

## Product datasheet for RC210626

### HSPC142 (BABAM1) (NM\_001033549) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HSPC142 (BABAM1) (NM_001033549) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HSPC142
Synonyms:	C19orf62; HSPC142; MERIT40; NBA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC210626 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAAGTGGCAGAGCCAGCAGCCCCACTGAAGAGGAGGAGGAGGAAGAGGAGCACTCGGCAGAGCCTC  
GGCCCCGCACTCGCTCCAATCCTGAAGGGGCTGAGGACCGGGCAGTAGGGGCACAGGCCAGCGTGGGCAG  
CCGCAGCGAGGGTGAGGGTGAGGCCGCCAGTGCTGATGATGGGAGCCTCAACACTTCAGGAGCCGGCCCT  
AAGTCTGGCAGGTGCCCCGCCAGCCCTGAGGTCAAATTCGGACACCAAGGGTCAACTGTCCAGAGA  
AAGTGATTATCTGCCTGGACCTGTCAGAGGAAATGTCAGTCCAAAGCTGGAGTCGTTCAACGGCTCCAA  
AACCAACGCCCTCAATGTCTCCAGAAAGATGATTGAGATGTTCTGTCGGACAAAACAAGATCGACAAA  
AGCCACGAGTTTGCCTGGTGGTGAACGATGACACGGCTGGCTGTCTGGCCTGACCTCCGACCCCC  
GCGAGCTCTGTAGCTGCCTCTATGATCTGGAGACGGCCTCCTGTTCCACCTTCAATCTGGAAGGACTTTT  
CAGCCTCATCCAGCAGAAAAGTCCGGTCCAGAGAACGTCAGACGATTCCCCGCCATATGTG  
GTCCGCACCATCCTTGTCTACAGCCGTCACCTTGCCAGCCCCAGTTCCTTGACGGAGCCCATGAAGA  
AAATGTTCCAGTGCCCATATTTCTTCTTGGACGTTGTTTACATCCACAATGGCACTGAGGAGAAGGAGGA  
GGAGATGAGTTGGAAGGATATGTTTGCCTTCATGGGCAGCCTGGATACCAAGGGTACCAGCTACAAGTAT  
GAGGTGGCACTGGCTGGCCAGCCCTGGAGTTGCACAAGTGCATGGCGAAACTGTTGGCCACCCCTGC  
AGCGGCCTTGCCAGGCCATGCTTCTACAGCCTGCTGGAGGAGGAGGATGAAGCCATTGAGGTTGAGGC  
CACTGTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAAGTCCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC210626 protein sequence  
Red=Cloning site Green=Tags(s)

```
MEVAEPSSPTEEEEEEHSAEPRPRTRSNEPGAEDRAVGAQASVGSRSEGEAASADDGSLNTSGAGP
KSWQVPPPAPEVQIRTPRVNCPKVIICLDLSEEMSLPKLESFNGSKTNALNVSQKMIEMFVRTKHKIDK
SHEFALVVVNDTAWLSGLTSDPRELCSCLYDLETASCSTFNLEGLFSLIQQKTELPVTENVQTIPPPYV
VRTILVYSRPPCQPQFSLTEPMKKMFQCPYFFFDVVYIHNGTEEEKEEEMSWKDMFAFMGSLDTKGTSYKY
EVALAGPALELHNCMAKLLAHLPLQRPCQSHASYSLLLEEDEAIEVEATV
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6367\\_f08.zip](https://cdn.origene.com/chromatograms/mk6367_f08.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001033549

**ORF Size:** 987 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\\_001033549.2](#)

**RefSeq Size:** 1505 bp

**RefSeq ORF:** 990 bp

**Locus ID:** 29086

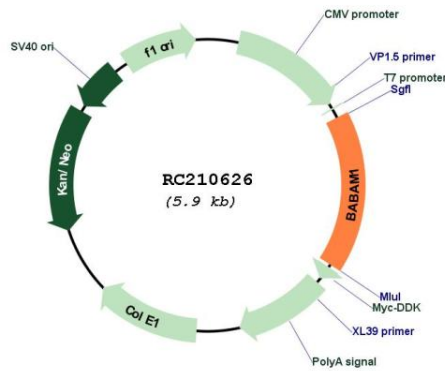
**UniProt ID:** [Q9NWW8](#)

**Cytogenetics:** 19p13.11

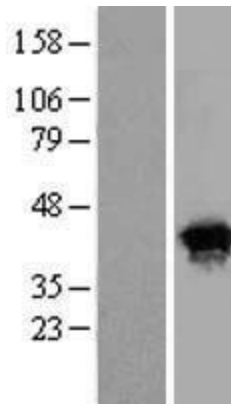
**MW:** 36.6 kDa

**Gene Summary:** Component of the BRCA1-A complex, a complex that specifically recognizes 'Lys-63'-linked ubiquitinated histones H2A and H2AX at DNA lesions sites, leading to target the BRCA1-BARD1 heterodimer to sites of DNA damage at double-strand breaks (DSBs). The BRCA1-A complex also possesses deubiquitinase activity that specifically removes 'Lys-63'-linked ubiquitin on histones H2A and H2AX. In the BRCA1-A complex, it is required for the complex integrity and its localization at DSBs. Component of the BRISC complex, a multiprotein complex that specifically cleaves 'Lys-63'-linked ubiquitin in various substrates (PubMed:24075985, PubMed:26195665). In these 2 complexes, it is probably required to maintain the stability of BABAM2 and help the 'Lys-63'-linked deubiquitinase activity mediated by BRCC3/BRCC36 component. The BRISC complex is required for normal mitotic spindle assembly and microtubule attachment to kinetochores via its role in deubiquitinating NUMA1 (PubMed:26195665). Plays a role in interferon signaling via its role in the deubiquitination of the interferon receptor IFNAR1; deubiquitination increases IFNAR1 activity by enhancing its stability and cell surface expression (PubMed:24075985). Down-regulates the response to bacterial lipopolysaccharide (LPS) via its role in IFNAR1 deubiquitination (PubMed:24075985).[UniProtKB/Swiss-Prot Function]

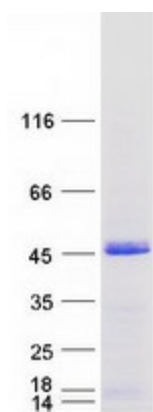
Product images:



Circular map for RC210626



Western blot validation of overexpression lysate (Cat# [LY422382]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210626 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified BABAM1 protein (Cat# [TP310626]). The protein was produced from HEK293T cells transfected with BABAM1 cDNA clone (Cat# RC210626) using MegaTran 2.0 (Cat# [TT210002]).