

## Product datasheet for **SC109671**

### PTP alpha (PTPRA) (NM\_002836) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PTP alpha (PTPRA) (NM_002836) Human Untagged Clone
Tag:	Tag Free
Symbol:	PTP alpha
Synonyms:	HEPTP; HLPR; HPTPA; HPTPalpha; LRP; PTPA; PTPRL2; R-PTP-alpha; RPTPA
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC109671 sequence for NM\_002836 edited (data generated by NextGen Sequencing)

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ATGGATTCTGGTTCATTCTTGTCTGCTCGGCAGTGGTCTGATATGTGTCAGTGCCAAC
AATGCTACCACAGTTGCACCTTCTGTAGGAATTACAAGATTAATTAACATCAACGGCA
GAACAGTTAAGAAGAGGCCAAAATTCAAATCCAATCTTCACTAATTCTCTTTCT
GTGGCACCAACATTTCAGCCAAAATAACTCTGGGACCCACCTATTTAACCACTGTCAAT
TCTTCAGACTCTGACAATGGGACCACAAGAAGCAAGCAAGCAATCTATAGGCATTACA
ATTTACCAAATGGAACGTGGCTTCCAGATAACCAAGTTACGGATGCCAGAACAGAACCC
TGGGAGGGGAATTCCAGCACCGCAGCAACCACTCCAGAAACTTTCCCTCCTTCAGGTAAT
TCTGACTCGAAGGACAGAAGAGATGAGACACCAATTATTGCGGTGATGGTGGCCCTGTCC
TCTCTGTAGTGATCGTGTTTATTATCATAGTTTTGTACATGTTAAGTTTTAAGAAATAC
AAGCAAGTGGGAGCCATTCCAATTCTTTCCGCTTATCCAACGGCCGCACTGAGGATGTG
GAGCCCCAGAGTGTGCCACTTCTGGCCAGATCCCCAAGCACCAACAGGAAATACCCACC
CTGCCCGTGGACAAGCTGGAAGAGGAAATTAACCGGAGAATGGCAGACGACAATAAGCTC
TTCAGGGAGGAATTAACGCTCTCCCTGCATGTCTATCCAGGCCACCTGTGAGGCTGCT
TCCAAGGAGGAAAACAAGGAAAAAATCGATATGTAACATCTTGCCCTATGACCACTCT
AGAGTCCACCTGACACCGGTTGAAGGGTTCCAGATTCTGATTACATCAATGCTTCATTC
ATCAACGGCTACCAAGAAAAGAACAATTCATTGCTGCACAAGGACCAAAAAGAAGAAACG
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AACCTGAAGGAGAGAAAGGAGTGAAGTGCGCCAGTACTGGCCAGACCAAGGCTGCTGG
ACCTATGGGAATATTCGGGTGTCTGTAGAGGATGTGACTGTCTGGTGGACTACACAGTA
CGGAAGTCTGCATCCAGCAGGTGGCGACATGACCAACAGAAAGCCACAGCGCCTCATC
ACTGATCCACTTTACCAGCTGGCCAGACTTTGGGGTGCCTTTTACCCCGATCGGATG
CTCAAGTTCCTCAAGAAGGTGAAGGCCTGTAACCCTCAGTATGCAGGGGCCATCGTGTC
CACTGCAGTGCAGGTGTAGGGCTACAGGTACCTTTGTCGTATTGATGCCATGTGGAC
ATGATGCATACAGAACGGAAGGTGGACGTGATGGCTTTGTGAGCCGGATCCGGGCACAG
CGCTGCCAGATGGTGAAACCGATATGCAGTATGTCTTCATATACCAAGCCCTTCTGGAG
CATTATCTCTATGGAGATACAGAACTGGAAGTGACCTCTCTAGAAACCCACCTGCAGAAA
ATTTACAACAAAATCCCAGGGACCAGCAACAATGGATTAGAGGAGGATTTAAGAAGTTA
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AAGAACCGTGTTTTACAGATCATTCCATATGAATTCAACAGAGTATCATTCCAGTTAAG
CGGGGCGAAGAGAATACAGACTATGTGAACGCATCCTTTATTGATGGCTACCGGCAGAAG
GACTCCTATATCGCCAGCCAGGGCCCTCTTCTCCACACAATTGAGGACTTCTGGCGAATG
ATCTGGGAGTGGAAATCCTGCTCTATCGTGTGTAACAGAACTGGAGGAGAGAGCCAG
GAGAAGTGTGCCAGTACTGGCCATCTGATGGACTGGTGTCTATGGAGATATTACAGTG
GAACTGAAGAAGGAGGAGGAATGTGAGAGCTACACCGTCCGAGACCTCCTGGTCAACCAAC
ACCAGGGAGAATAAGAGCCGGCAGATCCGGCAGTTCCTTCCATGGCTGGCCTGAAGTG
GGCATCCCCAGTGACGGAAGGGCATGATCAGCATCATCGCCCGCGTGCAGAAGCAGCAG
CAGCAGTCAGGGAACCCCATCACCGTGCACAGCGCCGGGGCAGGAAGGACGGGG
ACCTTCTGTGCCCTGAGCACCGTCTGGAGCGTGTGAAAGCAGAGGGGATTTGGATGTC
TTCCAGACTGTCAAGAGCCTGCGGCTACAGAGGCCACACATGGTCCAGACTGGAACAG
TATGAGTCTGCTACAAGGTGGTGCAGGAGTATATTGATGCATTCTCAGATTATGCCAAC
TTCAAGTAA
    
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Clone variation with respect to NM\_002836.3

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_002836 unedited  
 AATACGACTCACTATAGGGCGGCCGACATTCGCACGAGGGCAGTTCAAATAACTAAGG  
 ACACATGTTCAAAGAGCATAATTAACTTTTTAAAAAGCATAATAAGCATGGATTCTGG  
 TTCATTCTTGTCTGCTCGGCAGTGGTCTGATATGTGTCAAGTCCCAACAATGCTACCACA  
 GTTGCACCTTCTGTAGGAATTACAAGATTAATTAACCTCATCAACGGCAGAACCAGTTAAA  
 GAAGAGGCCAAAATTCAAATCCAACCTCTTCTACTAACTTCTCTTCTGTGGCACCACA  
 TTCAGCCAAAATAAATCTGGGACCCACCTATTTAACCCTGTCAATTCTTCAGACTCT  
 GACAATGGGACCACAAGAACAGCAAGCACCAATTCTATAGGCATTACAATTTACCAAAT  
 GGAACGTGGCTTCCAGATAAACCAGTTCACGGATGCCAGAACAGAACCCCTGGGAGGGGAAT  
 TCCAGCACCGCAGCAACCCTCCAGAACTTTCCCTCCTTCAGGTAATTCTGACTCGAAG  
 GACAGAAGAGATGAGACACCAATTATTGCGGTGATGGTGGCCCTGTCTCTGTAGTGA  
 TCGTGTATTATCATAGTTTTGTACATGTTAAGGTTAAGAAATACAGCAGCTGGGAGCC  
 TTCCAATCTTTTCGCTTATCCAACGCCGACTGAAGATGTGGAGCCCAAATGTGCCACT  
 TCTGGCCAGATCCNCAGCACACAGAANTACCCACCTTGCCCGTGACAGCTGGAAGAAGA  
 AATAACCGAGAATGGCGACGACATAGCTCTCAGGNAGGATTCACGCTCTCCTGATGTCTA  
 TCAGCCACTGGAAGCTGTTCCAGGGAGAAAACAGAAAAACGTTGTAAACATCTGCTTTGAC  
 ACTTTAAGCACTGACNGGGGGGGC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_002836 unedited  
 NNGAATTACTGACTTTTTAATTCTCCATAAAAACATGGNAAAAGGACTATCAGTGCTAAC  
 ACATTTACATATAAAAATTTCCACCTAATAGGTAATAGAAGCCTATGTACCAATTTCTAAA  
 ACAGTTATAAGATATATACACAATTTGGGGTATATTAACAAAACAGAATATTACAAAATA  
 TTAAGGCAATCCTCCTGGTCCACGGACCCTTGTGGCCGCTTACTTGAAGTTGGCATAAT  
 CTGAGAATGCATCAATATACTCCTGCACCACCTTGTAGCAGAACTCATACTGTTCCAGTG  
 TCTGGACCATGTGTGGCCTCTGTAGCCGACGGCTCTTGACAGTCTGGAAGACATCCAAAA  
 TCCCCTCTGCTTTCACACGCTCCAGGACGGTGTCTAGGGCACAGAAGGTCCCGTCTTCT  
 CTGCCCCGGCGCTGCAGTGCACGGTGTGGGGTGGTCCCTGACTGCTGCTGCTGCTTCT  
 GCACGGCGGGCATGATGCTGATCATGCCCTTCCGTCACTGGGGATGCCCACTTCAGGCC  
 AGCCATGGAAGTGAAGTGCCTGATCTGCCGGCTTATTCTCCCTGGTGTGGTGACCA  
 GGAGTCTCGGACGGTGTAGCTCTCACATTCCTCCTCTTCTTCCAGTTCCTGTAATAT  
 TCCATAGGACACCAAGTCCATCAGATGGCCAGTACTGGGCACACTTCTCCTGGCCTCTCT  
 CCTTCAGTTCTGTAGCATCACGATAGAGCAGGATTTCCACTCCCAGATCATTCCGCCAGA  
 AGTCTCAATTGTGTGGGAGAGAAGGGCCCTGNCTGGCGATATANNAGNCCTTCTGNCG  
 GTAGCCATCAATAAGGNATGCGTCACATAGTCTGTATTCTCTTCCGCCCGCTTACTGGA  
 ATGATCACTCTGNTGAATNCATATGGATGATCTGTN

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_002836

**Insert Size:**

2820 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_002836.2</a> , <a href="#">NP_002827.1</a>
<b>RefSeq Size:</b>	3643 bp
<b>RefSeq ORF:</b>	2409 bp
<b>Locus ID:</b>	5786
<b>UniProt ID:</b>	<a href="#">P18433</a>
<b>Cytogenetics:</b>	20p13
<b>Domains:</b>	Y_phosphatase, PTPc_motif
<b>Protein Families:</b>	Druggable Genome, Phosphatase, Transmembrane
<b>Gene Summary:</b>	<p>The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP contains an extracellular domain, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus represents a receptor-type PTP. This PTP has been shown to dephosphorylate and activate Src family tyrosine kinases, and is implicated in the regulation of integrin signaling, cell adhesion and proliferation. Three alternatively spliced variants of this gene, which encode two distinct isoforms, have been reported. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1).</p>