

## Product datasheet for **RG201272**

### **BAG1 (NM\_004323) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** BAG1 (NM\_004323) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** BAG1  
**Synonyms:** BAG-1; HAP; RAP46  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG201272 representing NM\_004323  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

CTGGCTCAGCGCGGGGGCGCGGAGACCGCGAGGCGACCGGGAGCGGCTGGGTTCCCGGCTGCGCGCCC  
 TTCGGCCAGGCCGGGAGCCGCGCCAGTCGGAGCCCCGGCCAGCGTGGTCCGCCTCCCTCTCGGCGTCC  
 ACCTGCCCGGAGTACTGCCAGCGGGCATGACCGACCCACCAGGGCGCCGCCCGGGCGCTCGCAGGCCC  
 CGGATGAAGAAGAAAACCGGCGCGCTCGACCCGGAGCGAGGAGTTGACCCGGAGCGAGGAGTTGACCC  
 TGAGTGAGGAAGCGACCTGGAGTGAAGAGCGACCCAGAGTGAGGAGGCGACCCAGGGCGAAGAGATGAA  
 TCGGAGCCAGGAGGTGACCCGGGACGAGGAGTCGACCCGGAGCGAGGAGGTGACCCAGGGAGAAAATGGCG  
 GCAGCTGGGCTCACCGTACTGTACCCACAGCAATGAGAAGCACGACCTTCATGTTACCTCCCAGCAGG  
 GCAGCAGTGAACCAAGTGTCCAAGACCTGGCCAGGTTGTTGAAGAGGTCATAGGGGTTCCACAGCTTTT  
 TCAGAACTCATATTTAAGGGAAAATCTCTGAAGGAAATGGAAACACCGTTGTCAGCACTTGAATACAA  
 GATGGTTGCCGGGTATGTTAATTGGGAAAAAGAACAGTCCACAGGAAGAGGTTGAACTAAAGAAGTTGA  
 AACATTTGGAGAAGTCTGTGGAGAAGATAGCTGACCAGCTGGAAGAGTTGAATAAAGAGCTTACTGGAAT  
 CCAGCAGGTTTTCTGCCAAGGATTTGCAAGCTGAAGCTCTCTGCAAACTTGATAGGAGAGTAAAAGCC  
 ACAATAGAGCAGTTTATGAAGATCTTGGAGGAGATTGACACACTGATCCTGCCAGAAAATTTCAAAGACA  
 GTAGATTGAAAAGGAAAGGCTTGGTAAAAAAGGTTCAAGGATTCCCTAGCCGAGTGTGACACAGTGGAGCA  
 GAACATCTGCCAGGAGACTGAGCGGCTGCACTACAACTTTGCCCTGGCCGAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG201272 representing NM\_004323  
 Red=Cloning site Green=Tags(s)

LAQRGGARRPRGDRERLGSRLRALRPGREPRQSEPPAQRGPPPSRRPPARSTASGHDRPTRGAAAGARRP  
 RMKKKTRRRSTRSEEL TRSEEL TLSEEATWSEEATQSEEATQGEEMNRSQEVTRDEESTRSEEVTREEMA  
 AAGLTVTVTHSNEKHDLHVTSQQGSSEPVVQDLAQVVEEVIQVPSFQKLIKFKGKSLKEMETPLSALGIQ  
 DGCRVMLIGKKNSPQEEVELKKLKHLEKSVEKIDQLEELNKELTGIQQGFLPKDLQAEALCKLDRRVKA  
 TIEQFMKILEEIDTLILPENFKDSRLKRRKGLVKKVQAF LAECDTVEQNICQETERLQSTNFALAE

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_004323

**ORF Size:** 1035 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\\_004323.5](#)

**RefSeq Size:** 3885 bp

**RefSeq ORF:** 1038 bp

**Locus ID:** 573

**UniProt ID:** [Q99933](#)

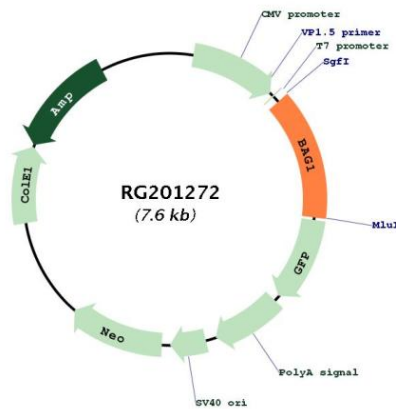
**Cytogenetics:** 9p13.3

**Domains:** UBQ, BAG

**Protein Families:** Druggable Genome

**Gene Summary:** The oncogene BCL2 is a membrane protein that blocks a step in a pathway leading to apoptosis or programmed cell death. The protein encoded by this gene binds to BCL2 and is referred to as BCL2-associated athanogene. It enhances the anti-apoptotic effects of BCL2 and represents a link between growth factor receptors and anti-apoptotic mechanisms. Multiple protein isoforms are encoded by this mRNA through the use of a non-AUG (CUG) initiation codon, and three alternative downstream AUG initiation codons. A related pseudogene has been defined on chromosome X. [provided by RefSeq, Feb 2010]

### Product images:



Circular map for RG201272