

Product datasheet for **RR204943**

Mpz (NM_017027) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mpz (NM_017027) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Mpz
Synonyms: MPP; P0
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR204943 representing NM_017027
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCTGGGGCTCCCTCATCCAGCCCCAGCCCTATCCTGGCTGCCCTGCTCTTCTCTTTGGTGC
TGTCCTCCCAACCTGGCCATTGTGGTTTACACGGACAGGAAGTCTATGGTGCTGTGCGCTCCAGGTCAC
CCTGCACTGCTCCTTCTGGTCCAGTGAATGGGTCTCAGATGACATCTCTTTACCTGGCGCTACCAGCCT
GAAGGAGGCCGAGATGCCATTTCAATCTTCCACTATGCCAAGGGTCAACCTTACATCGATGAGGTGGGGA
CCTTCAAGGAGCGCATCCAGTGGGTAGGGGACCCTAGCTGGAAGGATGGCTCCATTGTCATACACAACT
AGACTACAGTGACAACGGCACTTTCACATGTGATGTCAAAAACCCACCGGACATAGTGGCAAGACGTCT
CAGGTCACGCTCTATGTCTTTGAAAAAGTCCCACTAGGTATGGGGTGGTGTGGGAGCCGTGATCGGTG
GCATCCTCGGGTGGTGTGCTGTTGCTGCTGTTGCTCTTCTACCTGATCCGGTACTGCTGGCTGCGCAGGCA
GGCTGCCCTGCAGAGGAGGCTCAGTGCCATGGAGAAGGGGAAATTTACAAGTCTTCTAAGGACTCCTCG
AAGCGCGGGCGGCAGACCCAGTGTGTATGCCATGCTGGACCACAGCCGAAGCACCAAGCTGCCAGTG
AGAAGAAATCTAAAGGGCTGGGGAGTCTCGCAAGGATAAGAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR204943 representing NM_017027
Red=Cloning site Green=Tags(s)

MAPGAPSSSPSPILAALLFSSLVLSPTLAIVVYTDREYVAVRSQVTLHCSFWSSEWVSDDISFTWRYQP
 EGGRDAISIFHYAKGQPYIDEVGTFKERIQWVGDPSPWKDGSIVIHNLDYSDNGTFTCDVKNPPDIVGKTS
 QVTLYVFEKVPTRYGVVLGAVIGGILGVLLLLLLLLFYLIKYCWLRRQAALQRRLSAMEKGFHKSSKSS
 KRGRQTPVLYAMLDRSRSTKAASEKSKGLGESRKDKK

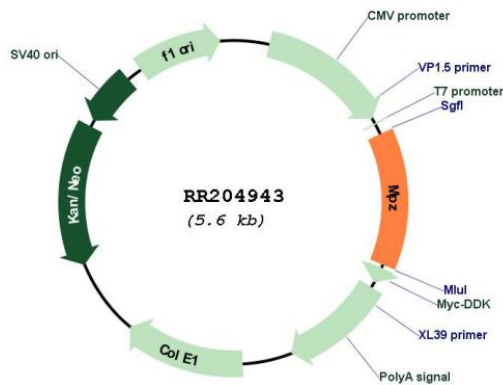
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_017027
ORF Size: 744 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).
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:	NM_017027.1 , NP_058723.1
RefSeq Size:	1029 bp
RefSeq ORF:	747 bp
Locus ID:	24564
UniProt ID:	P06907
Cytogenetics:	13q24
MW:	27.7 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. [provided by RefSeq, Oct 2015]