

Product datasheet for **RG210626**

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:	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:	>RG210626 representing NM_001033549 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAAGTGGCAGAGCCAGCAGCCCCACTGAAGAGGAGGAGGAGGAAGAGGAGCACTCGGCAGAGCCTC
 GGCCCCGCACTCGCTCCAATCCTGAAGGGGCTGAGGACCGGGCAGTAGGGGCACAGGCCAGCGTGGGCAG
 CCGCAGCGAGGGTGAGGGTGAGGCCGCCAGTGCTGATGATGGGAGCCTCAACACTTCAGGAGCCGGCCCT
 AAGTCCTGGCAGGTGCCCGGCCAGCCCTGAGGTCAAATTCGACACCAAGGGTCAACTGTCCAGAGA
 AAGTGATTATCTGCCTGGACCTGTCAGAGGAAATGTCAGTCCAAAGCTGGAGTCGTTCAACGGCTCCAA
 AACCAACGCCCTCAATGTCTCCAGAAGATGATTGAGATGTTCTGTGCGGACAAAACAAGATCGACAAA
 AGCCACGAGTTTGCACTGGTGGTGGTGAACGATGACACGGCCTGGCTGTCTGGCCTGACCTCCGACCCCC
 GCGAGCTCTGTAGCTGCCTCTATGATCTGGAGACGGCCTCCTGTTCCACCTTCAATCTGGAAGGACTTTT
 CAGCCTCATCCAGCAGAAAAGTGAAGCTTCCGGTCACAGAGAACGTGCAGACGATTCACCCCGCCATATGTG
 GTCCGCACCATCCTTGTCTACAGCCGTCCACCTTGCCAGCCCCAGTTCTCCTTGACGGAGCCCATGAAGA
 AAATGTTCCAGTGCCCATATTTCTTCTTTGACGTTGTTTACATCCACAATGGCACTGAGGAGAAGGAGGA
 GGAGATGAGTTGGAAGGATATGTTTGCCTTCATGGGCAGCCTGGATACCAAGGGTACCAGCTACAAGTAT
 GAGGTGGCACTGGCTGGGCCAGCCCTGGAGTTGCACAACTGCATGGCGAAACTGTTGGCCACCCCTGC
 AGCGGCCTTGCCAGGCCATGCTTCTACAGCCTGCTGGAGGAGGAGGATGAAGCCATTGAGGTTGAGGC
 CACTGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210626 representing NM_001033549
 Red=Cloning site Green=Tags(s)

MEVAEPSSPTEEEEEEHSAEPRPRTRSNPEGAEDRAVGAQASVGSRSEGEAASADDGSLNTSGAGP
 KSWQVPPPAPEVQIRTPRVNCPKVIICLDLSEEMSLPKLESFNGSKTNALNVSQKMIEMFVRTKHKIDK
 SHEFALVVVNDTAWLSGLTSDPRELCSCLYDLETASCSTFNLEGLFSLIQKTELPVTENVQTIPPPYV
 VRTILVYSRPPCQPQFSLTEPMKKMFQCPYFFDVVYIHNGTEEEKEEEMSWKDMFAFMGSLDTKGTSYKY
 EVALAGPALELHNCMAKLLAHLQRPCQSHASYSLLEEDEAIEVEATV

TRTRPLE – GFP Tag – V

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001033549.2](#)

RefSeq Size: 1451 bp

RefSeq ORF: 990 bp

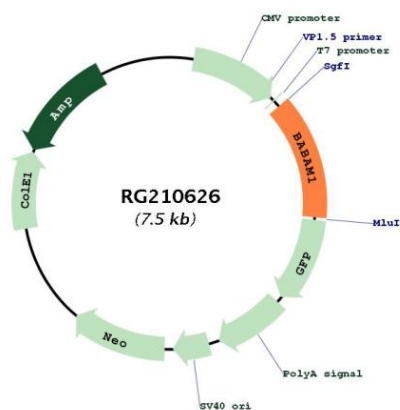
Locus ID: 29086

UniProt ID: [Q9NWX8](#)

Cytogenetics: 19p13.11

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 RG210626