

## Product datasheet for **MG216313**

### MpzII (NM\_001083897) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	MpzII
Synonyms:	I110007A10Rik; PZR
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

**ORF Nucleotide Sequence:** >MG216313 representing NM\_001083897  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGCAGAGGCCGTCGGAGCCGTGGCACTGATTGCGGCCCGGCCCGCGCTGGCTGTGGTCGGTGC  
TAGCCGCGATGCTCGGGCTGTTGACAGCTAGAATATCAGCCTTGGAGGTCCATACTCCTAAAGAAATCTT  
TGTGGTGAATGGGACACAAGGGAAGCTGACTTGCACATTCGATTCTCTAACACAACCTGGATGGTTGACC  
ACGGTCTCCTGGAGCTCCAGCCAGACGGCACCAGCAGCCCGTGTCTTTTTCCACTACTCACAAGGAC  
AGGTGTACATTGGGGATTATCCACATTTAAAGACCGAGTCACCTGGGCTGGGGACCTTGACAAGAAAGA  
TGCATCAATCAATATAGAAAATATTCAGGCTGTTCAATGGCACCTATATCTGCGATGTCAAAAATCCT  
CCTGACATTGTTGTGCGGCCTGGACACATTAGGCTCCACGTGGTGGAAATAGACAACCTGTTGGTGTCC  
TGTTTGGGTGGTGGGCACTGTCCTGCTGTGGTCTTGGCCTCAGTCTGCTCATCAGCTTGGTCTC  
GGTCGTCTCTACAGAAGGAAACATTCGAAGCGGGATTATACCGGCTGCAGTACCTCAGAGCGTTTGTCA  
CCAGTTAAGCAGGCTCCACGGAAGTGTCCCTCCGACACAGAGGGTCTAGTAAAGAGTCCGCCTCCGCCG  
GATCTCACCAGGGCCAGTCAATTCACGACAGTTAGACCACTCTGGCGGACACCACAGCGGCAAGATTA  
TAAGTCAGAGTCGGTTGTGTATGCGGACATCCGAAAGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



**Protein Sequence:** >MG216313 representing NM\_001083897  
 Red=Cloning site Green=Tags(s)

MAEAVGAVALIAAPARRRWLWSVLAAMLGLLTARISALEVHTPKEIFVVNGTQGKLTCTFDSPNTTGWL  
 TVSWSFQPDGTDASVSFFHYSQGQVYIGDYPPFKDRVTWAGLDKDKDASINIENIQAVHNGTYICDVKNP  
 PDIIVVRPGHIRLHVVEIDNLLVFLVWVVGTAVVLGLTLLISLVLVLYRRKHSKRDYTCGSTSERLS  
 PVKQAPRKCPSDTEGLVKSPSAGSHQGPVIYAQLDHSGGHHSGKINKSESVVYADIRKD

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001083897

**ORF Size:** 810 bp

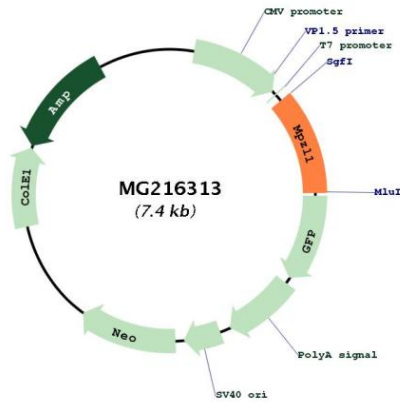
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_001083897.1</a> , <a href="#">NP_001077366.1</a>
<b>RefSeq Size:</b>	2356 bp
<b>RefSeq ORF:</b>	813 bp
<b>Locus ID:</b>	68481
<b>UniProt ID:</b>	<a href="#">Q3TEW6</a>
<b>Cytogenetics:</b>	1 H2.3
<b>Gene Summary:</b>	<p>Cell surface receptor, which is involved in signal transduction processes. Recruits PTPN11/SHP-2 to the cell membrane and is a putative substrate of PTPN11/SHP-2. Is a major receptor for concanavalin-A (ConA) and is involved in cellular signaling induced by ConA, which probably includes Src family tyrosine-protein kinases. Isoform 2 seems to have a dominant negative role; it blocks tyrosine phosphorylation of MPZL1 induced by ConA. Isoform 1, but not isoform 2, may be involved in regulation of integrin-mediated cell motility (By similarity). [UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for MG216313