCAATGGACACGCAACTGATCTCTGGCAGAACTGTAGCACCTCTTCCTC AGGAAATGTCCACCACTGTTTCTCATCATCACCAAACGAATGGCTGCAGTCTGTCCAGGCCACCATGATC CTGTCGATCATCTTCAGCATTCTGTCTCTGTTCTTGTTCTGCCAACTCTTCACCCCTCACCAAGGGGG GCAGGTTTTACATCACTGGAATCTTCCAAATTCTTGCTGGTCTGTGCGTGATGAGTGCTGCGGCCATCTA CACGGTGAGGCACCCGGAGTGGCATCTCAACTCGGATTACTCCTACGGTTTCGCCTACATCCTGGCCTGG GTGGCCTTCCCCCTGGCCCTTCTCAGCGGTGTCATCTATGTGATCTTGCGGAAACGCGAA
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG GTTTAA
Protein Sequence:	>RC216500 protein sequence <mark>Red</mark> =Cloning site Green=Tags(s)
	MLLLLLSIIVLHVAVLVLLFVSTIVSQWIVGNGHATDLWQNCSTSSSGNVHHCFSSSPNEWLQSVQATMI LSIIFSILSLFLFFCQLFTLTKGGRFYITGIFQILAGLCVMSAAAIYTVRHPEWHLNSDYSYGFAYILAW VAFPLALLSGVIYVILRKRE
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6060_b04.zip



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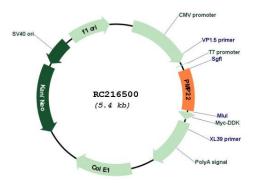
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	Cloning sites used for ORF Shuttling:
	$\frac{Kozac}{Consensus}$ CTATAGGGCGGGGCGGGAATTCGTCGACTGGATCGGGTACCGGAGGGGGAATCGCGCGGGGGCGGGGGGGG
ACCN:	* The last codon before the Stop codon of the ORF NM_000304
ORF Size:	480 bp
OTI Disclaimer:	Due to the inherent 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 <u>custsupport@origene.com</u> 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. <u>More info</u>
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).

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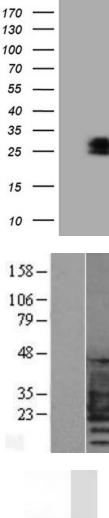
Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM 000304.4</u>
RefSeq Size:	1861 bp
RefSeq ORF:	483 bp
Locus ID:	5376
UniProt ID:	<u>Q01453</u>
Cytogenetics:	17p12
Protein Families:	Transmembrane
MW:	17.9 kDa
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]

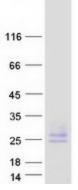
Product images:



Circular map for RC216500

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HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY PMP22 (Cat# RC216500, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PMP22 (Cat# [TA808964]). Positive lysates [LY424991] (100ug) and [LC424991] (20ug) can be purchased separately from OriGene.

Western blot validation of overexpression lysate (Cat# [LY403508]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC218781] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified PMP22 protein (Cat# [TP316500]). The protein was produced from HEK293T cells transfected with PMP22 cDNA clone (Cat# RC216500) using MegaTran 2.0 (Cat# [TT210002]).

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