

## Product datasheet for **SC335375**

### HSPC142 (BABAM1) (NM\_001288756) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** HSPC142 (BABAM1) (NM\_001288756) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** BABAM1  
**Synonyms:** C19orf62; HSPC142; MERIT40; NBA1  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC335375 representing NM\_001288756.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

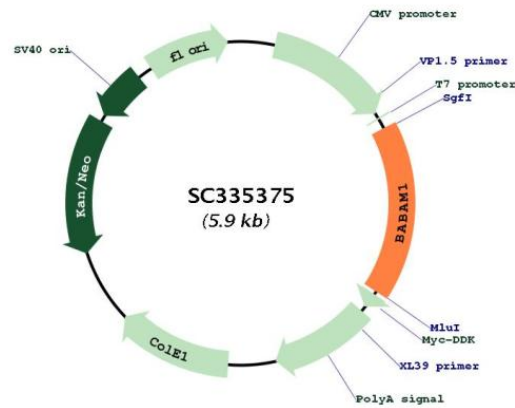
```
ATGGAAGTGGCAGAGCCAGCAGCCCCACTGAAGAGGAGGAGGAGGAAGAGGAGCACTCGGCAGAGCCT
CGGCCCCGCACTCGCTCCAATCCTGAAGGGGCTGAGGACCGGGCAGTAGGGGCACAGGCCAGCGTGGGC
AGCCCGCAGCGAGGGTGAGGGTGAGGCCGCCAGTGCTGATGATGGGAGCCTCAACACTTCAGGAGCCGGC
CCTAAGTCCTGGCAGGTGCCCCGCCAGCCCCTGAGGTCCAAATTCGGACACCAAGGGTCAACTGTCCA
GAGAAAGTGATTATCTGCCTGGACCTGTCAGAGGAAATGTCAGTCCAAAGCTGGAGTCGTTCAACGGC
TCCAAAACCAACGCCCTCAATGTCTCCCAGAAGATGATTGAGATGTTTCGTGCGGACAAAACAAGATC
GACAAAAGCCACGAGTTTGCAGTGGTGGTGAACGATGACACGGCCTGGCTGTCTGGCCTGACCTCC
GACCCCGCGAGCTCTGTAGCTGCCTCTATGATCTGGAGACGGCCTCCTGTTCCACCTTCAATCTGGAA
GGACTTTTCAGCCTCATCCAGCAGAAAAGTGGCTTCCGGTCACAGAGAACGTGCAGACGATTCCCCCG
CCATATGTGGTCCGACCATCCTTGCTACAGCCGTCCACCTTGGCAGCCCCAGTTCTCCTTGACGGAG
CCCATGAAGAAAATGTTCCAGTGGCCATATTTCTTCTTTGACGTTGTTTACATCCACAATGGCACTGAG
GAGAAGGAGGAGGAGATGAGTTGGAAGGATATGTTTGCCTTCATGGGCAGCCTGGATACCAAGGGTACC
AGCTACAAGTATGAGGTGGCACTGGCTGGGCCAGCCCTGGAGTTGCACAAGTGCATGGCGAAACTGTTG
GCCCCCCCCTGCAGCGCCTTGGCAGAGCCATGCTTCTACAGCCTGCTGGAGGAGGAGGATGAAGCC
ATTGAGGTTGAGGCCACTGTC
```

**Restriction Sites:** Sgfl-Mlul



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## Plasmid Map:



ACCN: NM\_001288756

Insert Size: 990 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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\\_001288756.1](https://www.ncbi.nlm.nih.gov/RefSeq/ accession/nm_001288756.1)

RefSeq Size: 1456 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]

Transcript Variant: This variant (3) differs in the 5' UTR, compared to variant 1. Variants 1, 2 and 3 encode the same isoform (1).