

Product datasheet for MR220498

Babam2 (NM_181279) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Babam2 (NM_181279) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Babam2
Synonyms:	6030405P19Rik; AI429776; B830038C02Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR220498 representing NM_181279 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTCTCCAGAAATTGCCTTGAACCGAATTTCTCCAATGCTCTCCCCATTATCAAGCGTGGTCCGAA
ATGGGAAGATCCATGAAAAGGGCCGTCACAGAAGCTTTTCATTCAAGTCTGCTTTATCATCTGCCGAT
GTGTGCCTGTAATGAATGGTATGGTGTGCCAGATCTAGAGAAAGCATCGTACCTTTGGAGAAAGAAAGAA
AACCATCTGCCACTAGAAAAGGCCAAAACGTACATCATTGACTCCTGGACCAACTGTGACCGCTTCA
AACTGCACATCCCGTACGCTGGGAGACGTTAAAATGGGACATAATTTTCAATGCTCAGTACCCAGAGCT
GCCTCCTGATTTTCATCTTTGGAGAGGATGCTGAGTTTCTGCCAGACCCCTCTGCGCTGCACAACCTTGCC
TCCTGGAACCCCTCAAACCCTGAGTGCCTGTTGCTCGTGGTGAAGGAGCTGGTGCAGCAGTACCACCAGT
TCCAGTGCGGCCGCTCCGTGAGAGCTCGCGCCTCATGTTGAGTACCAGACGCTCCTGGAAGAGCCTCA
GTATGGAGAGAACATGGAATTTATGCTGGAAAGAAAACAACCTGGACTGGTGAATTTTCAGCTCGTTTT
CTATTGAAGTTACCAGTAGATTTTCAGCAACATTTCCACATACCTTCTCAAGGATGTAATGAAGACCCTG
GAGAAGATGTGGCCCTTCTTTCTGTGAGTTTGGAGACTGAAGCTACCCAGGTGACCCCAAGTTGTA
CTTGTCACCCCGAATTGAGCATGCACTCGGAGGCTCCTCTGCTTTCACATCCCTGCTTTCCCGGAGGA
GGATGTCTCATTGATTATGTGCCTCAAGTGTGCCACCTGCTCACCAACAAGGTACAGTATGTGATTCAAG
GCTATCACAAAAGAAGAGAGTACATCGCAGCTTTCCTCAGTCACTTTGGCACAGGTGTCGTGGAATATGA
TGCAGAAGGCTTCAAAAACCTTACTCTGCTGCTGATGTGGAAAGACTTTTGTCTTCTGTCCACATTGAC
CTGCCCTGTTTTTCCCTCGAGATCAGCCTACGCTCACATTTTCAGTCACTATCACTTTACCAACAGTG
GACAGCTTACTCCCAAGCACAAAAAACTACCCATACAGCCCCAGATGGGATGGAAATGAAATGGCCAA
GAGAGCAAAGGCTATTTCAAACCTTTGTCCCTCAGTTCAGGAGGCCGATTTGCCAATGAAAGCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR220498 representing NM_181279
Red=Cloning site Green=Tags(s)

MSPEIALNRISPMLSPFISSVVRNGKIHEKGPSQKLSFKSCSYHLMPCACNEWYGVDPLEKASYLWRKKE
 NHLPLEKGQNCTSLTPGNCDRFLHIPYAGETLKWDIIFNAQYPELPPDFIFGEDAEFLPDPSSALHNLA
 SWNPSNPECLLLVVKELVQYHQFQCGRLRESSRLMFEYQTLLEEPQYGENMEIYAGKKNWTGEFSARF
 LLKLPVDFSNIPTYLLKDVNEDPGEDVALLSVSFEDTEATQVYPKLYLSPRIEHALGGSSALHIPAFPGG
 GCLIDYVPQVCHLLTNKVQYVIQGYHKREYIAAFLSHFGTGVVEYDAEGFTKLTLLLMWKDFCFLVHID
 LPLFFPRDQPTLTFQSVYHFTNSGQLYSQAQKNYPYSPRWDGNEMAKRAKAYFKTFVPQFQEAAFANGKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

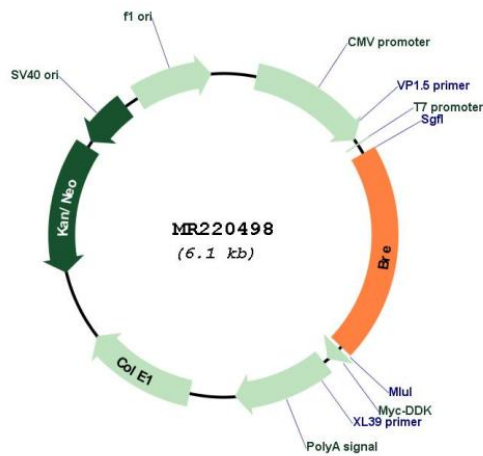
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_181279

ORF Size:	1260 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_181279.1 , NP_851796.1
RefSeq Size:	1410 bp
RefSeq ORF:	1263 bp
Locus ID:	107976
UniProt ID:	Q8K3W0
Cytogenetics:	5 B1
MW:	48.5 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]