

## Product datasheet for **MG225300**

### **Ptp4a3 (NM\_001166388) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ptp4a3 (NM\_001166388) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Ptp4a3  
**Synonyms:** AV088979; pPtp4a3; Prl-3  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG225300 representing NM\_001166388  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCCCGATGAACCGGCTGCGCCTGTGGAGGTGAGCTACCGGCACATGCGCTTCTCATCACCCACA  
 ACCCCAGCAATGCCACCCTCAGCACGTTTCATCGAGGACCTGAAGAAGTACGGGGCTACCACTGTGGTGCG  
 CGTGTGTGAAGTGACCTATGACAAGACCCCTGGAGAAGGACGGCATCACTGTTGTGGACTGGCCCTTT  
 GATGATGGAGCGCCCCCTCTGGCAAAGTGGTAGAGGACTGGCTGAGCCTGCTGAAGGCCAAGTTCTACA  
 ATGACCCGGGAAGCTGCGTAGCTGTGCACTGTGTGGCGGGCCTGGGAAGGGCCCCAGTCTCGTGGCTCT  
 CGCCCTCATCGAGAGCGGGATGAAGTACGAGGACGCCATCCAGTTCATCCGACAGAAGCGCGTGGGGCC  
 ATCAACAGCAAGCAGCTCACCTACCTGGAGAAGTACCGGCTAAGCAGAGACTGAGGTTCAAAGACCCAC  
 ACACGCACAAGACCAGATGCTGCGTCATG

**ACGCGT**ACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG225300 representing NM\_001166388  
 Red=Cloning site Green=Tags(s)

MARMNRPAPVEVSYRHMFLITHNPSNATLSTFIEDLKKYGATTVVRVCEVTYDKTPLEKDGITVVDWPF  
 DDGAPPPGKVVEDWLSLLKAKFYNDPGSCVAVHCVAGLGRAPVLVALALIESGMKYEDAIIQFIRQKRRGA  
 INSKQLTYLEKYRKPQRLRFKDPHTHKTRCCVM

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

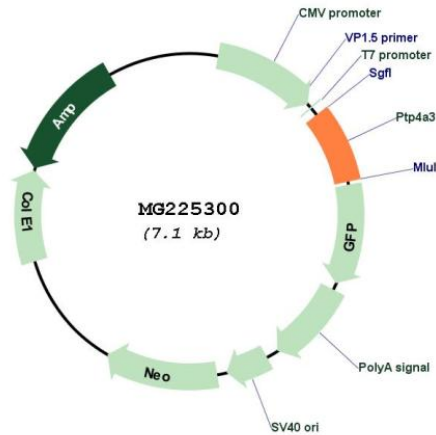


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**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001166388

**ORF Size:** 519 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_001166388.1, NP_001159860.1</u>
<b>RefSeq Size:</b>	3808 bp
<b>RefSeq ORF:</b>	522 bp
<b>Locus ID:</b>	19245
<b>UniProt ID:</b>	<u>Q9D658</u>
<b>Cytogenetics:</b>	15 D3
<b>Gene Summary:</b>	Protein tyrosine phosphatase which stimulates progression from G1 into S phase during mitosis. Enhances cell proliferation, cell motility and invasive activity, and promotes cancer metastasis. May be involved in the progression of cardiac hypertrophy by inhibiting intracellular calcium mobilization in response to angiotensin II.[UniProtKB/Swiss-Prot Function]