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Product datasheet for RC219860

SH3BP1 (NM_018957) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SH3BP1 (NM_018957) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SH3BP1
Synonyms:	ARHGAP43
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC219860 representing NM_018957
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATGAAGAGGCAGCTGCACCGCATGCGGCAGCTGGCCCAGACGGGCAGCTTGGGACGCACCCCGGAGA
CCGCTGAGTTCCTGGGTGAGGACCTGCTGCAGGTAGAACAGCGGCTGGAGCCGGCCAAGCGGGCAGCCCA
CAACATCCACAAGCGGCTGCAGGCCTGTCTGCAGGGCCAGAGCGGGGCAGACATGGACAAGCGGGTGAAG
AAGCTTCCCCTCATGGCTCTGTCCACCACGATGGCTGAGAGCTTCAAGGAGCTGGACCCTGATTCCAGCA
TGGGGAAGGCCTTGGAGATGAGCTGTGCCATCCAGAATCAGCTGGCCCGCATCCTGGCCGAGTTTGAGAT
GACCCTGGAGAGGGACGTCCTGCAGCCACTCAGCAGGCTGAGTGAGGAGGAGCTGCCAGCCATCCTCAAA
CACAAGAAAAGCCTCCAGAAGCTCGTGTCCGACTGGAACACACTCAAGAGCAGGCTCAGTCAGGCAACCA
AGAATTCAGGCAGCAGTCAAGGCCTAGGAGGCAGCCCGGGTAGTCACAGCCATACGACCATGGCCAACAA
GGTGGAGACGCTGAAGGAGGAGGAGGAGGAGCTGAAGAGGAAAGTGGAGCAATGCAGGGACGAGTACTTG
GCTGACCTGTACCACTTTGTTACCAAGGAGGACTCCTATGCCAACTACTTCATTCGTCTCCTGGAGATTC
AGGCCGATTACCATCGCAGGTCACTGAGCTCGCTGGACACAGCCCTGGCTGAGCTGAGGGAGAACCACGG
CCAAGCAGACCACTCCCCTTCGATGACAGCCACCCACTTCCCCAGGGTGTATGGGGTGTCGCTGGCAACC
CACCTGCAAGAGCTGGGCCGGGAGATTGCCCTGCCCATCGAGGCCTGCGTCATGATGCTGCTTTCTGAGG
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GGCCTCGGACCCCCACAGCCTGGAGGAGTTCTGCTCCGACCCGCACGCTGTGGCAGGTGCCCTCAAGTCC
TATCTGCGGGAGCTGCCAGAGCCTCTGATGACCTTCGACCTCTATGATGACTGGATGAGGGCAGCCAGCC
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GGTGCCTCCCAGACCAGCCTCCCCCAAGGTCACCAGGAGTCCCCCGGAGACAGCTGCCCCAGTGGAGGAC
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ACGTCTGGTTGGCAGCAGCCTCCGAGCCCCCACAGTGCCACCCCCGTTACCCCCCACACCCCCTCAGCCT
GCCCGGCGCCAAAGCCGGCGTTCACCAGCCTCCCCCAGCCCGGCCTCCCCAGGTCCAGCCTCCCCCAGCC
CAGTCTCTTTGAGTAACCCTGCACAGGTGGACCTGGGGGCTGCCACAGCAGAGGGAGGAGCCCCTGAGGC
TATCAGTGGGGTCCCCACTCCCCCAGCTATCCCCCCTCAGCCCCGCCCCAGGAGCCTTGCCTCAGAGACC
AAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC219860 representing NM_018957
Red=Cloning site Green=Tags(s)

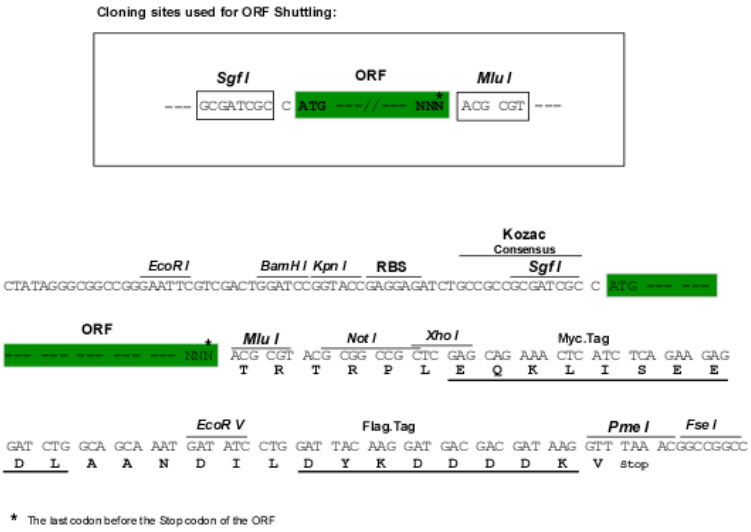
MMKRQLHRMRQLAQTGSLGRTPETAEFLGEDLLQVEQRLEPAKRAAHNIHKRLQACLQGQSGADMDKRVK
KLPLMALSTTMAESFKELDPDSSMGKALEMSCAIQNQLARILAEFEMTLERDVLQPLSRLSEEELPAILK
HKKSLQKLVSDWNTLKSRLSQATKNSGSSQGLGGSPGSHSHTTMANKVETLKEEEEELKRKVEQCRDEYL
ADLYHFVTKEDSYANYFIRLLEIQADYHRRSLSSLDTALAELRENHGQADHSPSMTATHFPRVYGVSLAT
HLQELGREIALPIEACVMMLLSEGMKEEGLFRLAAGASVLKRLKQTMASDPHSLEEFCSDPHAVAGALKS
YLRELPEPLMTFDLYDDWMRAASLKEPGARLQALQEVCSRLPPENLSNLRYLMKFLARLAEEQEVNKMTP
SNIAIVLGPNLLWPPEKEGDQAQLDAASVSSIQVVGVVEALIQSADTLFPGDINFNVSGLFSAVTLQDTV
SDRLASEELPSTAVPTPATTPAPAPAPAPAPAPALASAATKERTESEVPPRPASPKVTRSPPETAAPVED
MARRTKRPAPARPTMPPPQVSGSRSSPPAPPLPPGSGSPGTPQALPRRLVGSSLRAPTVPPPLPPTPPQP
ARRQSRRSPASPSPASPGPASPSPVSLSNPAQVDLGAATAEGGAPEAISGVPTPPAIPPQPRPRSLASET
N

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6254_d05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018957

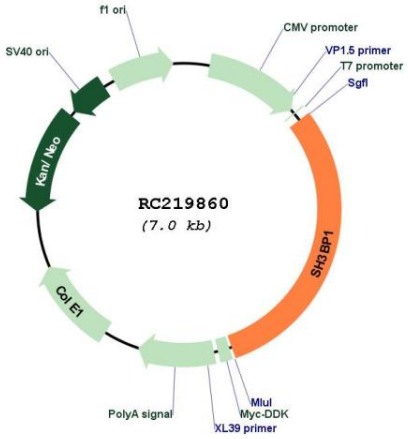
ORF Size: 2103 bp

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

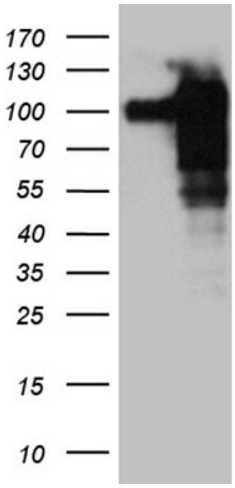
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_018957.6
RefSeq Size:	2592 bp
RefSeq ORF:	2106 bp
Locus ID:	23616
UniProt ID:	Q9Y3L3
Cytogenetics:	22q13.1
Domains:	RhoGAP
MW:	75.5 kDa
Gene Summary:	This gene encodes a member of the Rho GTPase activating protein (RhoGAP) family. The encoded protein regulates Rac signaling and plays a role in cytoskeletal dynamics, cell motility and epithelial junction formation. This protein's association with the exocyst complex, which tethers secretory vesicles to the plasma membrane, has been demonstrated to be important in cell motility. In a distinct complex, this protein has been shown to regulate epithelial junction formation and morphogenesis. By interacting with the Plexin-D1 cell surface receptor, this protein mediates changes in the cytoskeleton in response to semaphorin binding. This protein may promote metastasis in human liver cancer cells and tissues. [provided by RefSeq, Mar 2017]

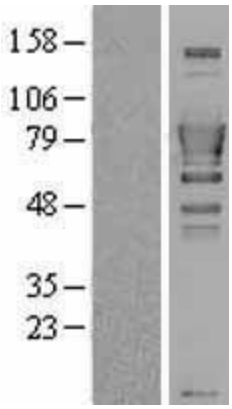
Product images:



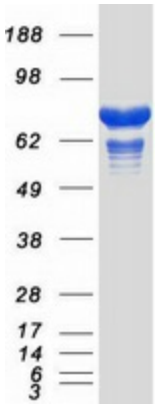
Circular map for RC219860



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SH3BP1 (Cat# RC219860, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SH3BP1 (Cat# [TA811580])(1:2000). Positive lysates [LY412861] (100ug) and [LC412861] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY412861]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219860 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SH3BP1 protein (Cat# [TP319860]). The protein was produced from HEK293T cells transfected with SH3BP1 cDNA clone (Cat# RC219860) using MegaTran 2.0 (Cat# [TT210002]).