

Product datasheet for **SC315193**

SAP1 (PTPRH) (NM_002842) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SAP1 (PTPRH) (NM_002842) Human Untagged Clone
Tag:	Tag Free
Symbol:	SAP1
Synonyms:	R-PTP-H; SAP1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_002842 edited
 GGTCCCCGGCAGTGTCTGGAGGCATGGCTGGGGCTGGCGGGCCTCGGGGTCTGGGGGA
 ACCTGGTGTCTGCTGGCCCTGTGCAGCTGGACAGGGGCCAGGGCGCCTGCCCCAACCCAG
 GGAGGAACCTGACAGTGGAGACTCAGACCACCAGCTCCATCTCCCTGAGCTGGGAGGTCC
 CCGATGGCCTAGACTCACAGAACTCCAACTACTGGTTTCAGTGTACTGGAGACGGCGGCA
 CAACAGAGACTCGAAACACAACAGCCACCAACGTACCGTGGATGGCCTTGGACCCGGGT
 CATTGTATACGTGTTCTGTGTGGTGGAGAAAGACGGAGTAAATAGCTCTGTGGGACTG
 TCACTACTGCCACAGCTCCCAACCCAGTGAGGAACCTGAGAGTGGAGGCTCAGACCAACA
 GCTCCATCGCCCTGACCTGGGAGGTCCCCGACGGCCAGACCCACAGAACTCCACCTACG
 GGGTTGAGTACACTGGAGATGGTGGCAGAGCAGGGACTCGAAGCACAGCACACCAACA
 TCACCGTGGATGGACTTGAACCCGGGTGTTTGTATGCGTTTTCCATGTGGGTGGGAAAGA
 ATGGAATCAACAGCTCCCGGGAGACTCGAAATGCCACCACAGCTACAACCCAGTGAGGA
 ACCTGAGAGTGGAGGCTCAGACCACCAGCTCCATCTCCCTGAGCTGGGAGGTCCCCGATG
 GCACAGACCCACAGAACTCCACCTACTGCGTTCAGTGCCTGGAGATGGTGGCAGAACAG
 AGACTCGAAACACAACAGACACCAGAGTACCCTGGATGGCCTTGGACCCGGGTCAATTGT
 ATACGTGTTCTGTGTGGTGGAGAAAGACGGAGTAAATAGCTCTGTGGAGATTGTACTA
 GTGCCACAGCTCCCAACCCAGTGAGAAACCTGACAGTGGAGGCTCAGACCAACAGCTCCA
 TCGCCCTGACCTGGGAGGTCCCCGATGGCCAGACCCACAGAACTCCACCTACGGGGTTG
 AGTACACTGGAGATGGTGGCAGAGCAGGGACTCGAAGCACAGCATAACCAACATCACCG
 TGGATAGACTTGAACCCGGGTGTTTGTATGTGTTTTCCGTGTGGGTGGGGAAGAATGGAA
 TCAACAGCTCCCGGGAGACTCGAAATGCCACCACAGCCCCAACCAGTGAGAAACCTCC
 ATATGGAGACTCAGACCAACAGCTCCATCGCCCTATGCTGGGAAGTCCCCGATGGCCAT
 ACCCTCAGGACTACACCTACTGGGTAGAGTACACTGGAGACGGTGGTGGCACAGAGACCC
 GAAACACAACAAATACCAGTGTGACAGCTGAGAGACTTGGACCCGGAACCTTGTACACAT
 TCTCTGTATGGGCAGAAAAAATGGAGCACGTGGCTCCAGGCAGAATGTCAGCATCTCCA
 CAGTCCCCAACGCAGTGACAAGCCTCAGCAAGCAGGACTGGACCAACAGCACCATTGCTT
 TGCCTGGACAGCTCCCCAGGGCCAGGCCAGTCTTCTACAGCTACTGGTCTCATGGG



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TCAGGGAAGGCATGACTGACCCAGGACCCAAAGCACCTCAGGTAAGTACATCACCTAA
 AGGAACTGGAAGCTGGCAGCCTGTACCACCTCACCGTCTGGGCCGAGAGGAATGAGGTCA
 GAGGCTATAACAGCACCCCTCACTGCAGCCACTGCTCCCAATGAGGTACACAGATCTCCAGA
 ATGAAACTCAGACTAAGAAGTCACTCATGCTGTGGTGGAAAGGCCCTGGAGACCCCACT
 CTCAGTTGTACGTATACTGGGTCCAGTGGGCCAGCAAGGGACATCCCGGAGGGGCAAG
 ATCCCAAGCGAATTGGGTCAACCAGACCAGCAGACCAATGAGACGTGGTACAAAGTGG
 AGGCCCTGGAACCCGGGACGCTGTACAATTTACCGTGTGGCCAGAGAGGAATGACGTAG
 CCAGTTCCACGCAGAGCCTCTGTGCGTCCACATACCCAGACACAGTCACCATCACTTCCT
 GTGTCAGCACCTCAGCGGCTATGGAGTCAACTTGATCTGGTCTGCCCCAGGGAGGCT
 ACGAGGCTTTGAGTTGGAGGTGGGAGGACAGCGGGGCTCCAGGACAGATCTTCATGTG
 GGGAGGCTGTGTCTGTGTGGGTCTCGGGCCGGCTCGGTCTACCCAGCCACCATCACGA
 CCATCTGGGACGGAATGAAGTCTGTCTCACTCTGTGGTCTGCCACCCGAGAGTGCAG
 GGGTCATTGCCGAGCCTTTGTGGGCATCCTCCTGTTTCTCATCCTCGTGGGCTGCTGA
 TTTTCTTCTGAAGAGGAGGAATAAGAAGAAGCAGCAGAAACCAGAACTCAGGGATCTGG
 TCTTTAGTCCCCAGGGGACATCCAGCTGAAGACTTCGCTGACCACGTCAGGAAGAATG
 AGAGGGACAGCAACTGTGGTTTTGCAGACGAGTACCAGCAACTCTCCCTGGTGGGCCACA
 GCCAGTCTCAGATGGTGGCTTCGGCTTCAGAGAACAACGCCAAGAACCGGTACAGAAATG
 TGCTGCCCTATGACTGGTCCCGGTGCCCTGAAGCCATCCATGAGGAGCCAGGCTCTG
 ACTACATCAATGCCAGCTTCATGCCCGGTCTCTGGAGCCCCAGGAGTTCATTGCAACCC
 AGGGTCCCCTGCCACAGACAGTGGGTGACTTCTGGCGCTGGTGTGGGAACAGCAGAGCC
 ACACCCGGTTCATGCTGACCAACTGCATGGAGGCCGGCCGGTGAAGTGTGAGCATTACT
 GGCCTCTGGACTCGCAGCCCTGCACCCATGGGCACCTGCCGGTAACCCTGGTAGGTGAGG
 AAGTGATGGAGAAGTGGACGGTGGGGAAGTGTCTCCTCCAGGTGGAGGAGCAGAAGA
 CACTGTCTGTGCCCAATTCACACTACCAGGCCTGGCCGGATCACGGCGTTCCCTCCTCCC
 CAGACACCTTGCTGGCTTTCTGGAGGATGCTTCGGCAGTGGTGGATCAGACCATGGAGG
 GAGGCCACCCATTGTGCACTGCAGTGTGGCGTGGTGCACAGGAACCCTCATTGCC
 TGGACGCTCTGCTCCGGCAGTGCAGTCCGAGGGTCTCCTTGGGCCCTTCAGTTTGTA
 GGAAGATGAGAGAGAGTGGCCGTTGATGGTGCAGACTGAGGCTCAGTACGTATTCTGC
 ATCAGTGCATCTGCGGTTCTCCAACAGTCAGCCAGGCCCCAGCCGAGAAGGAAGTCC
 CGTATGAGGATGTCGAAAACCTCATCTACGAGAAGTGGCCGCCATCCAGGCCACAAGT
 TGGAGGTCTAAGTGACGAGGGGGCTGGGTGGCAGCCAGGCATCCTCAAGCTCTGGACA
 CCCACTTGAGCCAGATTCTGGAAGAGCAGAGGGCTGGGCTCCAGACTCCTGGGTGCT
 GTGGG

- Restriction Sites:** Please inquire
- ACCN:** NM_002842
- Insert Size:** 3500 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).
- OTI Annotation:** The ORF of this clone has been fully sequenced and found to contain 3 SNPs compared with NM_002842.2.
- 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_002842.2](#), [NP_002833.2](#)

RefSeq Size: 3895 bp

RefSeq ORF: 3348 bp

Locus ID: 5794

UniProt ID: [Q9HD43](#)

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 (1) represents the longer transcript and encodes the longer 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.