

Product datasheet for **RG212193**

PTP4A3 (NM_032611) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PTP4A3 (NM_032611) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: PTP4A3
Synonyms: PRL-3; PRL-R; PRL3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG212193 representing NM_032611
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTCGGATGAACCGCCCGCCCGGTGGAGGTGAGCTACAAACACATGCGCTTCTCATCACCCACA
 ACCCCACCAACGCCACGCTCAGCACCTTCATTGAGGACCTGAAGAAGTACGGGGTACCCTGTGGTGCG
 TGTGTGTAAGTGACCTATGACAAAACCGCGTGGAGAAGGATGGCATCACCGTTGTGGACTGGCCGTTT
 GACGATGGGGCGCCCCCGGCAAGGTAGTGAAGACTGGCTGAGCCTGGTGAAGCCAAAGTTCTGTG
 AGGCCCCCGGCAGCTGCGTGGCTGTGCACTGCGTGGCGGGCCTGGGCCGGCTCCAGTCTTGTGGCGCT
 GGCCTTATTGAGAGCGGATGAAGTACGAGGACGCCATCCAGTTCATCCGCCAGAAGCGCCGGAGCC
 ATCAACAGCAAGCAGCTCACCTACCTGGAGAAATACCGGCCAAACAGAGGCTGCGGTTCAAAGACCCAC
 ACACGCACAAGACCCGGTGTGCGTTATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG212193 representing NM_032611
 Red=Cloning site Green=Tags(s)

MARMNRPAPVEVSYKHMFLITHNPTNATLSTFIEDLKKYGATTVVRVCEVTYDKTPLEKDGITVVDWPF
 DDGAPPPGKVVEDWLSLVKAKFCEAPGSCVAVHCVAGLGRAPVLVALALIESGMKYEDAIIQFIRQKRRGA
 INSKQLTYLEKYRPKQRLRFKDPHTHKTRCCVM

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



Cloning Scheme:



ACCN: NM_032611

ORF Size: 519 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

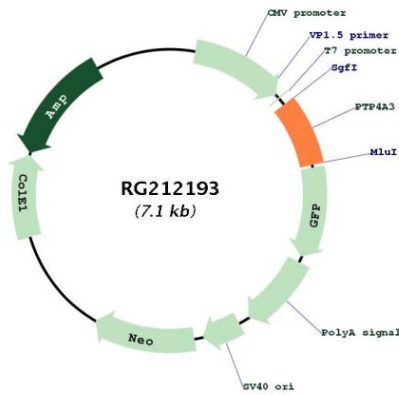
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_032611.1, NP_116000.1](#)
RefSeq Size: 1396 bp
RefSeq ORF: 522 bp
Locus ID: 11156
UniProt ID: [O75365](#)
Cytogenetics: 8q24.3
Protein Families: Druggable Genome, Phosphatase

Gene Summary: This gene encodes a member of the protein-tyrosine phosphatase family. Protein tyrosine phosphatases are cell signaling molecules that play regulatory roles in a variety of cellular processes. Studies of this class of protein tyrosine phosphatase in mice demonstrates that they are prenylated in vivo, suggesting their association with cell plasma membrane. The encoded protein may enhance cell proliferation, and overexpression of this gene has been implicated in tumor metastasis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]

Product images:



Circular map for RG212193