

Product datasheet for MR202237

Mpzl1 (NM_001001880) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mpzl1 (NM_001001880) 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: >MR202237 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCAGAGGCCGTGGAGCCGTGGCACTGATTGCGGCCCGGCCCGCCGGCGCTGGCTGTGGTCGGTGC
 TAGCCCGATGCTCGGGCTGTTGACAGCTAGAATATCAGCCTGGAGGTCCATACTCCTAAAGAAATCTT
 TGTGGTGAATGGGACACAAGGGAAGCTGACTTGCACATTCGATTCTCCTAACACAACCTGGATGGTTGACC
 ACGGTCTCCTGGAGCTTCAGCCAGACGGCACCAGCAGCGCCGTGTCGTTTTTCCACTACTACAAGGAC
 AGGTGTACATTGGGGATTATCCACCATTTAAAGACCGAGTCACCTGGGCTGGGGACCTTGACAAGAAAGA
 TGCATCAATCAATATAGAAAATATTCAGGCTGTTCAATGGCACCTATATCTGCGATGTCAAAAATCCT
 CCTGACATTGTTGTGCGCCTGGACACATTAGGCTCCACGTGGTGGAAATAGACAACCTGTTGGTGTTC
 TGGTTTGGGTGGTGGGCACTGTCACTGCTGTGGTCTTGGCCTCACTCTGCTCATCAGCTTGGTCTCT
 GGTGCTCTCTACAGAAGGAAACATTCGAAGCGGGATTATACCGGGCCAGTCATTTACGCACAGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR202237 protein sequence
 Red=Cloning site Green=Tags(s)

MAEAVGAVALIAAPARRRWLWSVLAAMLGLLTARISALEVHTPKEIFVNGTQGKLTCTFDSPNTTGWLT
 TVSWFQPDGTSVSVFFHYSQGVYIGDYPPFKDRVTWAGDLDDKASINIENIQAVHNGTYICDVKNP
 PDIVVRPGHIRLHVVEIDNLLVFLVWVVVGTAVVLGLTLLISLVLVLYRRKHSKRDTGAQSFTHS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_001001880

ORF Size: 630 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_001001880.2](#)

RefSeq Size: 2250 bp

RefSeq ORF: 630 bp

Locus ID: 68481

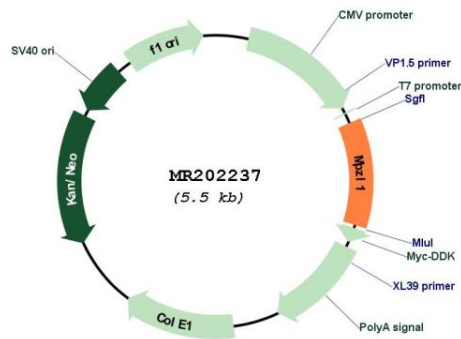
UniProt ID: [Q3TEW6](#)

Cytogenetics: 1 H2.3

MW: 23 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 MR202237