

## Product datasheet for **SC309897**

### HDPTP (PTPN23) (NM\_015466) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** HDPTP (PTPN23) (NM\_015466) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** HDPTP  
**Synonyms:** HD-PTP; HDPTP; NEDBASS; PTP-TD14  
**Mammalian Cell Selection:** None  
**Vector:** [pCMV6-XL5](#)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_015466 edited  
TTCGGCACGAGGGGCGGCGGGTGCCAGCCGCCATGGAGGCCGTGCCCCGCATGCCCATG  
ATCTGGCTGGACCTGAAGGAGGCCGGTGACTTTCACCTCCAGCCAGCTGTGAAGAAGTTT  
GTCCTGAAGAATTATGGAGAGAACCAGAAGCCTACAATGAAGAACTGAAGAAGCTGGAG  
TTGCTCAGACAGAATGCTGTCCGTGTCCCACGAGACTTTGAGGGCTGTAGTGTCTCCGC  
AAGTACCTCGCCAGCTTATTACCTGCAGAGTCGGGTCCCCATGGGCTCGGGCCAGGAG  
GCCGCTGTCCCTGCACCTGGACAGAGATCTTCTCAGGCAAGTCTGTGGCCCATGAGGAC  
ATCAAGTACGAGCAGGCCTGTATTCTCTACAACCTTGGAGCGCTGCACTCCATGCTGGGG  
GCCATGGACAAGCGGGTGTCTGAGGAGGGCATGAAGGTCTCTGTACCCATTTCCAGTGC  
GCAGCCGGCGCCTTCGCCTACCTACGGGAGCACTTCCCTCAAGCCTACAGCGTCGACATG  
AGCCGCCAGATCCTTACGCTCAACGTCAACCTCATGCTGGGCCAGGCTCAGGAGTGCCTC  
CTGGAGAAGTCGATGTTGGACAACAGGAAGAGCTTCTGGTGGCCCGCATCAGTGCACAG  
GTGGTAGATTACTACAAGGAGGCATGCCGGCCTTGGAGAACCCCGACACTGCCTCACTG  
CTGGGCCGGATCCAGAAGGACTGGAAGAACTTGTGCAGATGAAGATCTACTACTTCGCA  
GCCGTGGCTCATCTGCACATGGGAAAGCAGGCCGAGGAGCAGCAGAAGTTCGGGGAGCGG  
GTTGCATACTTCCAGAGCGCCCTGGACAAGCTCAATGAAGCCATCAAGTTGGCCAAGGGC  
CAGCCTGACACTGTGCAAGACGCGCTTCGCTTCACTATGGATGTCATTGGGGAAAGTAC  
AATTCTGCCAAGAAGGACAACGACTTCAATTTACCATGAGGCTGTCCCAGCATTGGACACC  
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GCTGTTACAGGCCCTGACATCTTTGCCAACTGGTACCCATGGCTGCCACGAGGCCCTCG  
TCACTGTACAGTGAGGAGAAGGCCAAGCTGCTCCGGGAGATGATGGCCAAGATTGAGGAC  
AAGAATGAGGTCTGGACCAGTTCATGGATTCAATGCAGTTGGATCCCGAGACGGTGGAC  
AACCTTGATGCCTACAGCCACATCCCACCCAGCTCATGGAGAAGTGCGCGGCTCTCAGC  
GTCCGGCCCGACACTGTCAGGAACCTTGTACAGTCCATGCAAGTGTGTCAGGTGTGTTT  
ACGGATGTGGAGGCTTCCCTGAAGGACATCAGAGATCTGTTGGAGGAGGATGAGCTGCTA  
GAGCAGAAGTTTCAGGAGCGGTGGGCCAGGCAGGGCCATCTCCATCACCTCCAAGGCT  
GAGCTGGCAGAGGTGAGGCGAGAATGGGCCAAGTACATGGAAGTCCATGAGAAGGCTCC



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TTCACCAACAGTGAGCTGCACCGTGCCATGAACCTGCACGTCGGCAACCTGCGCCTGCTC  
 AGCGGGCCGCTTGACCAGGTCCGGGCTGCCCTGCCACACCGGCCCTCTCCCAGAGGAC  
 AAGGCCGTGCTGCAAAACCTAAAGCGCATCCTGGCTAAGGTGCAGGAGATGCGGGACCAG  
 CGCGTGTCCCTGGAGCAGCAGCTGCGTGAGCTTATCCAGAAAGATGACATCACTGCCTCG  
 CTGGTCACCACAGACCACTCAGAGATGAAGAAGTTGTTGAGGAGCAGCTGAAAAAGTAT  
 GACCAGTGAAGGTGTACCTGGAGCAGAACCTGGCCGCCCAGGACCCTGTCTCTGTGCA  
 CTGACAGAGGCCAACGTGCAGTACGCAGCCGTGCGGCGGGTACTCAGCGACTTGGACCAA  
 AAGTGGAACCTCCACGCTGCAGACCTGGTGGCCTCGTATGAAGCCTATGAGGACCTGATG  
 AAGAAGTCGCAGGAGGGCAGGGACTTCTACGCAGATCTGGAGAGCAAGGTGGCTGCTCTG  
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 AGGGAGCTGAAGAAGAAGCCGCCACGGCCACAGCCCAAAGCCGCTGCTGCCCCGC  
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 CAGCCCCACAGCAGCCCTTCCACTCCAGCATCCACATCTCTTCCCACCCAGGCCCA  
 GGACTCCTACCCCAACAATCCCCCTACCCTATGCCCTCAGCCTGGGGTCTGGGGCAG  
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 GGCACTCAGTCTCCTGGGGTGGGCAGCCCTGCTGCAGCCACCAAGGTGGATGCAGCT  
 GAGGGTGTGCGGCCGAGGCCCTGCGGGTATTGAGCGGGACCCCTATGAACATCCTGAG  
 AGGCTGCGGCAGTTGCAGCAGGAGCTGGAGGCCTTTCGGGGTCACTGGGGGATGTGGGA  
 GCTCTGGACACTGTCTGGCGAGAGCTGCAAGATGCGCAGGAACATGATGCCCGAGGCCGT  
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 GACAGTAACCGTGTGGTGTGCGCTCAGGCAAGGATGACTACATCAATGCCAGCTGCGTG  
 GAGGGGCTCTCCCATACTGCCCCCGCTAGTGGCAACCCAGGCCCACTGCCTGGCACA  
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 CCCATGGTGCACGGTGCCTGAGCCTGGCATTGAGCAGCGTCCGAGCACCGAAACCCAT  
 GTGGAGCGGTGCTGAGCCTGCAGTTCCGAGACCAGAGCCTCAAGCGCTCTTTGTGCAC  
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 TTCATCCAGGAGGTGCACGCACATTACCTGCATCAGCGGCCGCTGCACACGCCCATCATT  
 GTGCACTGCAGCTCTGGTGTGGGCCGACGGGAGCCTTTGCACTGCTCTATGCAGCTGTG  
 CAGGAGGTGGAGGCTGGGAACGGAATCCCTGAGCTGCCTCAGCTGGTGGCGGCATGCGG  
 CAGCAGAGAAAGCACATGCTGCAGGAGAAGCTGCACCTCAGGTTCTGCTATGAGGCAGTG  
 TGAGACACGTGGAGCAGGTCTGCAGGCCATGGTGTGCCTCCTCCATGCAACCCCTTG  
 GCCAGTGAAGCATCAGCCAGAAGAACCCTTCTCAGGACTCCAGGACCTGGTCCTC  
 GGTGGGGATGTGCCATCAGCTCCATCCAGGCCACCATGGCAAGCTCAGCATTGCGCCT  
 CCTGGGGGTTGGAGTCCCCGGTTGCCAGCTTGCCAGGCCCTGCAGAGCCCCAGGCCCTC  
 CCGCCAGCCAGCTCCAGAGTCTACCCAATCCCATCTTCTCCCACCCCTTTTC

TCCCCACTACCTGAGGCTCCCCAGCCTAAGGAGGAGCCGCCAGTGCCTGAAGCCCCCAGC  
 TCGGGGCCCCCTCCTCCTCCCTGGAATTGCTGGCCTCCTTGACCCAGAGGCCTTCTCC  
 CTGGACAGCTCCTGCGGGGCAAACAGCCGATGAGCAAGCATAACTTTCTGCAGGCCAT  
 AACGGCAAGGGCTGCGGGCCACCCGGCCCTTGACGACCCCTCAGCCTTCTGGATCCA  
 CTCTGGACTCAACAAGACCTGAACAGTTTTGCCTACCTGGTCCTTACACTACATCAT  
 CATCATCTCATGCCACCTGCCACACCCAGCAGACTTCTCAGTGGGCACAGTCTTTA  
 CTCCCATTCTGCTGCCTTTGGCCCTGCCTGGCCAGCCTGCACCCCTGTGGGGTGAAA  
 TGTAAGCAGGCTCTGGGTGAGTTCTGCTCCTTTATGGGACCCGACATTTTTCAGCTCT  
 TTGCTATTGAAATAATAAACCCCTGTTCTGTGGCCAAAAAAAAAAAAAAAAAAAA

<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_015466
<b>Insert Size:</b>	5200 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	The ORF of this clone has been fully sequenced and found to be a perfect match to the protein associated with NM_015466.1.
<b>Components:</b>	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_015466.1</a> , <a href="#">NP_056281.1</a>
<b>RefSeq Size:</b>	5248 bp
<b>RefSeq ORF:</b>	4911 bp
<b>Locus ID:</b>	25930
<b>UniProt ID:</b>	<a href="#">Q9H3S7</a>
<b>Cytogenetics:</b>	3p21.31
<b>Protein Families:</b>	Druggable Genome

**Gene Summary:**

This gene encodes a member of the non-receptor type protein-tyrosine phosphatase family. The encoded protein may be involved in the regulation of small nuclear ribonucleo protein assembly and pre-mRNA splicing by modifying the survival motor neuron (SMN) complex. The encoded protein additionally plays a role in ciliogenesis and is part of endosomal sorting complex required for transport (ESCRT) pathways. This gene may serve a tumor suppressor function. [provided by RefSeq, Jul 2016]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).