

## Product datasheet for MR216313

### Mpzl1 (NM\_001083897) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mpzl1 (NM_001083897) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mpzl1
Synonyms:	1110007A10Rik; PZR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR216313 representing NM_001083897 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGAGGCCGTGGAGCCGTGGCACTGATTGCGGCCCGGCCCGCCGGCGCTGGCTGTGGTCCGGTGC  
TAGCCGCGATGCTCGGGCTGTTGACAGCTAGAATATCAGCCTGGAGGTCCATACTCCTAAAGAAATCTT  
TGTGGTGAATGGGACACAAGGGAAGCTGACTTGCACATTCGATTCTCCTAACACAACCTGGATGGTTGACC  
ACGGTCTCCTGGAGCTTCAGCCAGACGGCACCAGAGCGCCGTGTCGTTTTTCCACTACTACAAGGAC  
AGGTGTACATTGGGGATTATCCACCATTAAAGACCGAGTCACCTGGGCTGGGGACCTTGACAAGAAAGA  
TGCATCAATCAATATAGAAAATATTAGGCTGTTCAATGGCACCTATATCTGGGATGTCAAAAATCCT  
CCTGACATTGTTGTGCGCCTGGACACATTAGGCTCCACGTGGTGGAAATAGACAACCTGTTGGTGTTC  
TGGTTTGGGTGGTGGTGGCACTGTCACTGCTGTGGTCTTGGCCTCACTCTGCTCATCAGCTTGGTCTT  
GGTCGCTCTACAGAAGGAAACATTCGAAGCGGGATTATACCGCTGCAGTACCTCAGAGCGTTTGTCA  
CCAGTTAAGCAGGCTCCACGGAAGTGTCCCTCCGACACAGAGGTCTAGTAAAGAGTCCGCTTCCGCCG  
GATCTCACCAGGGCCAGTCATTTACGCACAGTTAGACCACTCTGGCGGACACCAGCGGCAAGATTAA  
TAAGTCAGAGTCGGTTGTGTATGCGGACATCCGAAAGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR216313 representing NM\_001083897  
Red=Cloning site Green=Tags(s)

MAEAVGAVALIAAPARRRWLWSVLAAMLGLLTARISALEVHTPKEIFVVTGQGLTCTFDSPNTTGWLT  
 TVSWSFQPDGDSAVSFFHYSQGVYIGDYPPFKDRVTWAGDLKKDASINIENIQAVHNGTYICDVKNP  
 PDIVVRPGHIRLHVVEIDNLLVFLVWVVVGTAVVLGLTLLISLVLVLYRRKHSKRDTGCASTSERLS  
 PVKQAPRKCPDTEGLVKSPPSAGSHQGPVIYAQLDHSGGHHSKINKSESVVYADIRKD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**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).

**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\\_001083897.1](#), [NP\\_001077366.1](#)

**RefSeq Size:** 2356 bp

**RefSeq ORF:** 813 bp

**Locus ID:** 68481

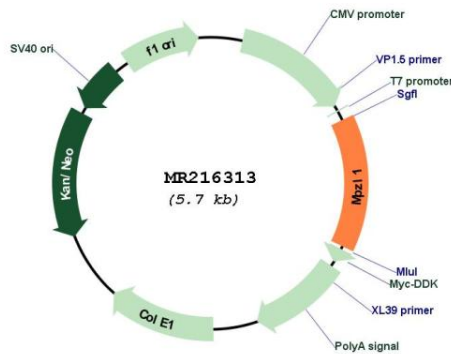
**UniProt ID:** [Q3TEW6](#)

**Cytogenetics:** 1 H2.3

**MW:** 29.9 kDa

**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]

**Product images:**



Circular map for MR216313