

Product datasheet for **MC208973**

Mpz (NM_008623) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mpz (NM_008623) Mouse Untagged Clone
Tag: Tag Free
Symbol: Mpz
Synonyms: M; Mpp; P; P-zero; P0
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC208973 representing NM_008623
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTCCCGGGGCTCCCTCCTCCAGCCCCAGCCCTATCCTGGCTGCCCTGCTTCTCTCTTTGGTGC
TCTCTCCAGCCCTGGCCATTGTGGTTTACACGGACAGGAAATCTATGGTGCCGTGGGCTCCAGGTGAC
CCTGCACTGCTCCTTCTGGTCCAGTGAATGGGTCTCAGATGACATCTCTTTACCTGGCGCTACCAGCCT
GAAGGGGGCCGAGATGCCATTCGATCTCCACTATGCCAAGGGACAACCTTACATCGATGAGGTGGGGA
CCTTCAAAGAGCGCATCCAGTGGGTAGGGGACCCTCGCTGGAAGGATGGCTCCATTGTCATACACAACT
AGACTACAGTGACAACGGCACTTTCACATGTGATGTCAAAAACCCACGGACATAGTGGGCAAGACCTCT
CAGGTCACGCTCTATGTCTTTGAAAAAGTCCCACTAGGTATGGGGTGGTGTGGGAGCAGTGATCGGGG
GCATCCTCGGGGTGGTGTGCTGTTGCTGCTGTTGCTCTTCTACCTGATTCGGTACTGCTGGCTGCGCAGGCA
GGCTGCCCTGCAGAGAAGGCTCAGTGCCATGGAGAAGGGGAGATTCACAAATCTCGAAGGACTCCTCG
AAGCGAGGGCGGCAGACGCCAGTGTGTATGCCATGCTGGACCAGCCGAAGCACCAAAGCTGCCAGTG
AGAAGAAATCAAAGGGCTGGGGAGTCTCGCAAGGATAAGAAATAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI
ACCN: NM_008623
Insert Size: 747 bp



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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](#)

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: 2018 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]

Transcript Variant: This variant (2) has additional 5' non-coding exons compared to variant 1. Variants 1 and 2 encode the same isoform (MPZ). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.