

## Product datasheet for **MC202616**

### **Mpzl1 (NM\_001001880) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mpzl1 (NM_001001880) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mpzl1
Synonyms:	1110007A10Rik; PZR
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC072563 sequence for NM\_001001880  
 TTACCATCTGATGTGGGAGCGGGAGCGGTGGCGTGGAGGTGTCTCGCGCTCGCAGCCGCGATCCGGA  
 CAGAGCTGTGGTCTAAGGCAAGCCAGCCGACCCAGCGGGAAGCCGGGCGGAACGGAGCGGCGGGAGC  
 AGGATGGCAGAGGCCGTCGGAGCCGTGGCACTGATTGCGGCCCGGCCCGCGCGCTGGCTGTGGTCGG  
 TGCTAGCCGCGATGCTCGGGCTGTTGACAGCTAGAATATCAGCCTTGGAGGTCCATACTCCTAAAGAAAT  
 CTTTGTGGTGAATGGGACACAAGGGAAGCTGACTTGCACATTCGATTCTCCTAACACAACCTGGATGGTTG  
 ACCACGGTCTCCTGGAGTTCAGCCAGACCGCACAGCGCCGTGTGCTTTTTCCACTACTCACAAG  
 GACAGGTGTACATTGGGGATTATCCACCATTTAAAGACCGAGTCACCTGGGCTGGGGACCTTGACAAGAA  
 AGATGCATCAATCAATATAGAAAATATTAGGCTGTTCAATGGCACCTATATCTGCGATGTCAAAAAT  
 CCTCTGACATTGTTGTGCGGCCTGGACACATTAGGCTCCACGTGGTGGAAATAGACAACCTGTTGGTGT  
 TCCTGGTTTTGGTGGTGGGCACTGTCACTGCTGTGGTCTTGGCCTCACTCTGCTCATCAGCTTGGT  
 CCTGGTCGTCCTTACAGAAGGAAACATTCGAAGCGGGATTATACCGGGGCCAGTCATTTACGCACAGT  
 TAGACCACTCTGGCGGACACCACAGCGCAAGATTAATAAGTCAGAGTCGGTTGTGTATGCGGACATCCG  
 GAAAGACTAAGAGAACCCAAACATTTCCAACTGGACGCTTGTGCAGAAAATGCCATAACCGCATGT  
 GGCCTTGAGGACTCGGGCAAGGACAAGCACATGTATACTCGGAGAGAGCAGAAAATATGTATAGAGGATA  
 TGTATATTCTATTAATCTTCTGATGTGAGAGGCCAACGTTGCATGGTGAAGTGGTATGAGTCTACGTA  
 TGTGTAATTGTCTTGCTGTTTTCTGTATATTCTTTCAGAGTCATTTCTAGCTGGAAGTTTTAGAAGCAT  
 CCCGTGGTCCCATGCGTGGGATGGTTTTGCCTATTGAAGACTCTGCAGAACCGTTAGTCTTCCGACAGA  
 CGTGGCCTTTTTCATCTAAGGGCTCAACCAGTCTAAGCATTTCTTGTAGTTAGAGAGTGAGGTGTTCACT  
 GGAAGTGTGCTCTCACAGTATCAGGACCGTTTTGTTCTGTGCCCGTGTAGCTGATAGACACCGTCGGT  
 TAACCACGCCACCCGAGGACAGTCTGAGAAGTTAGTGTGATGCTTTTCTTATATGAGGGAATTTCTGAG  
 CTGAGATTGCTCTGTCCATCCTGCTATTAGCTACGATCTACAATGAGTTCTTGTGAGCGTGCAGAC  
 AGCAGAGCTGGCTGAGGCTGTGGTGTGTTAAAAGGGTACAGATTACAGAGCCCGCAGCATGACAATAGC  
 GTGTGGAAGGCAGCATCTTCTTCTCCTCTTAGGGACGCTATCAATGAACTGCACACTCTAGATAC  
 CTCTGACACCAGTTCTTTACCATCTCCTTGTGGTGTGAGACCGTGTATATGGTGTAGTCTGTG  
 GGCTTTGTTCAAATGACACCTCTTCTAAGGGCTTTCTACATCTGGCTCCATGATCTCCCTGCCAGTCA  
 GAACCAAATCCTCTGTTGGCCAAGCCAACCTTCTCCCTAGGCAGAAACCGTTGGCTGCTGGCCGGCCTT  
 CCTGGACTGAGCCTGCAGCCTGGTTCAGCTGCTCGCAGGACAGTGTGCAGGCCTCATGGCCTAACTCCA  
 CACACCACCTCCCTTGGAGTATTCGGTCTCTTCTGCAACTCTGCGTTCTGGGCTGGCTACAGATAAC  
 AGTGAGGCCACGTCAGATGGCAGACCTGTGCTCCTGTGCTTCTGAGCAGAAGATGCATTGCAATTG  
 AGAAGAGACACCTAAAAGGGATGGCTTTTGAATTCTGCTGTATTTCTCCTGGAATGTGTCCAGCT  
 GGAGAGATACCAAGTTCATTGTTACTTTTTGATATTTTCATTTGTACGTCTGTGAATATTTAATACATC  
 TTTTTCGATTTCTGAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Ascl-NotI

**ACCN:** NM\_001001880

**Insert Size:** 630 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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:** [BC072563](#), [AAH72563](#)

**RefSeq Size:** 2205 bp

**RefSeq ORF:** 630 bp

**Locus ID:** 68481

**UniProt ID:** [Q3TEW6](#)

**Cytogenetics:** 1 H2.3

**Gene Summary:** 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]

Transcript Variant: This variant (2) lacks an exon in the 3' coding region, compared to variant 1, that causes a frameshift. The resulting protein (isoform b) has a shorter and distinct C-terminus, compared to isoform a.