

Product datasheet for **RC229043**

SAP1 (PTPRH) (NM_001161440) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SAP1 (PTPRH) (NM_001161440) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PTPRH
Synonyms:	R-PTP-H; SAP1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RC229043 representing NM_001161440
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGGGGCTGGCGGGGGCTCGGGGTCTGGGGGAACCTGGTGTCTGGGCCTGTGCAGCTGGACAG
 GGGCCAGGGCGCCTGCCCAACCCAGGGAGGAACCTGACAGTGGAGACTCAGACCACCGCTCCATCTC
 CCTGAGCTGGGAGGTCCCCGATGGCCTAGACTCACAGAACTCCAACACTACTGGGTTCACTGTACTGGAGAC
 GGCGGCACAACAGAGACTCGAAACACAACAGCCACCAACGTCACCGTGGATGGCCTTGGACCCGGGTTCAT
 TGTATACGTGTTCTGTGTGGTGGAGAAAGACGGAGTAAATAGCTCTGTGGAGATTGTCAGTGTGCCAC
 AGCTCCCAACCCAGTGAAGAACCTGACAGTGGAGGCTCAGACCAACAGCTCCATCGCCCTGACCTGGGAG
 GTCCCGATGGCCAGACCCACAGAACTCCACCTACGGGGTTGAGTACACTGGAGATGGTGGCAGAGCAG
 GGACTCGAAGCACAGCACACCAACATCACCGTGGATAGACTTGAACCCGGGTGTTTGTATGTGTTTTTC
 CGTGTGGGTGGGAAGAATGGAATCAACAGCTCCCGGGAGACTCGAAATGCCACCACAGCCCCAACCCA
 GTGAGAAACCTCCATATGGAGACTCAGACCAACAGCTCCATCGCCCTATGCTGGGAAGTCCCCGATGGCC
 CATAACCTCAGGACTACACCTACTGGGTAGAGTACACTGGAGACGGTGGTGGCACAGAGACCCGAAACAC
 AACAAATACCACTGTGACAGCTGAGAGACTTGGAGCCGGAACCTTGTACACATTCTGTATGGGCAGAA
 AAAAATGGAGCACGTGGCTCCAGGCAGAATGTCAGCATCTCCACAGTCCCAACGCAGTGAACAAGCCTCA
 GCAAGCAGGACTGGACCAACAGCACCATTGCTTTGCGCTGGACAGCTCCCAGGGCCAGGCCAGTCTTC
 CTACAGCTACTGGGTCTCATGGTCCAGGAAGGCATGACTGACCCAGGACCCAAAGCACCTCAGTACT
 GACATCACCTAAAGAACTGGAAGCTGGCAGCCTGTACCACCTACCGTCTGGCCGAGAGGAATGAGG
 TCAGAGCTATAACAGCACCCCTCACTGCAGCCACTGCTCCAATGAGGTACAGATCTCCAGAATGAAAC
 TCAGACTAAGAACTCAGTCATGCTGTGGTGGAAAGGCCCTGGAGACCCCACTCTCAGTTGTACGTATAC
 TGGGTCCAGTGGCCAGCAAGGGACATCCCGGAGGGGGCAAGATCCCAAGCGAATTGGGTCAACCAGA
 CCAGCAGGACCAATGAGACGTGGTACAAAGTGGAGGCCCTGGAACCCGGGACGCTGTACAATTTACCGT
 GTGGGCAGAGAGGAATGACGTAGCCAGTCCACGCAGAGCCTCTGTGCTCCACATACCCAGACACAGTC
 ACCATCACTTCTGTGTCAGCACCTCAGCGGGCTATGGAGTCACTTGTCTGCTGCTGCCCCAGGGAG
 GCTACGAGGCCTTTGAGTTGGAGGTGGGAGGACAGCGGGCTCCCAGGACAGATCTTCATGTGGGGAGGC
 TGTGTCTGTGTTGGTCTCGGGCCGGCTCGTCTACCCAGCCACCATCACGACCATCTGGGACGGAATG
 AAGGTCGTGTCTACTCTGTGGTCTGCCACCCGAGAGTGCAGGGGTCAATGCCGAGCCTTTGTGGGCA
 TCCTCCTGTTTCTCATCCTCGTGGCCCTGCTGATTTTCTCCTGAAGAGGAGGAATAAGAAGAAGCAGCA
 GAAACCAGAACTCAGGGATCTGGTCTTTAGCTCCCAGGGGACATCCCAGCTGAAGACTTCGCTGACCAC
 GTCAGGAAGAATGAGAGGGACAGCAACTGTGGTTTTGCAGACGAGTACCAGCAACTCTCCCTGGTGGCC
 ACAGCCAGTCTCAGATGGTGGCTTCGGCTTCAGAGAACAACGCCAAGAACCCTACAGAAATGTGCTGCC
 CTATGACTGGTCCCGGTGCCTCTGAAGCCATCCATGAGGAGCCAGGCTCTGACTACATCAATGCCAGC
 TTCATGCCCGTCTCTGGAGCCCCAGGAGTTCATTGCAACCCAGGGTCCCCTGCCACAGACAGTGGGTG
 ACTTCTGGCGCCTGGTGTGGGAACAGCAGAGCCACACCCTGGTCACTGCTGACCAACTGCATGGAGGCCGG
 CCGGGTGAAGTGTGAGCATTACTGGCCTCTGGACTCGCAGCCCTGCACCCATGGGCACCTGCGGGTAACC
 CTGGTAGATGAGGAAGTATGGAGAATGGACGGTGGCGGAACTGCTGCTCCTCCAGTGGAGGAGCAGA
 AGACACTGTCTGTGCGCAATTCCACTACCAGGCTGGCCGGATCACGGCGTTCCCTCCTCCCAGACAC
 CTTGCTGGCTTTCTGGAGGATGCTTCGGCAGTGGCTGGATCAGACCATGGAGGGAGGCCACCCATTGTG
 CACTGCAGTGTGGCGTGGTTCGCACAGGAACCCTCATTGCCCTGGACGTCTGCTCCGGCAGTGCAGT
 CCGAGGGTCTCCTTGGGCCCTTCAGCTTTGTAAGGAAGATGAGAGAGAGTGGCCGTTGATGGTGCAGAC
 TGAGGCTCAGTACGTATCCTGCATCAGTGCATCCTGCGGTTCTCCAACAGTACGCCAGGCCCCAGCC
 GAGAAGGAAGTCCCGTATGAGGATGCGAAAACCTCATCTACGAGAACGTGGCCGCCATCAAGGCCACA
 AGTTGGAGGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC229043 representing NM_001161440
 Red=Cloning site Green=Tags(s)

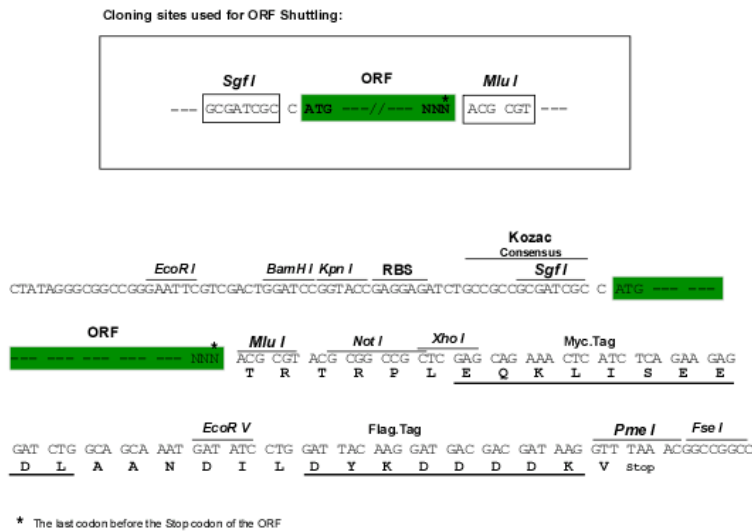
MAGAGGGLGVWGNL VLLGLCSWTGARAPAPNPGRNLTVETQTTSSISLSWEVPDGLDSQNSNYWVQCTGD
 GGTTE TRNTTATNVTVDGLGPGSLYTC SVWVEKDVNSSVEIVTSATAPNPVRNL TVEAQTNSSIALTWE
 VPDGPDQPNSTYGYEYTDGGRAGTRSTAHTNITVDRLEPGCLYVFSVWVGKNGINSSRETRNATTAPNP
 VRNLHMETQTNSSIALCWEVPDGPYPQDYTYWVEYTDGGGGTETRNTTNTSVTAERLEPGTLTYFSVWAE
 KNGARGSRQNVSISTV PNAVTSLSKQDWTNSTIALRWTAPQGGQSSYSYWVSWVREGMDPRTQSTSGT
 DITLKELEAGSLYHLTVWAERNEVRGYNSTLTAATAPNEVTDLQNETQTKNSVMLWVKAPGDPHSQLYVY
 WVQWASKGHPRRGQDPQANWVNQTSRTNETWYKVEALEPGTLYNFTVWAERNVASTQSLCASTYPDTV
 TITSCVSTSAGYGVNLIWSCPQGGYEA FELEVGGQRGSQDRSSCGEAVSVLGLGPARSYPATITTIWDMG
 KVVSHSVVCHTESAGVIAGAFVGI LLFLILVGLL IFFLKRNRKKKQKPELRDLV FSSPGDIPAEDFADH
 VRKNERDSNCGFADEYQQLSLVGHSSQSMVASASENNAKNRYRNVL PYDWSRVPLKPIHEEPGSDYINAS
 FMPGLWSPQEF IATQGPLPQTVGDFWRLVWEQQSHTLVMLTNCMEAGRVKCEHYWPLDSQPCTHGLRVT
 LVDEEV MENWTVRELLLLQVEEQKTL SVRQFHYQAWPDHGV PSSPDTLLAFWRMLRQWLDQTMEGGPPIV
 HCSAGVGRGTGLIALDVLRLQLQSEGLLGPFSFVRKMR SRPLMVQTEAQYVFLHQCILRFLQSSAQAPA
 EKEVPYEDVENLIYENVAAIKAHKLEV

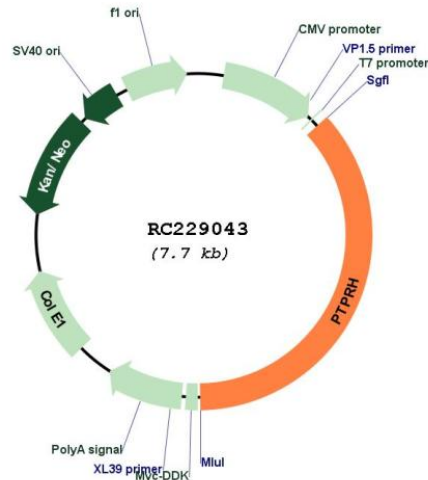
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001161440

ORF Size: 2811 bp

OTI Disclaimer: 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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001161440.3](#)

RefSeq ORF:	2814 bp
Locus ID:	5794
UniProt ID:	Q9HD43
Cytogenetics:	19q13.42
Protein Families:	Druggable Genome, Transmembrane
MW:	103.2 kDa

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]