

## Product datasheet for **SC120384**

### PTP4A2 (NM\_080392) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PTP4A2 (NM_080392) Human Untagged Clone
Tag:	Tag Free
Symbol:	PTP4A2
Synonyms:	HH7-2; HH13; HU-PP-1; OV-1; PRL-2; PRL2; ptp-IV1a; ptp-IV1b; PTP4A; PTPCAAX2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM\_080392 edited  
TAATGTTTTCTGCTGTGAAACATTTCAAGATTTATTGATTTTTTTTTTTTCACTTTCCCA  
TCACACTCACACGCACGCTCACACTTTTTATTTGCCATAATGAACCGTCCAGCCCCTGTG  
GAGATCTCCTATGAGAACATGCGTTTTCTGATAACTCACAAACCTACCAATGCTACTCTC  
AACAAAGTTCACAGAGGAACCTAAGAAGTATGGAGTGACGACTTTGGTTCGAGTTTGAT  
GCTACATATGATAAAGCTCCAGTTGAAAAAGAAGGAATCCACGTTCTAGATTGGCCATTT  
GATGATGGAGCTCCACCCCTAATCAGATAGTAGATGATTGGTTAAACCTGTTAAAAACC  
AAATTCGTGAAGAGCCAGGTTGCTGTGTTGCAGTGCATTGTGTTGCAGGATTGGGAAGG  
GCACCTGTGCTGGTTGCACTTGCTTTGATTGAATGTGGAATGAAGTACGAAGATGCAGTT  
CAGTTTATAAGACAAAAAGAAGGGGAGCGTTCAATCCAAACAGCTGCTTTATTTGGAG  
AAATACCGACCTAAGATGCGATTACGCTTCAGAGATACCAATGGGCATTGCTGTGTTTCAG  
TAGAAGGAAATGTAAACGAAGGCTGACTTGATTGTGCCATTTAGAGGGAACCTTAATGT  
TTTCTGCTGTGAAACATTTCAAGATTTATTGATTTTTTTTTTTTCACTTTCCCATCACAC  
TCACACGCACGCTCACACTTTTTATTTGCCATAATGAACCGTCCAGCCCCTGTGGAGATC  
TCCTATGAGAACATGCGTTTTCTGATAACTCACAAACCTACCAATGCTACTCTCAACAAG  
TTCACAGAGGAACCTAAGAAGTATGGAGTGACGACTTTGGTTCGAGTTTGATGCTACA  
TATGATAAAGCTCCAGTTGAAAAAGAAGGAATCCACGTTCTAGATTGGCCATTTGATGAT  
GGAGCTCCACCCCTAATCAGATAGTAGATGATTGGTTAAACCTGTTAAAAACCAATTT  
CGTGAAGAGCCAGGTTGCTGTGTTGCAGTGCATTGTGTTGCAGGATTGGGAAGGGCACCT  
GTGCTGGTTGCACTTGCTTTGATTGAATGTGGAATGAAGTACGAAGATGCAGTTGAGTTT  
ATAAGACAAAAAGAAGGGGAGCGTTCAATCCAAACAGCTGCTTTATTTGGAGAAATAC  
CGACCTAAGATGCGATTACGCTTCAGAGATACCAATGGGCATTGCTGTGTTGATGAGAAG  
GAAATGTAACGAAGGCTGACTTGATTGTGCCATTTAGAGGGAACCTCT



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_080392 unedited  
 GTTCGGGATTTGTACACGACTCCTATAGGCGGCCCGCAATTCGCACGAGGCCTCGTGCC  
 GAATTCGGCACGAGGGCGCGCCGAGGCTGGGGGGAGTCGTCGCCGCCGCCACCGCT  
 ACCGCCGCCGCCGCCGCCGAGGTGACTGAGGAGAGAGGCCTCCTCGTCCCAGCA  
 CCGCCGGACTTCAATGCCAGTCCCAGCTCGCCAGCGTTTTTCGTTGGAATATACGTTG  
 CACATTTATGGCATTCTGAGTGTGAGGGCAGACTTCTGCCAGGCTCAGCACAGCATTTT  
 CGCTGACAAGTGAGCTTGAGGTTCTATGTGCCATAATTAACATTGCCTTGAAGACTCCT  
 GGACACCGAGACTGGCCTCAGAAATAGTTGGCTTTTTTTTTTTTTTAATTGCAAGCATAT  
 TTCTTTTAAATGACTCCAGTAAAATTAAGCATCAAGTAAACAAGTGAAAGTGACCTACAC  
 TTTTAACTTGTCTCACTAGTGCCTAAATGTAGTAAAGGCTGCTTAAAGTTTGTATGAGT  
 TGGATTTTTTGGAGTCCGAAGGTATCCATCTGCAGAAATTGAGGCCAAATTGAATTTGG  
 ATTCAAGTGGATTCTAAATACTTTGCTTATCTTGAAGAGAGAAGCTTCATAAGGAATAAA  
 CAAGTTGAATAGAGAAAACACTGATTGATAATAGGCATTTTAGCGGTCTTCTAATGCTT  
 TCTGCTGTGAAAATTTCAAGAATTATTGATTTTTTTTTTTTACTTTCCCATCACACTCA  
 CACGCACGCTCACACTTTTTATTTGCCATAATGAACCGTCCAGCCCTGTGGGAGATCTC  
 CTATGAGAACATGCGTTTTTCTGATAACTCACAAACCTACCCATGCTACTCTTAAACAGG  
 TTCACAGAAGGAACCTAAGAG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_080392 unedited  
 GCGGCCGCAATCTAAAGTCGAGTTTTTTTTTTTTTTTTTCTAAAATGCCCAGTGGGCT  
 TAAGGCTGCCAGACTGCACGCACATCTACAGCAACAAGGGCTTCTATTCCATCTACAACT  
 TGGATCGGGGGAAAAGGGAGATGTAGGAGAGGAAGGAAAAAGAGGGGAAAAATATACCA  
 CCAACCTCCCCACAAAAAAGGGAAAAAATCCACCACAGGGAGATCTATGTGC  
 CAAGCATAATGGAAGAGTGTGCTCCCCAACAGATGGTTTTGCACAGGCTAATGTTCTGC  
 TGGTTTTCTTAGAGACCTATTTTGAAAAAGTTTAAAAAGACAGGAGATTTCAAATAAT  
 TCAATCCTGGCAGAAATCAAATCCAAAATAGGAGCAAAATCATCCTTCACTGAATTA  
 ATTCCTTTTCTTTTCTTTTCTTAAACATTTTATTCATTTTATAGAGAGATTTCTTTT  
 TTGTTTGTCTTTTCCAAATCATTANGAGAGTGGTTGAGGAGTACTGAATCCATCACTAC  
 TTTGATGACACAGGTAATATCCAGATTCACATTTCCAGGTACCAAGAGTCCCTCTAAA  
 TGGCACAATCAAGTCAGCCCTCGTTTACATTTCTTCTACTGAACACAGCAATGCCCAT  
 GGATCTCTGAAGCGTAATCGCATCTTAGTTCGGTATTTCTCAATAAAGCAGCTGTTTG  
 AATTTGAACGCTCCCTCCTTTTTGTCTATAAACTGAACTGCATNTTTGAACTTCATTC  
 CACATCAATCAAAGCAGTGCAACAGGCCAGGTGCCTTTCAAATCTTGAACCAATGGACT  
 GGACAAAAACCTGGTTTTACAAAATTTGGTTTTAACAGTTTAAACCATCTTACTACTGA  
 TAAGGGGGGAGCTCTTATCCAGGCATTTAAACGGGGATCCTTTTTTCACTGCGCTTATC  
 CTAGGGCTACAACCTGACCAAGGGGACCCACTTTTAGTCCTCGGGACTGGGAAGAG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_080392

**Insert Size:**

1840 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\\_080392.2](#), [NP\\_536317.1](#)

**RefSeq Size:** 1952 bp

**RefSeq ORF:** 249 bp

**Locus ID:** 8073

**Cytogenetics:** 1p35.2

**Protein Families:** Druggable Genome, Phosphatase

**Gene Summary:** The protein encoded by this gene belongs to a small class of the protein tyrosine phosphatase (PTP) family. PTPs are cell signaling molecules that play regulatory roles in a variety of cellular processes. PTPs in this class contain a protein tyrosine phosphatase catalytic domain and a characteristic C-terminal prenylation motif. This PTP has been shown to primarily associate with plasmic and endosomal membrane through its C-terminal prenylation. This PTP was found to interact with the beta-subunit of Rab geranylgeranyltransferase II (beta GGT II), and thus may function as a regulator of GGT II activity. Overexpression of this gene in mammalian cells conferred a transformed phenotype, which suggested its role in tumorigenesis. Alternatively spliced transcript variants have been described. Related pseudogenes exist on chromosomes 11, 12 and 17. [provided by RefSeq, Aug 2010]

Transcript Variant: This variant (2) omits two alternate coding exons resulting in a frameshift. The protein isoform (2) is shorter than isoform 1 and has a distinct C-terminus.