

Product datasheet for **MR225305**

Ptp4a3 (NM_001166390) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ptp4a3 (NM_001166390) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ptp4a3
Synonyms: AV088979; pPtp4a3; Prl-3
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR225305 representing NM_001166390
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGTCCGGCATCTGCAAGTGTCTGAAGCATTGGCTGAAACCTTCAGGACCTGAAGAAGTACGGGGCTA
CCACTGTGGTGC CGTGTGTGAAGTGACCTATGACAAGACCCCTGGAGAAGGACGGCATCACTGTTGT
GGACTGGCCCTTTGATGATGGAGCGCCCTCCTGGCAAAGTGGTAGAGGACTGGCTGAGCTGCTGAAG
GCCAAGTTCTACAATGACCCGGGAAGCTGCGTAGCTGTGCACTGTGTGGCGGGCCTGGGAAGGGCCCCAG
TGCTCGTGGCTCTCGCCCTCATCGAGAGCGGGATGAAGTACGAGGACGCCATCCAGTTCATCCGACAGAA
GCGCCGTGGGGCCATCAACAGCAAGCAGCTCACCTACCTGGAGAAGTACCGGCCTAAGCAGAGACTGAGG
TTCAAAGACCCACACACGCACAAGACCAGATGCTGCGTCATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR225305 representing NM_001166390
Red=Cloning site Green=Tags(s)

MVRHLQVSEALAGNLQDLKKYGATTVVRVCEVTYDKTPLEKDGITVVDWPFDDGAPPPGKVVEDWLSLLK
AKFYNDPGSCVAVHCVAGLGRAPVLVALALIESGMKYEDAIQFIRQKRRGAINSKQLTYLEKYRPKQRLR
FKDPHCHKTRCCVM

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

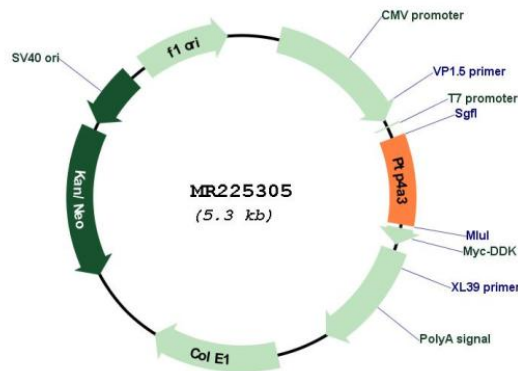
Restriction Sites: SgfI-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_001166390

ORF Size: 462 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.

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| 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: | <ol style="list-style-type: none">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: | <u>NM_001166390.1, NP_001159862.1</u> |
| RefSeq Size: | 2640 bp |
| RefSeq ORF: | 465 bp |
| Locus ID: | 19245 |
| UniProt ID: | <u>Q9D658</u> |
| Cytogenetics: | 15 D3 |
| MW: | 17.8 kDa |
| Gene Summary: | 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] |