

## Product datasheet for **SC327678**

### **SAP1 (PTPRH) (NM\_001161440) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SAP1 (PTPRH) (NM_001161440) Human Untagged Clone
Tag:	Tag Free
Symbol:	SAP1
Synonyms:	R-PTP-H; SAP1
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:** >NCBI ORF sequence for NM\_001161440, the custom clone sequence may differ by one or more nucleotides

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ATGGCTGGGGCTGGCGGGGCTCGGGGTCTGGGGGAACCTGGTGTCTGGGCCTGTGC
AGCTGGACAGGGGCCAGGGCGCCTGCCCAACCCAGGGAGGAACCTGACAGTGGAGACT
CAGACCACCAGCTCCATCTCCCTGAGCTGGGAGTCCCGATGGCCTAGACTCACAGAAC
TCCAACACTGGTTTCAGTGTACTGGAGACGGCGGCACAACAGAGACTCGAAACACAACA
GCCACCAACGTACCCGTGGATGGCCTTGGACCCGGGTCAATTGTATACGTGTTCTGTGTGG
GTGGAGAAAGACGGAGTAAATAGCTCTGTGGGGACTGTCACTACTGCCACAGTCCCAAC
CCAGTGAGAAACCTGACAGTGGAGGCTCAGACCAACAGCTCCATCGCCCTGACCTGGGAG
GTCCCGATGGCCAGACCCACAGAACTCCACCTACGGGGTTGAGTACACTGGAGATGGT
GGCAGAGCAGGGACTCGAAGCACAGCACACCAACATCACCGTGGATAGACTTGAACCC
GGGTGTTTGTATGTGTTTCCGTGTGGGTGGGGAAGAATGGAATCAACAGCTCCCGGGAG
ACTCGAAATGCCACCACAGCCCAACCCAGTGAAGAACCTCCATATGGAGACTCAGACC
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AAAAATGGAGCACGTGGCTCCAGGCAGAATGTCAGCATCTCCACAGTCCCAACGCAAGT
ACAAGCCTCAGCAAGCAGGACTGGACCAACAGCACCATTTGCTTTGCGCTGGACAGCTCCC
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GACCCAGGACCCAAAGCACCTCAGGACTGACATCACCTAAAGGAACTGGAAGCTGGC
AGCCTGTACCACCTCACCGTCTGGGCGGAGAGGAATGAGGTGAGAGGCTATAACAGCACC
CTCACTGCAGCCACTGCTCCCAATGAGGTGACAGATCTCCAGAATGAAACTCAGACTAAG
AACTCAGTCATGCTGTGGTGGAAAGGCCCTGGAGACCCCACTCTCAGTTGTACGTATA
TGGGTCCAGTGGGCCAGCAAGGGACATCCCGGAGGGGGCAAGATCCCAAGCGAATTGG
GTCAACAGACAGCAGGACCAATGAGACGTGGTACAAAGTGGAGGCCCTGGAACCCGGG
ACGTTGTACAATTTACCGTGTGGGCAGAGAGGAATGACGTAGCCAGTTCCACGCAGAGC
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GGCTATGGAGTCAACTTGATCTGGTCTGCCCCAGGGAGGCTACGAGGCCTTTGAGTTG
GAGGTGGGAGGACAGCGGGGCTCCAGGACAGATCTTCATGTGGGGAGGCTGTGTCTGTG
TTGGGTCTCGGGCCGGCTCGGTCTACCCAGCCACCATCAGACCATCTGGGACGGAATG
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TTTGTGGGCATCCTCCTGTTTCTCATCCTCGTGGGCTGCTGATTTTCTCCTGAAGAGG
AGGAATAAGAAGAAGCAGCAGAAACAGAACTCAGGGATCTGGTCTTTAGCTCCCAAGG
GACATCCCAGCTGAAGACTTCGCTGACCAGTCAAGGAAGAATGAGAGGGACAGCAACTGT
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GCTTCGGCTTCAGAGAACAACGCCAAGAACCGCTACAGAAATGTGCTGCCTATGACTGG
TCCCGGGTGCCTGAAGCCATCCATGAGGAGCCAGGCTCTGACTACATCAATGCCAGC
TTCATGCCCGGTCTCTGGAGCCCCAGGAGTTCATTGCAACCCAGGGTCCCCTGCCACAG
ACAGTGGGTGACTTCTGGCGCCTGGTGTGGGAACAGCAGAGCCACACCCTGGTCATGCTG
ACCAACTGCATGGAGCCGGCCGGTGAAGTGTGAGCATTACTGGCCTCTGGACTCGCAG
CCCTGCACCCATGGGCACCTGCGGGTAACCCTGGTAGGTGAGGAAGTGTGGAGAAGTGG
ACGGTGGCGGAACTGCTGCTCCTCCAGGTGGAGGAGCAGAAGACTGTCTGTGCGCCAA
TTCCACTACCAGGCTGGCCGATCACGGGTTCCCTCCTCCCAGACACCTTGTGGCT
TTCTGGAGGATGCTTCGGCAGTGGCTGGATCAGACCATGGAGGGAGGCCACCCATTGTG
CACTGCAGTGTGGCGTGGTGCACAGGAACCTCATTGCCCTGGACGTCTGCTCCGG
CAGCTGCAGTCCGAGGTCTCCTTGGCCCTTCAGCTTTGTAAGGAAGATGAGAGAGAGT
CGGCCGTTGATGGTGCAGACTGAGGCTCAGTACGTATTCTGCATCAGTGCATCCTGCGG
TTCTCCAACAGTCAGCCAGGCCCCAGCCGAGAAGGAAGTCCCGTATGAGGATGTCGAA
AACCTCATCTACGAGAACGTGGCCGCCATCCAGGCCACAAGTTGGAGGTC

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**Restriction Sites:** Please inquire

ACCN:	NM_001161440
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a></p>
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:	<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>
RefSeq:	<a href="#">NM_001161440.1</a> , <a href="#">NP_001154912.1</a>
RefSeq Size:	3401 bp
RefSeq ORF:	2814 bp
Locus ID:	5794
UniProt ID:	<a href="#">Q9HD43</a>
Cytogenetics:	19q13.42
Protein Families:	Druggable Genome, Transmembrane

**Gene Summary:**

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 possesses an extracellular region, a single transmembrane region, and a single intracytoplasmic catalytic domain, and thus represents a receptor-type PTP. The extracellular region contains eight fibronectin type III-like repeats and multiple N-glycosylation sites. The gene was shown to be expressed primarily in brain and liver, and at a lower level in heart and stomach. It was also found to be expressed in several cancer cell lines, but not in the corresponding normal tissues. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2009]

Transcript Variant: This variant (2) lacks two in-frame exons in the 5' coding region, compared to variant 1. The encoded isoform (2) is shorter than isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.