

## Product datasheet for **RG236967**

### HSPC142 (BABAM1) (NM\_001288757) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HSPC142 (BABAM1) (NM_001288757) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HSPC142
Synonyms:	C19orf62; HSPC142; MERIT40; NBA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG236967 representing NM_001288757. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAAGTGCCAGAGCCAGCAGCCCACTGAAGAGGAGGAGGAGGAAGAGGAGCACTCGGCAGAGCCT
CGGCCCGCACTCGCTCCAATCCTGAAGGGGCTGAGGACCGGCAGTAGGGGCACAGCCAGCGTGGGC
AGCCGCAGCGAGGGTGAGGGTGAGGCCGCCAGTGCTGATGATGGGAGCCTCAACACTTCAGGAGCCGGC
CCTAAGTCTGGCAGGTGCCCGCCAGCCCTGAGGTCAAATTCGGACACCAAGGGTCAACTGTCCA
GAGAAAGTGATTATCTGCCTGGACCTGTCAGAGGAAATGTCAGTCCAAAGCTGGAGTCGTTCAACGGC
CAGCAGAAAAGTGAAGTTCGGTCCAGAGAACGTGCAGACGATTCGCCCGCCATATGTGGTCCGCACC
ATCCTTGCTACAGCCGTCCACCTTGCCAGCCCAAGTTCTCCTTGACGGAGCCCATGAAGAAAATGTTT
CAGTGCCCATATTTCTTCTTTGACGTTGTTTACATCCACAATGGCACTGAGGAGAAGGAGGAGGATG
AGTTGGAAGGATATGTTTGCCTTCATGGGCAGCCTGGATACCAAGGGTACCAGCTACAAGTATGAGGTG
GCACTGGCTGGGCCAGCCCTGGAGTTGCACAAGTGCATGGCGAAACTGTTGGCCACCCCTGCAGCGG
CCTTGCCAGGCCATGCTTCTACAGCCTGCTGGAGGAGGAGGATGAAGCCATTGAGGTTGAGGCCAT
GTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



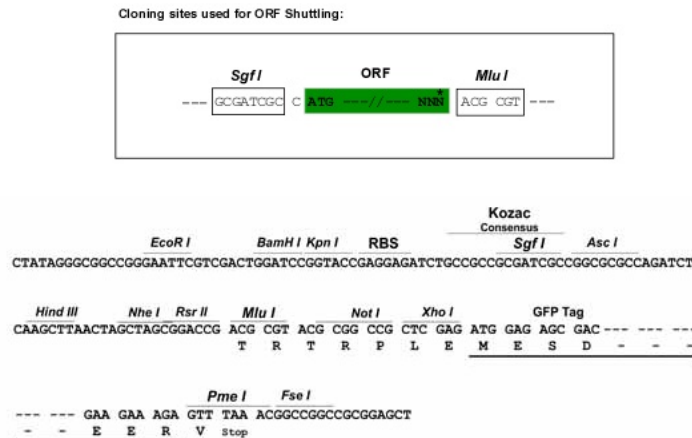
[View online »](#)

**Protein Sequence:** >Peptide sequence encoded by RG236967  
 Blue=ORF Red=Cloning site Green=Tag(s)

MEVAEPSPTEEEEEEHSAEPRPRTRSNEPGAEDRAVGAQASVGSRSEGEAASADDGSLNTSGAG  
 PKSWQVPPPAPEVQIRTPRVNCPKVIICLDLSEEMSLPKLESFNGQKTELPTVENVQTIIPPYVVRT  
 ILVYSRPPCQPQFSLTEPMKKMFQCPYFFDVVYIHNGTEEKEEEMSWKDMFAFMGSLDTKGTSYKYEY  
 ALAGPALELHNCMAKLLAHLPLQRPCQSHASYSLLEEEDEAIEVEATV  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001288757

**ORF Size:** 762 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).

**RefSeq:** [NM\\_001288757.1](#), [NP\\_001275686.1](#)

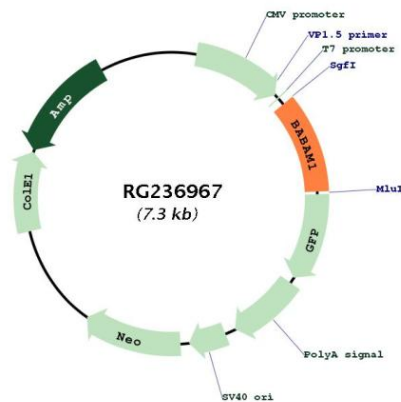
**RefSeq Size:** 1280 bp

**RefSeq ORF:** 765 bp

**Locus ID:** 29086  
**UniProt ID:** [Q9NWW8](#)  
**Cytogenetics:** 19p13.11  
**MW:** 28.6 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 RG236967