

Product datasheet for MR201490

Ptp4a3 (NM_001166389) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ptp4a3 (NM_001166389) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ptp4a3
Synonyms: AV088979; pPtp4a3; Prl-3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR201490 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCCGCATGAACCGGCCTGCGCCTGTGGAGGTGAGCTACCGGCACATGCGCTTCTCATCACCCACA
 ACCCCAGCAATGCCACCCTCAGCACGTTTCGAGGACCTGAAGAAGTACGGGGTACCCTGTGGTGCG
 CGTGTGTGAAGTGACCTATGACAAGACCCCTGGAGAAGGACGGCATCACTGTTGTGGACTGGCCCTT
 GATGATGGAGCGCCCTCCTGGCAAAGTGTAGAGGACTGGCTGAGCCTGCTGAAGGCCAAGTTCTACA
 ATGACCCGGGAAGCTGCGTAGCTGTGCACTGTGTGGCGGGCCTGGGAAGGGCCCAAGTCTGCTGGCTCT
 CGCCCTCATCGAGAGCGGGATGAAGTACGAGGACGCCATCCAGTTCATCCGACAGAAGCGCGTGGGGCC
 ATCAACAGCAAGCAGCTCACCTACCTGGAGAAGTACCGGCTAAGCAGAGACTGAGGTTCAAAGACCCAC
 ACACGCACAAGACCAGATGCTGCGTCATG

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201490 protein sequence
 Red=Cloning site Green=Tags(s)

MARMNRPAPVEVSYRHMRFILITHNPSNATLSTFIEDLKKYGATTVVRVCEVTYDKTPLEKDGITVVDWPF
 DDGAPPGKVVEDWLSLLKAKFYNDPGSCVAVHCVAGLGRAPVLVALALIESGMKYEDAIQFIRQKRRGA
 INSKQLTYLEKYRPKQRLRFKDPHHTKTRCCVM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:



ACCN: NM_001166389

ORF Size: 522 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_001166389.1](#), [NP_001159861.1](#)

RefSeq Size: 3539 bp

RefSeq ORF: 522 bp

Locus ID: 19245

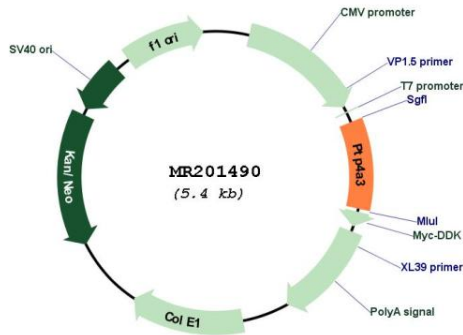
UniProt ID: [Q9D658](#)

Cytogenetics: 15 D3

MW: 19.7 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]

Product images:



Circular map for MR201490