

## Product datasheet for **RG228059**

### MPZL (MPZL1) (NM\_001146191) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MPZL (MPZL1) (NM\_001146191) 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:** >RG228059 representing NM\_001146191  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCAGCGTCCGCCGGAGCCGGGGCGGTGATTGCAGCCCCAGACAGCCGGCGCTGGCTGTGGTCGGTGC  
 TGGCGCGCGCTTGGGCTCTTGACAGCTGGAGTATCAGCCTTGGAAATATACGCCAAAAGAAATCTT  
 CGTGGCAAATGGTACACAAGGGAAGCTGACCTGCAAGTCAAGTCTACTAGTACGACTGGCGGTTGACC  
 TCAGTCTCCTGGAGCTTCCAGCCAGAGGGGCCGACACTACTGTGTGGGCCAGTCATATATGCACAGT  
 TAGACCACTCCGGCGGACATCACAGTGACAAGATTAACAAGTCAGAGTCTGTGGTATGCGGATATCCG  
 AAAGAAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG228059 representing NM\_001146191  
 Red=Cloning site Green=Tags(s)

MAASAGAGAVIAAPDSRRWLWSVLAALGLLTAGVSALEVYTPKEIFVANGTQGKLTCKFKSTSTTGGLT  
 SVSWSFQPEGADTTVSGPVIYAQLDHSGGHSDKINKSESVVYADIRKN

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

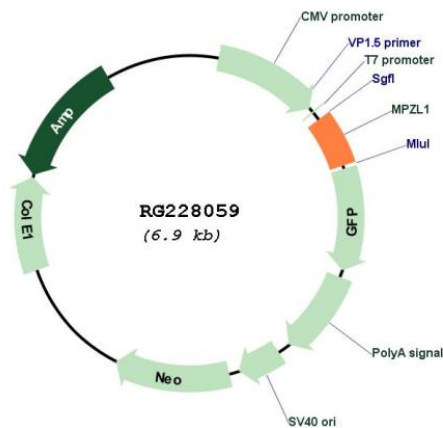


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_001146191

ORF Size: 357 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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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>RefSeq:</b>	<a href="#">NM_001146191.2</a>
<b>RefSeq Size:</b>	4576 bp
<b>RefSeq ORF:</b>	360 bp
<b>Locus ID:</b>	9019
<b>UniProt ID:</b>	<a href="#">O95297</a>
<b>Cytogenetics:</b>	1q24.2
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Cell adhesion molecules (CAMs)
<b>Gene Summary:</b>	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]