

## Product datasheet for **MG201376**

### **Ptp4a2 (NM\_008974) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ptp4a2 (NM\_008974) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Ptp4a2  
**Synonyms:** Prl-2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG201376 representing NM\_008974  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAACCGTCCAGCCCCTGTGGAGATCTTTATGAGAACATGCGTTTTCTGATAACTCACACCCACCA  
ATGCGACTCTCAACAAGTTCACAGAGGAACCTAAGAAGTACGGAGTGACAACCTTTGGTTCGAGTTTGTGA  
TGCTACATATGATAAAGCTCCAGTTGAAAAGAAGGAATCCACGTTCTAGATTGGCCGTTTGATGATGGA  
GCTCCACCCCTAATCAGATAGTAGATGATTGGCTAAACCTGTTAAAAACCAATTCGTAAGAGCCAG  
GCTGTTGTGTCAGTGCATTGTGTTGCAGGATTGGGAAGGGCTCCTGTGCTAGTTGCGCTGCATTGAT  
TGAATGCGGAATGAAGTATGAAGATGCTGTTCAATTTATAAGACAAAAAGAAGAGGAGCATTCAATTCC  
AAACAGCTGCTTTACTTGAGAAGTACCGACCTAAGATGCGGTTACGCTTCAGAGATACCAATGGGCACT  
GCTGTGTTGAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG201376 representing NM\_008974  
Red=Cloning site Green=Tags(s)

MNRPAPVEISYENMRFLITHNPTNATLNKFTTEELKKYGVTTLVVRVCDATYDKAPVEKEGIHVLDPFDDG  
APPPNQIVDDWLNLLKTKFREEPGCCVAVHCVAGLGRAPVLVALALIECGMKYEDAVQFIRQKRRGAFNS  
KQLLYLEKYRPMRLRFRDRTNGHCCVQ

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

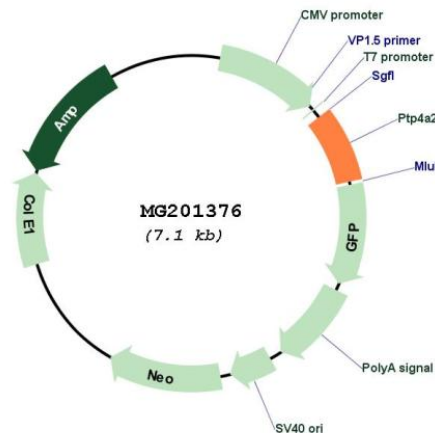


[View online >](#)

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_008974

**ORF Size:** 501 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.

<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_008974.4, NP_033000.1</u>
<b>RefSeq Size:</b>	2789 bp
<b>RefSeq ORF:</b>	504 bp
<b>Locus ID:</b>	19244
<b>UniProt ID:</b>	<u>O70274</u>
<b>Cytogenetics:</b>	4 D2.2
<b>Gene Summary:</b>	Protein tyrosine phosphatase which stimulates progression from G1 into S phase during mitosis. Inhibits geranylgeranyl transferase type II activity by blocking the association between RABGGTA and RABGGTB (By similarity).[UniProtKB/Swiss-Prot Function]