

Product datasheet for MR217594

Pstpip1 (NM_011193) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pstpip1 (NM_011193) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pstpip1
Synonyms:	CD2BP1; def-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR217594 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGATGGCCAGCTGCAGTTCGAGATGCCTTCTGGTGCAGGGACTTCACGGCCACACAGGGTATGAGG
TGCTACTGCAGAGGCTGCTGGACGGCAGGAAGATGTGCAAGGATGTGGAGGAGCTGCTCAGACAGAGGGC
CCAGGCGGAGGAGAGGTACGGGAAGGAGCTGGTGCAGATTGCACGCAAGGCTGGTGGCCAGACAGAGATG
AATTCCCTGAGGACCTCCTTTGACTCCCTGAAGCAGCAAACAGAGAATGTGGGCAGTGCACACATCCAGC
TGGCCCTGGCCCTGCGTGAGGAGCTGCGGAGCCTGGAGGAGTTCGAGAGAGACAGAAAGAGCAGCGGAA
GAAGTATGAGGCCATCATGGACCGTGTCCAGAAGAGCAAGTTGTGCTCTACAAGAAGACCATGGAGTCC
AAGAAGGCATATGACCAGAAGTGCAGGGATGCAGATGATGCTGAGCAGGCCTTCGAGCGTGTGAGTGCCA
ATGGCCACCAGAAGCAAGTAGAAAAGAGCCAGAACAAAGCCAAGCAGTGAAGGAGTCAAGGAGTCAAGAGGC
AGAAAGAGTGTACAGGCAAAATATCGAACAACTGGAGAGAGCGAGGACCGAGTGGGAGCAGGAGCACCGG
ACTACCTGTGAGGCTTCCAGTTGCAGGAGTTTGACCGGCTCACCATCCTCCGCAACGCCCTGTGGGTGC
ACTGTAACCAGCTCTCCATGCAGTGTGTCAAGGATGATGAGCTCTATGAGGAAGTGGCGTGACCCTTGA
GGGCTGTGATGTGGAAGGTGACATCAATGGCTTCCAGTCCAAGAGCACTGGCAGAGAGCCCCAGCT
CCGGTGCCTTATCAGAACTACTATGACAGGGAGGTGACCCCACTGATTGGCAGCCCTAGCGTCCAGCCCT
CCTGTGGTGTGATAAAGAGGTTCTCTGGGCTGCTACATGGAAGTCCCAAGACCACACCTTCTGCTCCTGC
TGCTTCCACAGAGACTCTGACTCCACCCCTGAGCGGAATGAGTTGGTCTACGCATCCATCGAAGTGCAG
GCGACCCAGGAAACCTTAACCTCATCAGCCAGGACTACCGGCACTCTACGACTACACCGCACAGAATT
CTGATGAGCTGGACATTTCCGCGGGAGACATCCTGGCGGTATCCTGGAAGGGGAGGATGGCTGGTGGAC
TGTGGAGCGGAACGGAACGTTGCTCCCTGGGTGCTACTTGGAGAAGCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR217594 protein sequence
 Red=Cloning site Green=Tags(s)

MMAQLQFRDAFWCRDFTAHTGYEVLLQRLLDGRKMCKDVEELLRQRAQAEERYGKELVQIARKAGGQTEM
 NSLRTSFDLSLKQQTENVGSAHIQLALALREELRSLEEFRRERQKEQRKKYEAIMDRVQKSKLSLYKKTMS
 KKAYDQKCRDADDAEQAFERVSANGHQKQVEKSONKAKQCKESATEAERVYRQNIQLERARTEWEQEHR
 TTCEAFQLQEFDRLTILRNALVWHCNQLSMQCVDDEL YEEVRL TLEGCDVEGDINGFIQSKSTGREPPA
 PVPYQNYDYDREVTPILIGSPSVQPCGVIKRFSGLLHGSPKTTSPASPAASTETLPTPERNELVYASIEVQ
 ATQGNLNSSAQDYRALYDYTAQNSDELDISAGDILAVILEGEDGWWTVERNGQRGFVPGSYLEKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_011193

ORF Size: 1248 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_011193.1](#), [NM_011193.2](#), [NM_011193.3](#), [NP_035323.2](#)

RefSeq Size: 1853 bp

RefSeq ORF: 1248 bp

Locus ID: 19200

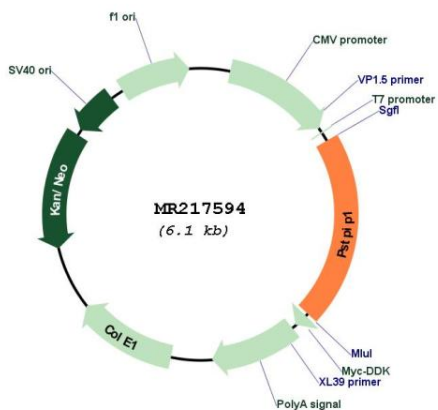
UniProt ID: [P97814](#)

Cytogenetics: 9 B

MW: 47.6 kDa

Gene Summary: Involved in regulation of the actin cytoskeleton. May regulate WAS actin-bundling activity. Bridges the interaction between ABL1 and PTPN18 leading to ABL1 dephosphorylation. May play a role as a scaffold protein between PTPN12 and WAS and allow PTPN12 to dephosphorylate WAS. Has the potential to physically couple CD2 and CD2AP to WAS. Acts downstream of CD2 and CD2AP to recruit WAS to the T-cell:APC contact site so as to promote the actin polymerization required for synapse induction during T-cell activation. Down-regulates CD2-stimulated adhesion through the coupling of PTPN12 to CD2. Also has a role in innate immunity and the inflammatory response. Recruited to inflammasomes by MEFV. Induces formation of pyroptosomes, large supramolecular structures composed of oligomerized PYCARD dimers which form prior to inflammatory apoptosis. Binding to MEFV allows MEFV to bind to PYCARD and facilitates pyroptosome formation. Regulates endocytosis and cell migration in neutrophils.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR217594