

Product datasheet for **RR201508**

Babam2 (NM_199270) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Babam2 (NM_199270) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Babam2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR201508 representing NM_199270
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTCCAGAAATTGCCTTGAACCGAATTTCTCCAATGCTCTCCCATTATATCGAGCGTGGTCCGAA
ATGGGAAGGTGGACTGGATGCTACCAACTGTTTGAGGATAACGGACTTGAAGTCTGGCTGTACATCCTT
GACTCCTGGACCAACTGTGACCGCTTCAAACGACATCCCGTACGCTGGAGAGACATTAAGTGGGAC
ATAATTTTCAATGCTCAGTACCCAGAGCTGCCTCCTGATTTTCATCTTTGGAGAGGATGCCGAGTTCTGC
CAGACCCCTCTGCTCTGCACAACCTTGCCTCCTGGAACCTTTCGAACCCCGAGTGCCTGCTGTGTT
GAAGGAGCTGGTGCAGCAGTACCACAGTTTCAGTGCAGCGCCCTCCGTGAGAGCTCACGCTCATGTTT
GAGTACCAGACGCTCCTGGAAGAGCCTCAGTATGGAGAGAACATGGAAATTTATGCTGGGAAGAAAAACA
ACTGGACTGGTGAATTTTCTGCTGTTTCTGTTGAAGTTACCAGTAGATTTTCTGCAACATTTCCACGTA
CCTTCTCAAGGATGTAACGAAGATCCCGGAGAAGATGTGGCTCTCCTTTCTGTCAGCTTTGAGGATACT
GAAGCCACCCAGGTGTACCCCAAGTTGTACTTGTACCCCGAATTGAGCATGCCCTCGGGGCTCCTCGG
CTCTCCATATCCCTGCTTTTCCAGGAGGAGGATGTCTCATTGATTATGTGCCTCAAGTGTGCCACCTGCT
CACCAACAAGGTGAGTATGTGATTCAAGGCTATCACAAAAGAAGAGAGTACATCGCTGCTTTCCTCAGT
CACTTTGGCACAGGTGCTGGAATATGATGCAGAAGGCTTACAAAACCTTACACTGCTGCTGATGTGGA
AAGAGTTTGTCTTTCTGTACACATTGACCTGCCTCTGTTTTTCCCTCGAGATCAGCCAACCCCTCACGTT
TCAGTCCGTCTACCACCTTACCAACAGTGGACAGCTTTACTCCCAAGCACAGAAAAATTACCCATACAGC
CCCAGATGGGATGGAAATGAAATGGCCAAGAGAGCAAAGGCTTATTTCAAACCTTTGTCCTCAGTTCC
AGGAGGCTGCATTTGCCAATGGAAAGCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR201508 representing NM_199270
Red=Cloning site Green=Tags(s)

MSPEIALNRISPMLSPFISSVVRNGKVGLDATNCLRITDLKSGCTSLTPGPNCDRFKLHIPPYAGETLKWD
 IIFNAQYPELPPDFIFGEDAEFLPDPALHNLASWNPSNPECLLLVVKELVQQYHQFQCGRRESSRLMF
 EYQTLLEEPQYGENMEIYAGKKNWTGEFSARFLKLPVDFSNIPTYLLKDVNEDPGEDVALLSVSFEDT
 EATQVYPKLYLSPRIEHALGGSSALHIPAFPGGGCLIDVYPQVCHLLTNKVQYVIQGYHKRREYIAAFLS
 HFGTGVVEYDAEGFTKLTLLLMWKEFCFLVHIDLPLFFPRDQPTLTFQSVYHFTNSGQLYSQAQKNYPYS
 PRWDGNEMAKRAKAYFKTFVPQFQEAAFANGKL

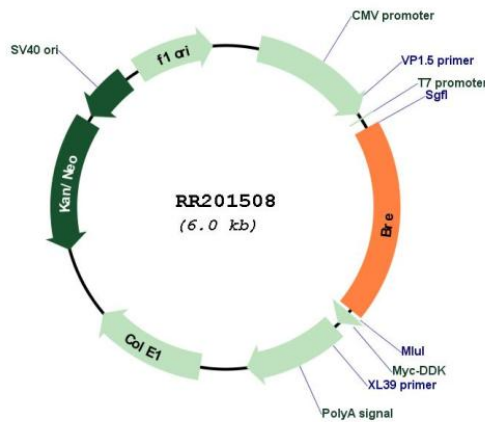
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_199270

ORF Size:	1149 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:	<ol style="list-style-type: none">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_199270.1 , NP_954891.1
RefSeq Size:	1565 bp
RefSeq ORF:	1152 bp
Locus ID:	362704
UniProt ID:	Q6P7Q1
Cytogenetics:	6q14
MW:	43.6 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 acts as an adapter that bridges the interaction between BABAM1/NBA1 and the rest of the complex, thereby being required for the complex integrity and modulating the E3 ubiquitin ligase activity of the BRCA1-BARD1 heterodimer. Component of the BRISC complex, a multiprotein complex that specifically cleaves 'Lys-63'-linked ubiquitin in various substrates. Within the BRISC complex, acts as an adapter that bridges the interaction between BABAM1/NBA1 and the rest of the complex, thereby being required for the complex integrity. The BRISC complex is required for normal mitotic spindle assembly and microtubule attachment to kinetochores via its role in deubiquitinating NUMA1. The BRISC complex 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. Down-regulates the response to bacterial lipopolysaccharide (LPS) via its role in IFNAR1 deubiquitination. May play a role in homeostasis or cellular differentiation in cells of neural, epithelial and germline origins. May also act as a death receptor-associated anti-apoptotic protein, which inhibits the mitochondrial apoptotic pathway. May regulate TNF-alpha signaling through its interactions with TNFRSF1A; however these effects may be indirect.[UniProtKB/Swiss-Prot Function]