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 datasheet for MG227005

Mpz (NM_008623) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mpz (NM_008623) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mpz
Synonyms:	M; Mpp; P; P-zero; P0
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG227005 representing NM_008623
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTCCCGGGGCTCCCTCCTCCAGCCCCAGCCCTATCCTGGCTGCCCTGCTCTTCTCTTCTTTGGTGC
TCTCTCCAGCCCTGGCCATTGTGGTTTACACGGACAGGGAAATCTATGGTGCCGTGGGCTCCCAGGTGAC
CCTGCACTGCTCCTTCTGGTCCAGTGAATGGGTCTCAGATGACATCTCTTTTACCTGGCGCTACCAGCCT
GAAGGGGGCCGAGATGCCATTTCGATCTTCCACTATGCCAAGGGACAACCTTACATCGATGAGGTGGGGA
CCTTCAAAGAGCGCATCCAGTGGGTAGGGGACCCTCGCTGGAAGGATGGCTCCATTGTCATACACAACCT
AGACTACAGTGACAACGGCACTTTCACATGTGATGTCAAAAACCCACCGGACATAGTGGGCAAGACCTCT
CAGGTCACGCTCTATGTCTTTGAAAAAGTGCCCACTAGGTATGGGGTGGTGTTGGGAGCAGTGATCGGGG
GCATCCTCGGGGTGGTGCTGTTGCTGCTGTTGCTCTTCTACCTGATTCGGTACTGCTGGCTGCGCAGGCA
GGCTGCCCTGCAGAGAAGGCTCAGTGCCATGGAGAAGGGGAGATTTCACAAATCTTCGAAGGACTCCTCG
AAGCGAGGGCGGCAGACGCCAGTGCTGTATGCCATGCTGGACCACAGCCGAAGCACCAAAGCTGCCAGTG
AGAAGAAATCAAAAGGGCTGGGGGAGTCTCGCAAGGATAAGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

>MG227005 representing NM_008623
Red=Cloning site Green=Tags(s)

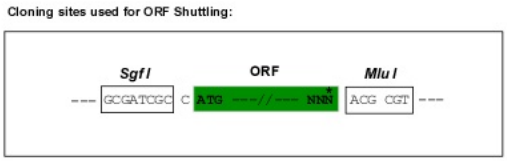
MAPGAPSSSPSPILAALLFSSLVLSPALAIVVYTDREIYGAVGSQVTLHCSFWSSEWVSDDISFTWRYQP
EGGRDAISIFHYAKGQPYIDEVGTFKERIQWVGDPRWKDGSIVIHNLDYSDNGTFTCDVKNPPDIVGKTS
QVTLYVFEKVPTRYGVVLGAVIGGILGVVLLLLLLFYLIRYCWLRRQAALQRRLSAMEKGRFHKSSKDSS
KRGRQTPVLYAMLDHSRSTKAASEKKSKGLGESRKDKK

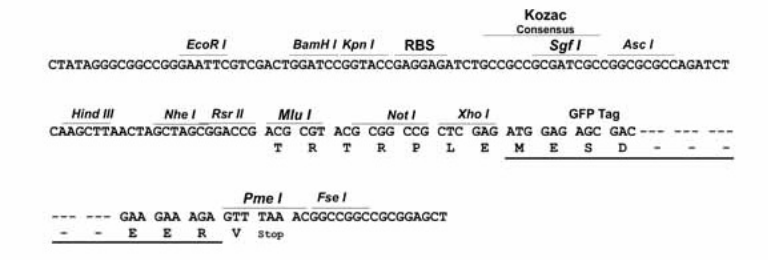
TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja1823_e11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:





ACCN: NM_008623

ORF Size: 744 bp

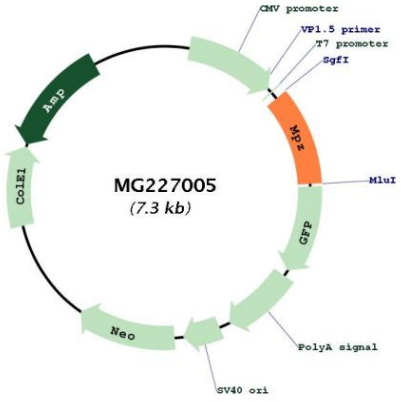
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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_008623.5, NP_032649.2
RefSeq Size:	1993 bp
RefSeq ORF:	747 bp
Locus ID:	17528
UniProt ID:	P27573
Cytogenetics:	1 79.05 cM
Gene Summary:	This gene is specifically expressed in Schwann cells of the peripheral nervous system and encodes a type I transmembrane glycoprotein that is a major structural protein of the peripheral myelin sheath. The encoded protein contains a large hydrophobic extracellular domain and a smaller basic intracellular domain, which are essential for the formation and stabilization of the multilamellar structure of the compact myelin. Mutations in the orthologous gene in human are associated with myelinating neuropathies. A recent study showed that two isoforms are produced from the same mRNA by use of alternative in-frame translation termination codons via a stop codon readthrough mechanism. Alternatively spliced transcript variants have also been found for this gene. [provided by RefSeq, Oct 2015]

Product images:



Circular map for MG227005