

Product datasheet for **RG222045**

MPZL (MPZL1) (NM_024569) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MPZL (MPZL1) (NM_024569) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: MPZL1
Synonyms: MPZL1b; PZR; PZR1b; PZRa; PZRb
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG222045 representing NM_024569
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGCGTCCGCCGAGCCGGGGCGGTGATTGCAGCCCCAGACAGCCGGCGCTGGCTGTGGTCCGGTGC
TGGCGGCGCGCTTGGCTCTTGACAGCTGGAGTATCAGCCTTGGAGTATATACGCCAAAAGAAATCTT
CGTGGCAAATGGTACACAAGGGAAGCTGACCTGCAAGTTCAAGTCTACTAGTACGACTGGCGGTTGACC
TCAGTCTCCTGGAGCTTCCAGCCAGAGGGGCCGACACTACTGTGTCGTTTTTCCACTACTCCCAAGGGC
AAGTGTACCTTGGGAATTATCCACCATTTAAAGACAGAATCAGCTGGGCTGGAGACCTTGACAAGAAAGA
TGCATCAATCAACATAGAAAATATGCAGTTTATACACAATGGCACCTATATCTGTGATGTCAAAAACCTT
CCTGACATCGTTGTCCAGCCTGGACACATTAGGCTCTATGTCGTAGAAAAAGAGAATTTGCTGTGTTTC
CAGTTTGGGTAGTGGTGGGCATAGTTACTGCTGTGGTCTAGGCTCACTCTGCTCATCAGCATGATTCT
GGCTGTCTCTATAGAAGGAAAACCTCTAAACGGGATTACACTGGGGCCAGTCATATATGCACAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG222045 representing NM_024569
Red=Cloning site Green=Tags(s)

MAASAGAGAVIAAPDSRRWLWSVLAALGLLTAGVSALEVYTPKEIFVANGTQGKLTCKFKSTSTTGGLT
SVSWFQPEGADTTVSFFHYSQGVYLGNYPPFKDRISWAGDLDDKDDASINIENMQFIHNGTYICDVKNP
PDIVVQPGHIRLYVVEKENLPVFPVWVVVGIIVAVVLGLTLLISMILAVLYRRKNSKRDTGAQSYMHS

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

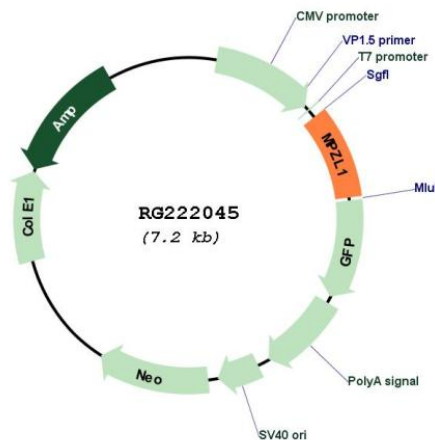


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Cloning Scheme:



Plasmid Map:



ACCN: NM_024569

ORF Size: 627 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_024569.5](#)

RefSeq Size: 4923 bp

RefSeq ORF: 630 bp

Locus ID: 9019

UniProt ID: [O95297](#)

Cytogenetics: 1q24.2

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Cell adhesion molecules (CAMs)

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 3 seems to have a dominant negative role; it blocks tyrosine phosphorylation of MPZL1 induced by ConA. Isoform 1, but not isoform 2 and isoform 3, may be involved in regulation of integrin-mediated cell motility.[UniProtKB/Swiss-Prot Function]