

## Product datasheet for **MR220210**

### Babam2 (NM\_144541) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Babam2 (NM_144541) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Babam2
Synonyms:	6030405P19Rik; AI429776; B830038C02Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR220210 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**

ATGTCCTCCAGAAATTGCCTTGAACCGAATTTCTCCAATGCTCTCCCATTCATATCAAGCGTGGTCCGAA  
ATGGGAAGGTGGGACTGGATGCTACAACTGTTTGAGAATTACGGACTTGAAGTCTGGCTGTACATCATT  
GACTCCTGGACCAACTGTGACCGCTTCAAACGACATCCCGTACGCTGGGAGACGTTAAATGGGAC  
ATAATTTTCAATGCTCAGTACCCAGAGCTGCCTCCTGATTTATCTTTGGAGAGGATGCTGAGTTTCTGC  
CAGACCCCTCTGCGCTGCACAACCTTGCTCCCGAACCTTCAAACCTGAGTGCCTGTTGCTCGTGGT  
GAAGGAGCTGGTGCAGCAGTACCACAGTTCCAGTGCAGCGCCCTCCGTGAGAGCTCGCGCTCATGTTT  
GAGTACCAGACGCTCCTGGAAGAGCCTCAGTATGGAGAGAACATGGAAATTTATGCTGGAAGAAAAACA  
ACTGGACTGGTGAATTTTCAGCTCGTTTCTATTGAAGTTACAGTAGATTTTCAGCAACATTTCCACATA  
CCTTCTCAAGGATGTAATGAAGACCTGGAGAAGATGTGGCCCTTCTTCTGTCAGTTTGGAGTACT  
GAAGCTACCCAGGTGTACCCCAAGTTGACTTGTACCCCGAATTGAGCATGCACTCGGAGGCTCCTCTG  
CTCTTCACATCCCTGCTTCCCGGAGGAGGATGTCTCATTGATTATGTGCCTCAAGTGTGCCACCTGCT  
CACCAACAAGGTACAGTATGTGATTCAAGGCTATCACAAAAGAAGAGAGTACATCGCAGCTTTCCTCAGT  
CACTTTGGCACAGGTGCTGGAATATGATGCAGAAGGCTTACAAAACCTACTCTGCTGCTGATGTGGA  
AAGACTTTTGTCTTGTCCACATTGACCTGCCCTGTTTTCCCTCGAGATCAGCCTACGCTCACATT  
TCAGTCAGTCTATCACTTTACCAACAGTGGACAGCTTTACTCCCAAGCACAAAAAACTACCCATACAGC  
CCCAGATGGGATGGAATGAAATGGCCAAGAGAGCAAAGGCTTATTTCAAACCTTTGTCCCTCAGTTCC  
AGGAGGCCGCATTTGCCAATGGAAGCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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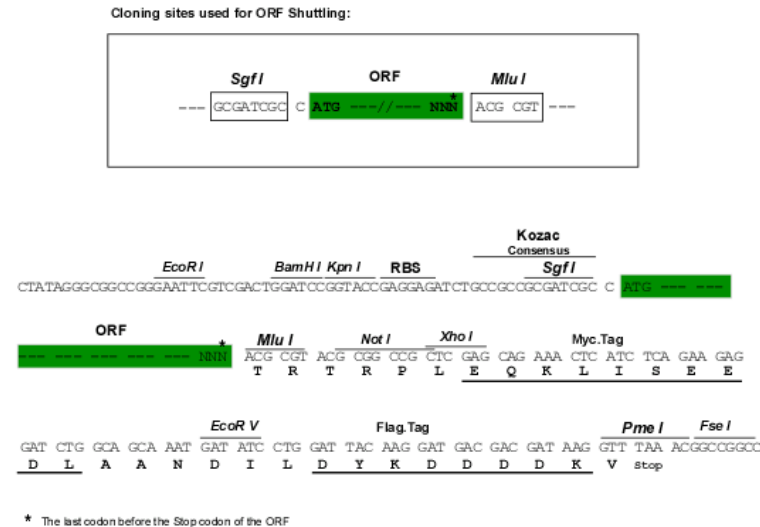
**Protein Sequence:** >MR220210 protein sequence  
 Red=Cloning site Green=Tags(s)

MSPEIALNRISPMLSPFISSVVRNGKVGLDATNCLRITDLKSGCTSLTPGPNCDRFKLHIPYAGETLKWD  
 IIFNAQYPELPDFIFGEDAEFLPDPSSALHNLASRNPSPNECLLLVVKELVQYHQFQCGRLRESSRLMF  
 EYQTLLEEPQYGENMEIYAGKKNNWTGEFSARFLLKLPVDFSNIPTYLLKDVNEDPGEDVALLSVSFEDT  
 EATQVYPKLYLSPRIEHALGGSSALHIPAFPGGGCLIDYVPQVCHLLTNKVQYVIQGYHKRREYIAAFLS  
 HFGTGVEYDAEGFTKLTLMLMWKDFCFLVHIDLPLFFPRDQPTLTFQSVYHFTNSGQLYSQAQKNYPYS  
 PRWDGNEMAKRAKAYFKTFVPQFQEAAFANGKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

**Cloning Scheme:**



**ACCN:** NM\_144541

**ORF Size:** 1152 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\\_144541.1](#), [NP\\_653124.1](#)

**RefSeq Size:** 1299 bp

**RefSeq ORF:** 1152 bp

**Locus ID:** 107976

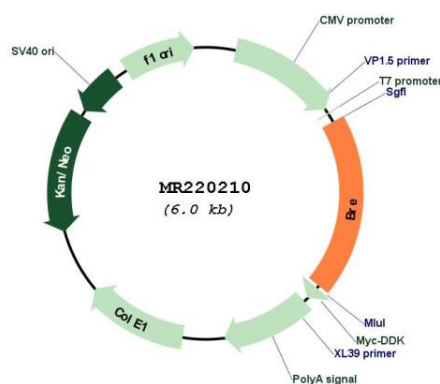
**UniProt ID:** [Q8K3W0](#)

**Cytogenetics:** 5 B1

**MW:** 43.5 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. Probably also plays a role as a component of the BRISC complex, a multiprotein complex that specifically cleaves 'Lys-63'-linked ubiquitin (By similarity). May regulate TNF-alpha signaling through its interactions with TNFRSF1A.[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MR220210