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Product datasheet for RG236169

PMP22 (NM_001281455) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PMP22 (NM_001281455) 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:

>RG236169 representing NM_001281455.
Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTCCTCCTGTTGCTGAGTATCATCGTCCTCCACGTCGCGGTGCTGGTGCTGCTGTTCGTCTCCACG
ATCGTCAGCCAATGGATCGTGGGCAATGGACACGCAACTGATCTCTGGCAGAACTGTAGCACCTCTTCC
TCAGGAAATGTCCACCACTGTTTCTCATCATCACCAAACGAATGGCTGCAGTCTGTCCAGGCCACCATG
ATCCTGTCGATCATCTTCAGCATTCTGTCTCTGTTCCTGTTCTTCTGCCAACTCTTCACCCTCACCAAG
GGGGGCAGGTTTTACATCACTGGAATCTTCCAAATTCTTGCTGGTCTGTGCGTGATGAGTGCTGCGGCC
ATCTACACGGTGAGGCACCCGGAGTGGCATCTCAACTCGGATTACTCCTACGGTTTCGCCTACATCCTG
GCCTGGGTGGCCTTCCCCCTGGCCCTTCTCAGCGGTGTCATCTATGTGATCTTGCGGAAACGCGAA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

Protein Sequence:

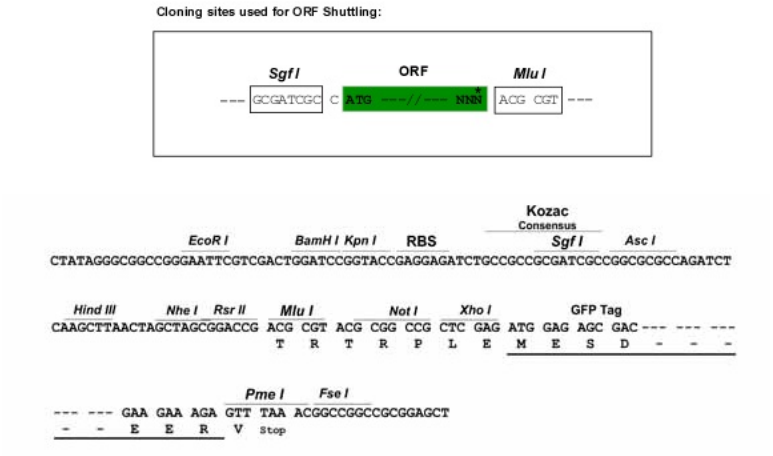
>Peptide sequence encoded by RG236169
Blue=ORF Red=Cloning site Green=Tag(s)

MLLLLLSIIVLHVAVLVLLFVSTIVSQWIVGNGHATDLWQNCSTSSSGNVHHCFSSSPNEWLQSVQATM
ILSIIFSILSLFLFFCQLFTLTKGGRFYITGIFQILAGLCVMSAAAIYTVRHPEWHLNSDYSYGFAYIL
AWVAFPLALLSGVIYVILRKRE
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

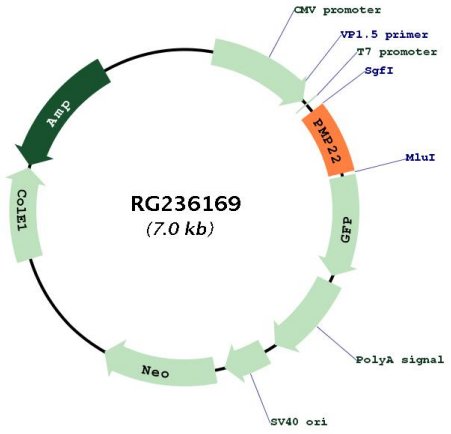
Restriction Sites: SgfI-MluI

View online »

Cloning Scheme:



Plasmid Map:



ACCN: NM_001281455

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).
RefSeq:	NM_001281455.1, NP_001268384.1
RefSeq Size:	1822 bp
RefSeq ORF:	483 bp
Locus ID:	5376
UniProt ID:	Q01453
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]