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Product datasheet for RC217707

SSH3BP1 (ABI1) (NM_005470) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SSH3BP1 (ABI1) (NM_005470) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SSH3BP1
Synonyms:	ABI-1; ABLBP4; E3B1; NAP1BP; SSH3BP; SSH3BP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC217707 representing NM_005470
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAGAGCTGCAGATGTTACTAGAGGAGGAGATCCCGTCTGGCAAGAGGGCGCTGATCGAGAGTTACC
AGAACCTGACTCGGGTGGCAGACTACTGTGAAAACAACTACATACAGGCTACAGACAAGAGAAAAGCTTT
AGAGGAGACCAAAGCCTATACAACCCAATCTCTAGCTAGTGTTGCTTATCAAATAAATGCATTGGCCAAC
AATGTACTCCAGTTGCTGGATATCCAAGCCTCTCAGCTTCGGAGAATGGAGTCTTCCATCAATCATATCT
CACAGACTGTGGATATTCATAAGGAGAAAGTGGCACGAAGAGAGATTGGTATTTTGACAACAAATAAGAA
TACATCAAGAACTCACAAAATAATAGCACCTGCGAATATGGAGCGCCCTGTAAGGTATATTCGGAAACCT
ATCGATTACACAGTTCTGGATGATGTGGGCCATGGTGTCAAGTGGCTAAAAGCCAAGCATGGAAATAACC
AGCCTGCAAGAACTGGCACACTGTCGAGAACAAATCCTCCTACTCAGAAACCGCCAAGTCCTCCCATGTC
AGGCCGGGGAACACTGGGACGGAATACTCCTTATAAAACCCTGGAACCTGTTAAACCCCCAACAGTTCCT
AATGACTATATGACCAGTCCTGCTAGGCTTGGAAGTCAGCATAGTCCAGGCAGGACAGCATCTTTAAATC
AGAGACCAAGGACACACAGTGGAAGTAGTGGAGGAAGTGGAAGTCGAGAAAACAGTGGTAGCAGTAGTAT
TGGCATTCCCATTGCTGTGCCTACACCTTCGCCACCCACTATTGGACCAGCCCCGGGCTCAGCTCCTGGT
TCCCAGTATGGCACAATGACCAGGCAGATATCTCGACACAACTCTACTACTTCTTCGACATCTTCTGGTG
GATACAGACGAACTCCCTCTGTGACTGCTCAATTTTCTGCTCAGCCTCATGTTAATGGAGGTCCACTTTA
TTCTCAAAATTCAATTGCTGATAGTCCAACTCCACCGCCACCACCTCCACCAGATGACATTCCCATGTTT
GATGACTCTCCACCTCCCCCACCACCACCACCAGTGGATTATGAAGATGAGGAGGCTGCAGTAGTTCAGT
ATAATGATCCATATGCAGATGGGGATCCTGCTTGGGCCCCCAAGAATTATATTGAGAAAGTTGTTGCAAT
ATATGATTATACAAAAGACAAGGATGATGAGCTGTCATTTATGGAGGGTGCAATCATTTATGTTATAAAG
AAGAATGATGATGGCTGGTATGAAGGAGTCTGCAATCGAGTGACTGGTCTGTTCCCTGGGAACTATGTTG
AATCAATCATGCACTATACTGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC217707 representing NM_005470
Red=Cloning site Green=Tags(s)

MAELQMLLEEEIPSGKRALIESYQNLTRVADYCENNYIQATDKRKALEETKAYTTQSLASVAYQINALAN
NVLQLLDIQASQLRRMESSINHISQTVDIHKEKVARREIGILTTNKNTSRTHKIIAPANMERPVRYIRKP
IDYTVLDDVGHGVKWLKAKHGNNQPARTGTLSRTNPPTQKPPSPPMSGRGTLGRNTPYKTLEPVKPPTVP
NDYMTSPARLGSQHSPGRTASLNQRPRTHSGSSGGSGSRENSGSSSIGIPIAVPTPSPPTIGPAPGSAPG
SQYGTMTRQISRHNSTTSSTSSGGYRRTPSVTAQFSAQPHVNGGPLYSQNSIADSPTPPPPPPPDDIPMF
DDSPPPPPPPPVDYEDEEAAVVQYNDPYADGDPAWAPKNYIEKVVAIYDYTKDKDDELSFMEGAIIYVIK
KNDDGWYEGVCNRVTGLFPGNYVESIMHYTD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2590_a01.zip

Restriction Sites: SgfI-MluI

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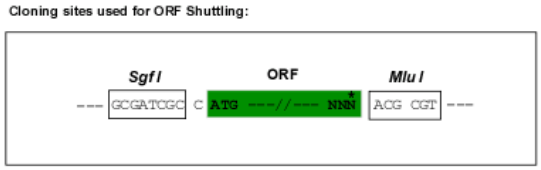
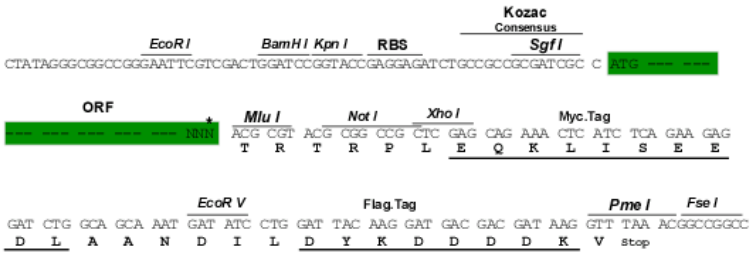
Cloning Scheme:





* The last codon before the Stop codon of the ORF

ACCN: NM_005470

ORF Size: 1353 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 Size: 3725 bp

RefSeq ORF: 1527 bp

Locus ID: 10006

UniProt ID: Q8IZP0

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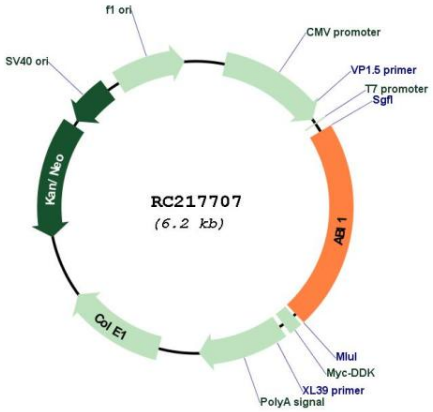
Cytogenetics: 10p12.1

Domains: SH3

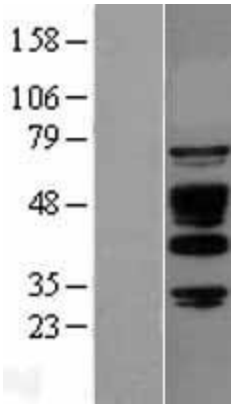
MW: 55.1 kDa

Gene Summary: This gene encodes a member of the Abelson-interactor family of adaptor proteins. These proteins facilitate signal transduction as components of several multiprotein complexes, and regulate actin polymerization and cytoskeletal remodeling through interactions with Abelson tyrosine kinases. The encoded protein plays a role in macropinocytosis as a component of the WAVE2 complex, and also forms a complex with EPS8 and SOS1 that mediates signal transduction from Ras to Rac. This gene may play a role in the progression of several malignancies including melanoma, colon cancer and breast cancer, and a t(10;11) chromosomal translocation involving this gene and the MLL gene has been associated with acute myeloid leukemia. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and a pseudogene of this gene is located on the long arm of chromosome 14. [provided by RefSeq, Sep 2011]

Product images:



Circular map for RC217707



Western blot validation of overexpression lysate (Cat# [LY401677]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217707 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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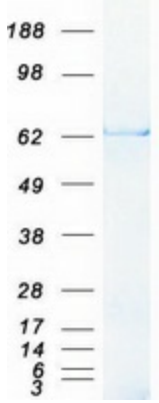

Coomassie blue staining of purified ABI1 protein (Cat# [TP317707]). The protein was produced from HEK293T cells transfected with ABI1 cDNA clone (Cat# RC217707) using MegaTran 2.0 (Cat# [TT210002]).

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