

Product datasheet for **SC317314**

MPZL (MPZL1) (NM_024569) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MPZL (MPZL1) (NM_024569) Human Untagged Clone
Tag:	Tag Free
Symbol:	MPZL1
Synonyms:	MPZL1b; PZR; PZR1b; PZRa; PZRb
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_024569, the custom clone sequence may differ by one or more nucleotides ATGGCAGCGTCCGCCGGAGCCGGGGCGGTGATTGCAGCCCCAGACAGCCGGCGCTGGCTG TGGTCGGTGCTGGCGGGCGCTTGGGCTCTTGACAGCTGGAGTATCAGCCTTGGAAAGTA TATACGCCAAAAGAAATCTTCGTGGCAAATGGTACACAAGGGAAGCTGACCTGCAAGTTC AAGTCTACTAGTACGACTGGCGGGTTGACCTCAGTCTCCTGGAGCTTCCAGCCAGAGGGG GCCGACACTACTGTGTCGTTTTTCCACTACTCCCAAGGGCAAGTGTACCTGGGAATTAT CCACCATTTAAAGACAGAATCAGCTGGGCTGGAGACCTTGACAAGAAAGATGCATCAATC AACATAGAAAATATGCAGTTTATACACAATGGCACCTATATCTGTGATGTCAAAAACCT CCTGACATCGTTGTCCAGCCTGGACACATTAGGCTCTATGTCGTAGAAAAGAGAATTTG CCTGTGTTTCCAGTTTGGGTAGTGGTGGGCATAGTTACTGCTGTGGTCTCCTAGGTCTCACT CTGCTCATCAGCATGATTCTGGCTGTCCTCTATAGAAGGAAAACTCTAAACGGGATTAC ACTGGGGCCAGTCATATATGCACAGT
Restriction Sites:	Please inquire
ACCN:	NM_024569
Insert Size:	4923 bp
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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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).



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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_024569.3](#), [NP_078845.3](#)

RefSeq Size: 4923 bp

RefSeq ORF: 4923 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]

Transcript Variant: This variant (2) lacks an alternate coding exon compared to variant 1, that causes a frameshift. The resulting isoform (b) is shorter and has a distinct C-terminus compared to 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.