

Product datasheet for **SC117949**

PTP4A1 (NM_003463) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTP4A1 (NM_003463) Human Untagged Clone
Tag:	Tag Free
Symbol:	PTP4A1
Synonyms:	HH72; PRL-1; PRL1; PTP(CAAX1); PTPCAAX1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117949 sequence for NM_003463 edited (data generated by NextGen Sequencing)

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ATGGCTCGAATGAACCGCCAGCTCCTGTGGAAGTCACATACAAGAACATGAGATTTCTT
ATTACACACAATCCAACCAATGCGACCTTAAACAAATTTATAGAGGAACTTAAGAAGTAT
GGAGTTACCACAATAGTAAGAGTATGTGAAGCAACTTATGACACTACTCTTGTGGAGAAA
GAAGGTATCCATGTTCTTGATTGGCCTTTTGATGATGGTGCACCACCATCCAACCAGATT
GTTGATGACTGGTTAAGTCTTGTGAAAATTAAGTTTCGTGAAGAACCTGGTTGTTGTATT
GCTGTTTCATTGCGTTGCAGGCCTTGGGAGAGCTCCAGTACTTGTGCCCAGCATTAAATT
GAAGGTGGAATGAAATACGAAGATGCAGTACAATTCATAAGACAAAAGCGGCGTGGAGCT
TTTAACAGCAAGCAACTTCTGTATTTGGAGAAGTATCGTCCTAAAATGCGGCTGCGTTTC
AAAGATTCCAACGGTCATAGAAACAACCTGTTGCATTCAATAA
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Clone variation with respect to NM_003463.3



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003463 unedited
 TTTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGCGTGTATTGGCTCCTT
 CGGCTGCGGGCCGGCTCGGCTACGCGCTCTGCTCCGAGCCGCTCACTGCATGGTAGATC
 TGGTGCCCCCGCCGCGCTGCATCGCCGCCACCGCCGCTCCGCCACGACCACCGCCGCC
 TCCTGCCTGCAGCCACCGCCACCGCCTGTGTGCGCCGCGCCTCGGGACCGGCTGTATGA
 TTAGGCCACAATCTTCAATGAGTAAACATATTCCTCAATTCTGTGGTGTCTTGGTCACA
 CATTTATGGAGTTTCTGAAGGGCAGTGGAGATTACTGCCAGGCACAGCAGCAGCCTATG
 CAGACAAGTGAAGTGTAGAACTGATTACTGCTCCACCAAGAAGCCCCATAAGAGTGGT
 TATCCTGGACACAGAAGTGTGAATTGAAATCCACAGAGCATTTTACAAGAGTTCTGACC
 TGGATGGGGTAAACCTCAGTGCACCTTCTTTTCTGTTGGCCTCAGTATTACTGGATTGAAG
 AATTGCTGCTTCTGTTAGGAGTTCATTTCACTTATCATTACTTACAACCTCATACTCA
 AAGCACTGAGAATTTCAAGTGGAGTATATTGAAGTAGACTTCAGTTTCTTTCATCATT
 CTGTATTCAATNTTTTAAATTTTATAACCCTATTGAGTGTNTTTAACTAAATTAAC
 ATGGCTCGAATGAACCGCCAGCTCCTGTGGAAGTACATACAAGAACATGAGATTTCTT
 ATTACACACAATCCAACCAATGCGACCTTAAACANATTTATAGAGGAACCTNAGAAAGTA
 TGGAGNTACCACANTAGTAAGAAGTATGGTAAAAGCACTTATGACACTACTCTTGTGGAA
 AAAGAAGTATNCT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003463 unedited
 NNTTTTAGCTGNACGCGGCCGATTCTAAGATCGAGTTTTTTTTTTTTTTTTTTTTTTTT
 CACTTTTAAACAGTCTTTAATTTTCAATTCAGGTGTGAGGCACATATATACACACAAAC
 ATATTAATTTAAGGAAGCAAGAATGTAATAATTAACATGTATGGCAGACACTACTTCAT
 GTATTTTGTTTAAACTTAACTTTGAAATAACTTCATTGTTACATGTAAAAAATA
 TCATTCATTATACTTCCACTTCCCTTTAAAGTATTCTCAAATTATTTTCTGAAACTC
 CAATAAAAAGCATTCTCTCTTAATCATGGCAATGGGTCGGGTACTCATTGGTGACAAAA
 TCTGGTGACACCATCTTTTATGTTCTTTGCCATATTCTTAAATGCCTGGCAAACAGTAGA
 TATTTACCAGATGAATATGACATTAATAAATAAATTTCAAGAGATTGAGATTCTTTAGC
 CAAGTTGAGGGACTACATCATTTTGAAGCACTCTAAAAGGGGATGTGATTAAATGTGAC
 TGCATGCCTGGGCTGGCTGCTTCTAGGTATAGAGCTGTGTTAAGGCGTGGGAATAGGAGA
 GCAATGCCCTAGGAAAAGAGGGCACTAGGGGAAACAATGGTTGCAGTGCAGTGCAGAAT
 GACCAATGGCACCTACTTCCAGAGTTTTCTTCAACTAAAAAGAGATGGCATTTTCTTAT
 GATTCAGTAACCGCATTACTTACATCAACATTATGGNTTGCTATAGACAAGCCTAGGTAG
 CTAGCCTCTATTTACATCATCCCACTAAGGGTATCCAAACCAAGTAACCAAATTTAGAA
 CACTATCAGATAGTTTCTGCATTCAAGATTCAACTCATAACTCTTTGACTCCTATTANA
 TTAGGAC

Restriction Sites:

NotI-NotI

ACCN:

NM_003463

Insert Size:

2000 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_003463.3](#), [NP_003454.1](#)

RefSeq Size: 5099 bp

RefSeq ORF: 522 bp

Locus ID: 7803

UniProt ID: [Q93096](#)

Cytogenetics: 6q12

Domains: Y_phosphatase, PTPc_motif

Protein Families: Druggable Genome, Phosphatase

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]