

## Product datasheet for **MG220508**

### Babam2 (NM\_181281) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Babam2 (NM_181281) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Babam2
Synonyms:	6030405P19Rik; AI429776; B830038C02Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG220508 representing NM_181281 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTGTGCCTGTAGGGACATAATTTTCAATGCTCAGTACCCAGAGCTGCCTCCTGATTTTCATCTTTGGAG  
AGGATGCTGAGTTTCTGCCAGACCCCTCTGCGCTGCACAACCTTGCTCCTGGAACCTTCAAACCTGA  
GTGCCTGTTGCTCGTGGTGAAGGAGCTGGTGCAGCAGTACCACCAGTTCCAGTGCGGCCGCTCCGTGAG  
AGCTCGGCCTCATGTTTGAGTACCAGACGCTCCTGGAAGAGCCTCAGTATGGAGAGAACATGGAAATTT  
ATGCTGGAAGAAAAACAACCTGGACTGGTGAATTTTCAGCTCGTTTTCTATTGAAGTTACCAGTAGATTT  
CAGCAACATCCACATACCTTCTCAAGGATGTAATGAAGACCCCTGGAGAAGATGTGGCCCTTCTTTCT  
GTCAGTTTTGAGGATACTGAAGTACCCAGGTGTACCCCAAGTTGTACTTGTACCCCGAATTGAGCATG  
CACTCGGAGGCTCCTCTGCTCTTACATCCCTGCTTCCCGGAGGAGGATGCTCATTGATTATGTGCC  
TCAAGTGTGCCACCTGCTCACCACAAGGTACAGTATGTGATTCAAGGCTATCACAAAAGAAGAGAGTAC  
ATCGCAGCTTTCCTCAGTCACTTTGGCACAGGTGTCGTGGAATATGATGCAGAAGGCTTCACAAACTTA  
CTCTGCTGCTGATGTGGAAGACTTTTGTCTTGTCCACATTGACCTGCCCTGTTTTCCCTCGAGA  
TCAGCCTACGCTCACATTTTCAGTCACTATCACTTTACCAACAGTGGACAGCTTACTCCCAAGCACAA  
AAAAACTACCCATACAGCCCCAGATGGGATGGAATGAAATGGCCAAGAGAGCAAAGGCTTATTTCAAAA  
CCTTTGTCCTCAGTTCAGGAGGCCGATTTGCCAATGGAAGCTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG220508 representing NM\_181281  
 Red=Cloning site Green=Tags(s)

MCACRDIIFNAQYPELPPDFIFGEDAEFLPDPSSALHNLASWNPSNPECLLLVVKELVQQYHQFCGRLRE  
 SSRLMFEYQTLLEEPQYGENMEIYAGKKNWTFGEFSARFLKLPVDFSNIPTYLLKDVNEDPGEDVALLS  
 VSFEDTEATQVYPKLYLSPRIEHALGGSSALHIPAFPGGGCLIDYVPQVCHLLTNKVQYVIQGYHKRREY  
 IAAFLSHFGTGVVEYDAEGFTKL TLLL MWKDFCFLVHIDLPLFFPRDQPTLTFQSVYHFTNSGQLYSQAQ  
 KNYPYSPRWGDNEMAKRAKAYFKTFVPQFQEAFAFANGKL

TRTRPLE - GFP Tag - V

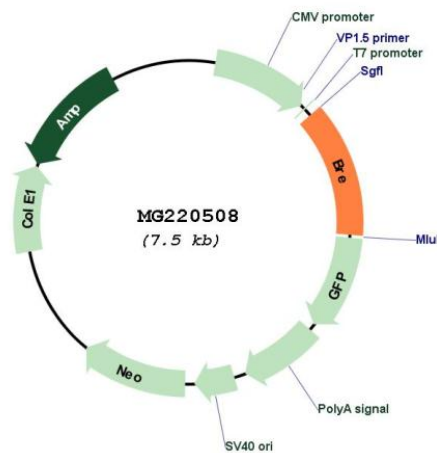
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_181281

**ORF Size:** 957 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_181281.1</a> , <a href="#">NP_851798.1</a>
<b>RefSeq Size:</b>	1143 bp
<b>RefSeq ORF:</b>	960 bp
<b>Locus ID:</b>	107976
<b>UniProt ID:</b>	<a href="#">Q8K3W0</a>
<b>Cytogenetics:</b>	5 B1
<b>Gene Summary:</b>	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]