

# Product datasheet for RC204349

# PMP22 (NM\_153321) Human Tagged ORF Clone

### **Product data:**

#### OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	PMP22 (NM_153321) 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>&gt;RC204349 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGCC</mark>
	ATGCTCCTCCTGTTGCTGAGTATCATCGTCCTCCACGTCGCGGTGCTGGTGCTGCTGCTGTTCGTCTCCACGA TCGTCAGCCAATGGATCGTGGGCAATGGACACGCAACTGATCTCTGGCAGAACTGTAGCACCTCTTCCTC AGGAAATGTCCACCACTGTTTCTCATCATCACCAAACGAATGGCTGCAGTCTGTCCAGGCCACCATGATC CTGTCGATCATCTTCAGCATTCTGTCTCTGTTCTGT
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG <b>GTTTAA</b>
Protein Sequence:	>RC204349 protein sequence <mark>Red</mark> =Cloning site Green=Tags(s)
	MLLLLLSIIVLHVAVLVLLFVSTIVSQWIVGNGHATDLWQNCSTSSSGNVHHCFSSSPNEWLQSVQATMI LSIIFSILSLFLFFCQLFTLTKGGRFYITGIFQILAGLCVMSAAAIYTVRHPEWHLNSDYSYGFAYILAW VAFPLALLSGVIYVILRKRE
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6060_b04.zip



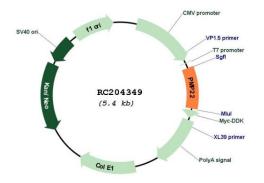
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	PMP22 (NM_153321) Human Tagged ORF Clone – RC204349
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	Cloning sites used for ORF Shuttling: Sgfi ORF Miu I GCGATCGC C ATG NIXÍ ACG CGT
	$\begin{array}{c} Kozac \\ \underline{Consensus} \\ \underline{FooRI} \\ \underline{FooRI} \\ \underline{FooRI} \\ \underline{FooRI} \\ \underline{FooRI} \\ \underline{FooRI} \\ \underline{Fooregate} \\ $
	Ecor V     Flag.Tag     Pme i     Fse i       GAT CTG GCA GCA AAT GAT ATC CTG GAT TAC AAG GAT GAC GAC GAC GAT AAG GTT TAA ACGGCCGGGCC     D     L     A     N     D     I     L     D     Y     K     D     D     K     V     stop
	* The last codon before the Stop codon of the ORF
ACCN:	NM_153321
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. <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).
Reconstitution M	<ul> <li>ethod: 1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ul>
lefSeq:	<u>NM 153321.3</u>
<b>6</b>	1818 bp
lefSeq Size:	
efSeq Size: efSeq ORF:	483 bp

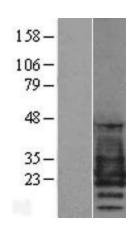
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	PMP22 (NM_153321) Human Tagged ORF Clone – RC204349
UniProt ID:	<u>Q01453</u>
Cytogenetics:	17p12
Protein Families:	Transmembrane
MW:	17.9 kDa
Gene Summary:	This gene encodes an integral membrane protein that is a major component of myelin in the 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 RC204349



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]).

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