

Product datasheet for MR227005

Mpz (NM_008623) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Mpz (NM_008623) Mouse Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Mpz
 Synonyms: M; Mpp; P; P-zero; P0
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >MR227005 representing NM_008623
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTCCCGGGGCTCCCTCCTCCAGCCCCAGCCCTATCCTGGCTGCCCTGCTCTTCTTTGGTGC
 TCTCTCCAGCCCTGGCCATTGTGGTTTACACGGACAGGAAATCTATGGTGCCGTGGGCTCCAGGTGAC
 CCTGCACTGCTCCTTCTGGTCCAGTGAATGGGTCTCAGATGACATCTCTTTACCTGGCGCTACCAGCCT
 GAAGGGGGCCGAGATGCCATTTGATCTTCCACTATGCCAAGGGACAACCTTACATCGATGAGGTGGGA
 CCTTCAAAGAGCGCATCCAGTGGGTAGGGGACCCTCGCTGGAAGGATGGCTCCATTGTCATACACAACCT
 AGACTACAGTGACAACGGCACTTTCACATGTGATGTCAAAAACCCACCGACATAGTGGGCAAGACCTCT
 CAGGTCACGCTCTATGTCTTTGAAAAGTGCCCACTAGGTATGGGGTGGTGTGGGAGCAGTGATCGGGG
 GCATCCTCGGGGTGGTGTGCTGCTGTTGCTCTTCTACCTGATTCCGGTACTGCTGGCTGCGCAGGCA
 GGCTGCCCTGCAGAGAAGGCTCAGTGCCATGGAGAAGGGGAGATTTACAAAATCTTGAAGGACTCCTCG
 AAGCGAGGGCGGCAGACGCCAGTGTGTATGCCATGCTGGACCACAGCCGAAGCACAAAGCTGCCAGTG
 AGAAGAAATCAAAGGGCTGGGGAGTCTCGCAAGGATAAGAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR227005 representing NM_008623
Red=Cloning site Green=Tags(s)

MAPGAPSSSPSPILAALLFSSLVLSPALAIVVYTDREIYGAVGSQVTLHCSFWSSEWVSDDISFTWRYQP
 EGGRDAISIFHYAKGQPYIDEVGTFKERIQWVGDPWRKDGSIHNLVDYSDNGTFTCDVKNPPDIVGKTS
 QVTLYVFEKVPTRYGVVLGAVIGGILGVLLLLLLFYLIKYCWLRRQAALQRRLSAMEKGRFHKSSKSS
 KRGRQTPVLYAMLDHSRSTKAASEKSKGLGESRKDKK

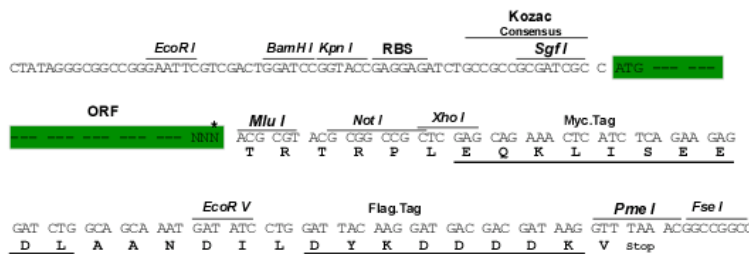
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9024_d12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_008623

ORF Size: 744 bp

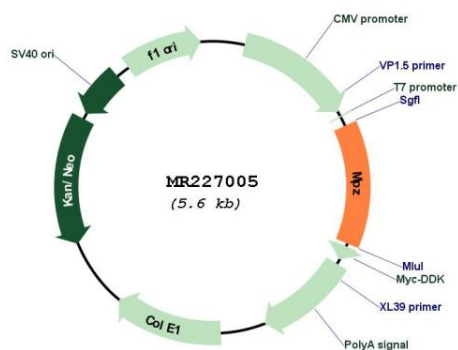
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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:	<ol style="list-style-type: none">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:	<u>NM_008623.5, NP_032649.2</u>
RefSeq Size:	1993 bp
RefSeq ORF:	747 bp
Locus ID:	17528
UniProt ID:	<u>P27573</u>
Cytogenetics:	1 79.05 cM
MW:	28.1 kDa
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 MR227005