

Product datasheet for **RC200435**

PTP4A1 (NM_003463) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PTP4A1 (NM_003463) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PTP4A1
Synonyms: HH72; PRL-1; PRL1; PTP(CAAX1); PTPCAAX1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC200435 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCGAATGAACCGCCAGCTCCTGTGGAAGTCACATACAAGAACATGAGATTTCTTATTACACACA
ATCCAACCAATGCGACCTTAAACAAATTTATAGAGGAACCTAAGAAGTATGGAGTTACCACAATAGTAAG
AGTATGTGAAGCAACTTATGACTACTCTTGTGGAGAAAGAAGGTATCCATGTTCTTGATTGGCCTTTT
GATGATGGTGCACCACCATCAACCAGATTGTTGATGACTGGTTAAGTCTTGTGAAAATTAAGTTTCGTG
AAGAACCTGGTTGTTGTATTGCTGTTTCATTGCGTTGCAGGCCCTGGGAGAGCTCCAGTACTGTTGCCCT
AGCATTAAATGAAGGTGGAATGAAATACGAAGATGCAGTACAATTCATAAGACAAAAGCGCGTGGAGCT
TTTAACAGCAAGCAACTTCTGTATTTGGAGAAGTATCGTCCTAAAATGCGGCTGCGTTTCAAAGATTCCA
ACGGTCATAGAAACAACCTGTTGCATTCAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC200435 protein sequence
Red=Cloning site Green=Tags(s)
MARMNRPAPVEVYKMNRFILITHNPTNATLNKFI EELKKYGVTTIVRVCEATYD TTLVEKEGIHVLDPWF
DDGAPPSNQIVDDWLSLVKIKFREEPGCCIAVHCVAGLGRAPVLVALALIEGGMKYEDAVQFIRQKRRGA
FNSKQLLYLEKYRPMRLRFKDSNGHRNNCCIQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

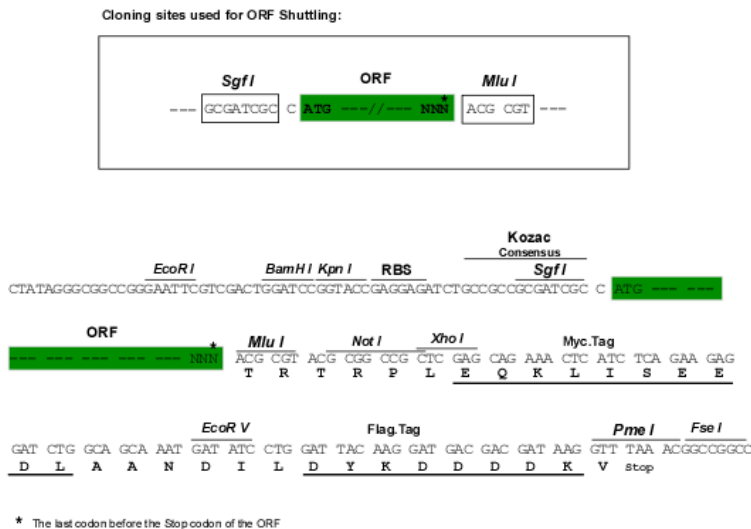
Chromatograms: https://cdn.origene.com/chromatograms/mk6429_d10.zip



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003463

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.

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_003463.4](#)

RefSeq Size: 5093 bp

RefSeq ORF: 522 bp

Locus ID: 7803

UniProt ID: [Q93096](#)

Cytogenetics: 6q12

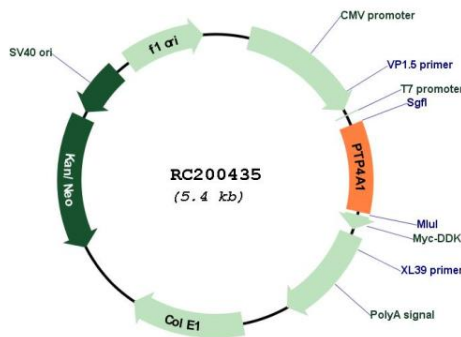
Domains: Y_phosphatase, PTPc_motif

Protein Families: Druggable Genome, Phosphatase

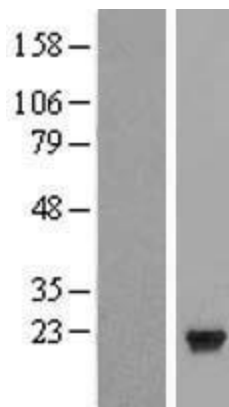
MW: 19.8 kDa

Gene Summary: This gene encodes a member of a small class of prenylated protein tyrosine phosphatases (PTPs), which contain a PTP domain and a characteristic C-terminal prenylation motif. The encoded protein is a cell signaling molecule that plays regulatory roles in a variety of cellular processes, including cell proliferation and migration. The protein may also be involved in cancer development and metastasis. This tyrosine phosphatase is a nuclear protein, but may associate with plasma membrane by means of its prenylation motif. Pseudogenes related to this gene are located on chromosomes 1, 2, 5, 7, 11 and X. [provided by RefSeq, Jun 2013]

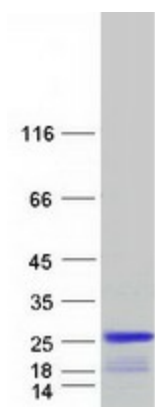
Product images:



Circular map for RC200435



Western blot validation of overexpression lysate (Cat# [LY418665]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200435 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PTP4A1 protein (Cat# [TP300435]). The protein was produced from HEK293T cells transfected with PTP4A1 cDNA clone (Cat# RC200435) using MegaTran 2.0 (Cat# [TT210002]).