

Product datasheet for **RC215011**

SAP1 (PTPRH) (NM_002842) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SAP1 (PTPRH) (NM_002842) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SAP1
Synonyms:	R-PTP-H; SAP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC215011 representing NM_002842 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

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ATTGCTTTGCGCTGGACAGCTCCCCAGGGCCCAGGCCAGTCTTCTACAGCTACTGGGTCTCATGGGTCA
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Protein Sequence:

>RC215011 representing NM_002842
Red=Cloning site Green=Tags(s)

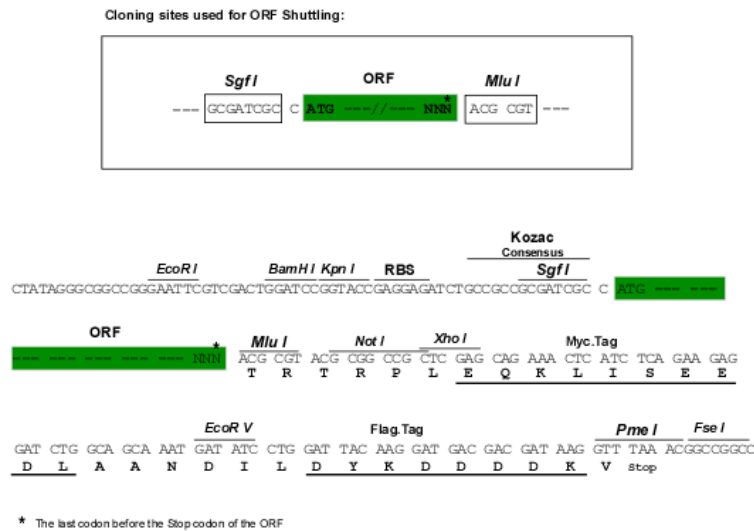
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3642_g05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002842

ORF Size: 3345 bp

OTI Disclaimer: 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_002842.5](#)

RefSeq Size: 3895 bp

RefSeq ORF: 3348 bp

Locus ID: 5794

UniProt ID: [Q9HD43](#)

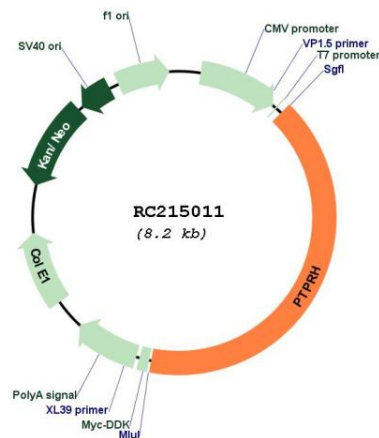
Cytogenetics: 19q13.42

Protein Families: Druggable Genome, Transmembrane

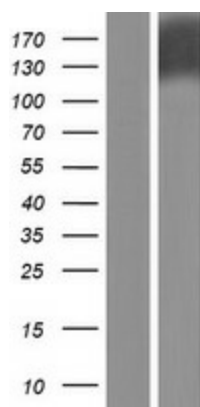
MW: 122.2 kDa

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]

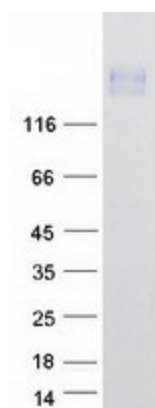
Product images:



Circular map for RC215011



Western blot validation of overexpression lysate (Cat# [LY419070]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215011 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PTPRH protein (Cat# [TP315011]). The protein was produced from HEK293T cells transfected with PTPRH cDNA clone (Cat# RC215011) using MegaTran 2.0 (Cat# [TT210002]).