

## Product datasheet for **SC127691**

### MPZL (MPZL1) (NM\_003953) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MPZL (MPZL1) (NM_003953) Human Untagged Clone
Tag:	Tag Free
Symbol:	MPZL
Synonyms:	MPZL1b; PZR; PZR1b; PZRα; PZRb
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_003953, the custom clone sequence may differ by one or more nucleotides

ATGGCAGCGTCCGCCGAGCCGGGGCGGTGATTGCAGCCCCAGACAGCCGGCGCTGGCTGTGGTCGGTGC  
 TGGCGGCGGCGCTTGGGCTCTTGACAGCTGGAGTATCAGCCTTGAAGTATATACGCCAAAGAAATCTT  
 CGTGGCAAATGGTACACAAGGGAAGCTGACCTGCAAGTTCAGTCTACTAGTACGACTGGCGGGTTGACC  
 TCAGTCTCCTGGAGCTTCCAGCCAGAGGGGGCCGACACTACTGTGTCGTTTTTCCACTACTCCCAAGGGC  
 AAGTGTACCTTGGGAATTATCCACCATTTAAAGACAGAATCAGCTGGGCTGGAGACCTTGACAAGAAAGA  
 TGCATCAATCAACATAGAAAATATGCAGTTTATACACAATGGCACCTATATCTGTGATGTCAAAAACCTT  
 CCTGACATCGTTGTCCAGCCTGGACACATTAGGCTCTATGTCGTAGAAAAGAGAATTTGCCTGTGTTTC  
 CAGTTTGGGTAGTGGTGGGCATAGTTACTGCTGTGGTCTAGGTCTCACTCTGCTCATCAGCATGATTCT  
 GGCTGTCTCTATAGAAGGAAAACTCTAAACGGGATTACACTGGCTGCAGTACATCAGAGATTTGTCA  
 CCAGTTAAGCAGGCTCCTCGGAAGTCCCCCTCCGACACTGAGGGTCTTGTAAGAGTCTGCCTTCTGGAT  
 CTCACCAGGGCCAGTCATATGCACAGTTAGACCACTCCGGCGGACATCACAGTGACAAGATTAACAA  
 GTCAGAGTCTGTGGTGTATGCGGATATCCGAAAGAATTAA

Restriction Sites:	NotI-NotI
ACCN:	NM_003953
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).


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<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>	<u>NM_003953.4, NP_003944.1</u>
<b>RefSeq Size:</b>	3898 bp
<b>RefSeq ORF:</b>	810 bp
<b>Locus ID:</b>	9019
<b>UniProt ID:</b>	<u>O95297</u>
<b>Cytogenetics:</b>	1q24.2
<b>Domains:</b>	IGv, IG
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Cell adhesion molecules (CAMs)
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>