

Product datasheet for **RC206421**

PSTPIP2 (NM_024430) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSTPIP2 (NM_024430) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PSTPIP2
Synonyms:	MAYP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC206421 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACGCGCTCACTGTTCAAGGAACTTTGGAGTGCAGACATCCTCAGCACCATCGGCTATGACAACA
TTATCCAACATCTGAACAATGGCCGCAAGAAGCTGCAAAGAGTTTGAAGACTTTCTAAAAGAAAGGGCAGC
AATTGAAGAGAGGTATGGCAAAGATCTGCTCAACCTCTCTAGGAAGAAGCCGTGTGGACAGTCTGAAATC
AACACCCTGAAGCGGCCCTTGAAGTCTTCAAGCAGCAAGTAGACAATGTGGCACAATGTCACATTCAGC
TTGCACAGAGTTAAGAGAAGAGGCCAGGAAGATGGAAGAATTCAGGGAAAAGCAAAAACATAACGAAA
AAAGACAGAGCTCATAATGGATGCTATCCATAAACAAGAGCTTACAATTCAAGAAAACCATGGATGCA
AAGAAGAACTATGAGCAGAAATGCCGGGACAAAGATGAGGCAGAACAGGCCGTCAGCCGGAGTGCCAACC
TGGTGAACCCGAAGCAACAAGAAAAGCTTTTTGTGAAACTGGCAACTTCAAAGACCCAGTAGAGGACTC
AGACAAAGCATACATGCTGCACATCGGCACCCTGGATAAGGTCCGAGAAGAGTGGCAGAGTGAACATC
AAGGCCTGCGAGGCATTTGAGGCTCAAGAATGTGAACGAATAAATTCTTCCGGAATGCATTGTGGTTAC
ATGTGAATCAGCTGTCAACAATGTGTACCAGTGATGAACCCATCATGTATGAGAATTTCTACTCC
TCCCAGAAGAATGCAGTCCCAGCAGGAAAGGCTACAGGGCCTAATTGGCAAGGAGAGGACCCCTCCCAA
TTCCTAAAAGCTCACCAGATGATCCCAATTACTCTTTGGTTGATGACTACAGTTTGTCTATCAGTAAAA
TCAATGAAACCGAGCTTTTTCCGGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC206421 protein sequence
Red=Cloning site Green=Tags(s)

MTRSLFKGNFWSADILSTIGYDNI IQHLNNGRKNCKEFEDFLKERAAIEERYGKDLLNLSRKKPCGQSEI
 NTLKRALEVFVKQQVDNVAQCHIQLAQLSREARKMEEFREKQKLQRKKTTELIMDAIHKQKSLQFKKTMDA
 KKNYEQKCRDKDEAEQAVSRSANLVNPKQEQKLFVKLATSKTAVEDSDKAYMLHIGTLDKVREEWQSEHI
 KACEAFEAEQECERINFFRNALWLHVNLQSQQCVTSDEHPSCMRISTPPRRMQSQQERLQGLTWQGEDPSQ
 FLKAHQMIPITLWMLTTVCSISKINETRAFSG

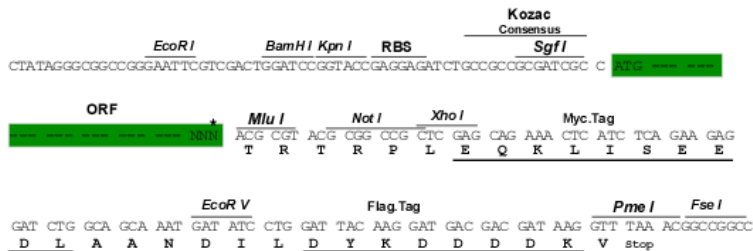
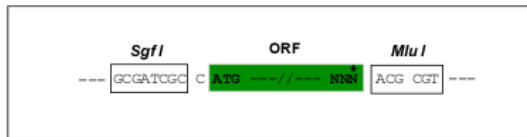
TRTRPLEQKLISEEDLAANDILDYKDDDDKLV

Chromatograms: https://cdn.origene.com/chromatograms/mk6018_c04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_024430

ORF Size: 936 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.

RefSeq: [NM_024430.2](#), [NP_077748.2](#)

RefSeq Size: 3054 bp

RefSeq ORF: 1005 bp

Locus ID: 9050

UniProt ID: [Q9H939](#)

Cytogenetics: tdb7990

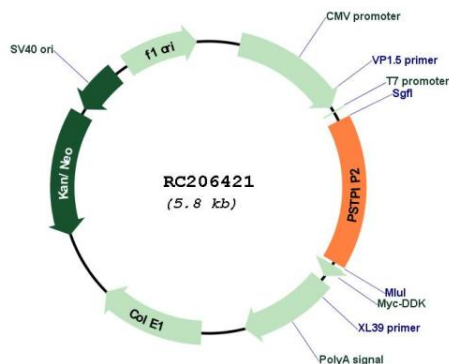
Domains: FCH

Protein Families: Druggable Genome

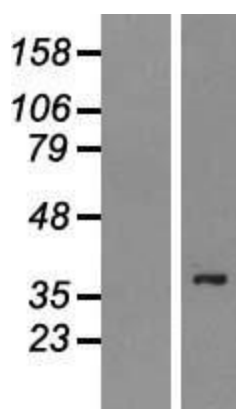
MW: 36.4 kDa

Gene Summary: Binds to F-actin. May be involved in regulation of the actin cytoskeleton (By similarity).
[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC206421



Western blot validation of overexpression lysate (Cat# [LY411279]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206421 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).