

## Product datasheet for **MG222161**

### Ptprz1 (NM\_001081306) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ptprz1 (NM\_001081306) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Ptprz1  
**Synonyms:** AI850339; DSD-1-PG; PTPbeta; Ptprz; Ptpz; PTPzeta; R-PTP-zeta; Rptpbeta; RPTPz  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG222161 representing NM\_001081306  
Red=Cloning site Blue=ORF Green=Tags(s)

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**Protein Sequence:**

>MG222161 representing NM\_001081306  
 Red=Cloning site Green=Tags(s)

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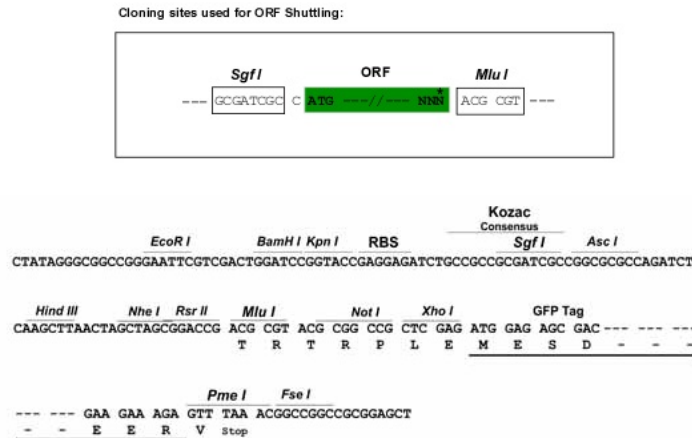
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TRTRPLE - GFP Tag - V

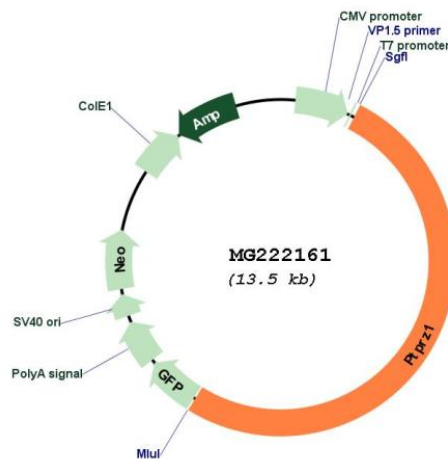
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001081306

ORF Size: 6936 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\\_001081306.1](#), [NP\\_001074775.1](#)

**RefSeq Size:** 8068 bp

**RefSeq ORF:** 6939 bp

**Locus ID:** 19283

**UniProt ID:** [B9EKR1](#)

**Cytogenetics:** 6 A3.1

**Gene Summary:** Protein tyrosine phosphatase that negatively regulates oligodendrocyte precursor proliferation in the embryonic spinal cord. Required for normal differentiation of the precursor cells into mature, fully myelinating oligodendrocytes. May play a role in protecting oligodendrocytes against apoptosis. May play a role in the establishment of contextual memory, probably via the dephosphorylation of proteins that are part of important signaling cascades.[UniProtKB/Swiss-Prot Function]