

Product datasheet for SC324492

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_003463.3
 CCCCCGCCGCGCTGCATCGCCGCCACCGCCGCTCCGCCACGACCACCGCCGCTCCTG
 CCCTGCAGCCACCGCCACCGCCCTGTGTGCCGCCGCGCTCGGGACCGGCTGTATGATTAG
 CCACAATCTTCAATGAGTAAACATATTCCTCAATTCTGTGGTGTCTTGGTCACACATTT
 ATGGAGTTTCTGAAGGGCAGTGGAGATTACTGCCAGGCACAGCAGCAGCTCTATGCAGAC
 AAGTGAAGTGTAGAACTGATTACTGCTCCACCAAGAAGCCCCATAAGAGTGGTATCC
 TGGACACAGAAGTGTGAATTGAAATCCACAGAGCATTTTACAAGAGTTCTGACCTGGAT
 GGGGTAACCTCAGTGCACCTTTTTCTGTTGGCCTCAGTATTACTGGATTGAAGAATTG
 CTGCTTCTGTTAGGAGTTCAATTTCACTTATCATTACTTACAACCTTCATACTCAAAGCA
 CTGAGAATTTCAAGTGGAGTATATTGAAGTAGACTTCAGTTTCTTTGCATCATTTCTGTA
 TTCAATTTTTTTAATTATTTTCAACCCCTATTGAGTGTTTTTTAACTAAATTAACATGGC
 TCGAATGAACCGCCAGCTCCTGTGGAAGTCACATACAAGAACATGAGATTTCTTATTAC
 ACACAATCCAACCAATGCGACCTTAAACAAATTTATAGAGGAACTTAAGAAGTATGGAGT
 TACCACAATAGTAAGAGTATGTGAAGCAACTTATGACACTACTCTTGTGGAGAAAGAAGG
 TATCCATGTTCTTGATTGGCCTTTTGTGATGGTGCACCACCATCCAACCAGATTGTTGA
 TGACTGGTTAAGTCTTGTGAAAATTAAGTTTCGTGAAGAACCTGGTTGTTGTATTGCTGT
 TCATTGCGTTGCAGGCCCTGGGAGAGCTCCAGTACTTGTGCCCTAGCATTAAATGAAGG
 TGGAAATGAAATACGAAGATGCAGTACAATTCATAAGACAAAAGCGGCGTGGAGCTTTTAA
 CAGCAAGCAACTTCTGTATTTGGAGAAGTATCGTCCTAAAATGCGGCTGCGTTTCAAAGA
 TTCCAACGGTCATAGAAACAACCTGTTGCATTCAATAAAAATGGGGTGCCCTAATGCTACTG
 GAAGTGGAACTTGAGATAGGGCCTAATTTGTTATACATATTAGCCAACATGTTGGCTTAG
 TAAGTCTAATGAAGCTTCCATAGGAGTATTGAAAGGCAGTTTTACCAGGCCTCAAGCTAG
 ACAGATTTGGCAACCTCTGTATTTGGGTTACAGTCAACCTATTTGGATACTTGGCAAAAAG
 ATTCTTGCTGTCAGCATATAAATGTGCTTGTCAATTTGTATCAATTGACCTTTCCCAA
 TCATGCAGTATTGAGTTATGACTTGTTAAATCTATCCCATGCCAGAATCTTATCAATAC
 ATAAGAAATTTAGGAAGATTAGGTGCCAAAATACCCAGCACAATACTTGTATATTTTTAG
 TACCATACAGAAGTAAAATCCCAGGAATATGAACACTAGACCTTATGTGGTTTATTCCT



[View online »](#)

TCAATCATTTCAAACATTGAAAGTAGGGCCTACATGGTTATTTGCCTGCTCACTTTATGT
 TTACATCTCCCACATTCATACCAATATACGTCAGGTTTGCTTAACCATTGATTTTTTTTT
 TTTTTTACCAAGTCTTACAGTGATTATTTTACGTGTTCCATGTATCTCACTTTGTGCTG
 TATTAACCAACCTCCATTTTAAAAATCTACGTTGTACAGAAGCACATGTCTTTAATGTC
 TTCAGACAAAAAGCCTTACATTAATTTAATGTTGCACTCTGAGGTGCAACTAACAGG
 GAGGGCCTGAGAAAAGAATGGGAGGGGGCTATTAATTATTTTTAGCAAAATGTTGCCTTT
 GTCTTGTGCAACATGTAGAATATGCTCTTTAATTTAGTAAAAATTTTTTTAAAAAGTA
 GAGATGCTTTGTTATTGTAATCATAAACTCCTGAAATCCTTGTAATTTTTTTCCATAC
 TTATCAGAAGTGTGTTTACCAACTTATTTTTGTTTGAAGTGTGATTTTTTTTTCTTC
 CCAACCTCTCTTGCAAAAAAGAAATGGGTTTCTGCTAATGAATTGAGCAGACATCTAAT
 ATTTTATATGCCTTTTGGAGCTGTGTAACCTAATATTTGGATACTTGACAATTTGTTTTAT
 TATGTAATTGATAAAATGGTGATGTGTATTAATGTTAGTTCAACCATATATTTATACTGT
 CTGGGGATGTGTGGTTATAGTTCTGTGGGAGAAATAATTTTGTGAGTGTCCACGCTTG
 TAAAAACTTAGTGCAGAGCTGAAACATCTAAATAAATAATGACATGCATTTATCATCAT
 TGAGATTGGTTTGCTTAAATTAACCTTATTTTGTAGAAGACAAAATGAATTGCACTTCAC
 TTAATGTGTGCCTCATTTTTTACAAATAAATGAAGGATTATAAATGATGTCAGCATT
 TAGTAACTTTTAGACAAAATTTGTTAGGGTCATTCATGAAAACCTTAACTAAAAGCA
 CTTTCCATTATATACTTTTTAAAGGTCTAGATAATTTTGAACCAATTTATTATTGTGTAC
 TGAGGAGAAAATAATGTATAGTAGAGGACAGCCTTGGTTTGTAAAGCTCAGTTCCACTAGT
 TCGATGGTTTTGTGCAACTCTGAGCCTCAGTTTTCTCCTTTGCAAAATTAATAATTACATA
 CCTTTATAGATTTTGAATTAATTTAAATATTAGTATTTGGTACATGAAGGCTTAATGTT
 AAGTTTCCTTTAATGATCCACAATAATCCCTTTGATCACGTTAATCTAAATCTAGATGTC
 TTTGCTAATTTTTTTTGAATAGCAGTTATAAATGTAAAGGACTCAAAGTTTAAAGTAAAA
 AGTGATACTCCACCTTGTGTTTCAAAGAATTTAGTTCCACCTCTTCATACCAGTTTAAACA
 CTTAATATATTTTATTGGATTTTAGACAGGGCAAAGGAAGAACAGGGGCTCTGGAGGC
 CCTTGGTTATTTAAATCTTGGATTATTTGTGATAGTAATCACAATTTTTGGCTAATTTT
 TAACCTGAGGTTTTGTTTTTTTTTAAAGGAAATGCAGCCTAGTCTTGAGAACATAATTT
 TATATAATCAATTAATAATGTTAACTATTACCACACAGCCATAAAACAGCATTGCG
 TTTATTGAGAGAGAGGATGTGCCATCATGATTAATGAAAATCTTTTGTGAGTTTAAAA
 GAAATTAATTTGAGTGTGGATTGTATATATGGTGCTAAAAATAAATTAATTTACTTT
 ATAAACCTTAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_003463
- 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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]