

## Product datasheet for **RR203877**

### Bag1 (NM\_001106647) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Bag1 (NM_001106647) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Bag1
Synonyms:	Bag-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR203877 representing NM_001106647 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

CTGGCGGATCGCGCGCGCGCGCGGACCGCGAGGCGACCAGGAGCCGCTGGGACCCCGGCTGCGCGCC  
CTCGGTCGGCCCGGAGACGCGCCAGTCGGAGTCCCGGGCCGAGCGTGGCTTGCCCTCTCAGCGTTC  
ATCTGTCCGAGTGCAGCCAGCGGGCATGACCGATCCACCAGGGCGCCGCTCCGGCGCTTGAAGCCG  
CGGTTGAAGAAGAAAGTCCGGCCCGCTTCTCAGAGCGAGAAGGTAGCTCACAGCAAGGAGTTGACTA  
GAAGTAAGAAGTTGACCCGAGCAAGAAAGTGACCGGGACCCAGGAGGCGACCCAAGTAGAGGAGGTGAC  
CAGGATCGAGGAGGCGACCCAGACCGAGGAGATTACGGTAGCGGAAGAGGTGACCCAGACCGAGAACATG  
GCCAGACCGAGGAGATGGTCCAGACGGAGGAAATGGAACCAACCCACACTCAGCGTGGTCTGACCCACA  
GCAATGAGAGGTATGACCTTCTTGTACCCACAGCAAGGTAACAGTGAGCCAATTGTCCAAGACCTGGC  
TCAGCTTGTGAAGAGGCCACAGGAGTCCACTACCTTTTCAGAAAGTCAATTTAAGGGCAAACTCTG  
AAAGAAATGGAACACCCCTTGTGACACTTGAATGCAAAATGGTTGCCGAGTCATGTTAATTGGTGAAA  
AGAGCAATCCAGAAGAAGAGGCTGAGTTGAAAAAGCTGAAGGACTTGGAGGTATCTGTGGAGAAGACAGC  
TAACCACCTGGAAGAGTTGAATAAAGAGCTTTCTGACATCCAGCAGGGTTTTCTGGCTAAGGAATTACAA  
GCGGAGGCTCTCTGACACTTGATAGGAAAATAAAGGCCACAATTGAGCAATTCATGAAGATCTTGGAGG  
AGATTGACACAATGGTCTTACCAGAAAACCTTTAAAGACAGCAGGCTAAAAAGGAAGAATTTGGTGAAAA  
GGTTCAGGTGTTCTAGCAGAGTGTGATACAGTGGAGCAGTACATCTGCCAAGAGACAGAGCGGCTGCAG  
TCTACAAACTTGGCCCTGCCTGAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR203877 representing NM\_001106647  
 Red=Cloning site Green=Tags(s)

LADRGGARPRGQDEPLGPRLRAPRSARETRQSESRAERGLPPSQRSSVRSAAASGHRSTRGAASGACKP  
 RVKKKVRPRSSQSEKVAHSEL TRSKKL TRSKKVTGTQEATQVEEVTTIEEATQTEEITVAEEVTQTEM  
 AQTEEMVQTEEMEPPTLSVVVTHSNERYDLLVTPQQGNSEPIVQDLAQLVEEATGVPLPFQKLIKFKKSL  
 KEMETPLSALGMQNGCRVMLIGEKSNPEEEEAEKLDLEVSVEKTANHLEELNKELSDIQQFLAKELQ  
 AEALCRLDRKIKATIEQFMKILEEIDTMVLPENFKDSRLKRKKNLVKKVQVFLAECDTVEQYICQETERLQ  
 STNLALPE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001106647

**ORF Size:** 1074 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\\_001106647.3](#), [NP\\_001100117.2](#)

**RefSeq Size:** 1308 bp

**RefSeq ORF:** 1077 bp

**Locus ID:** 297994

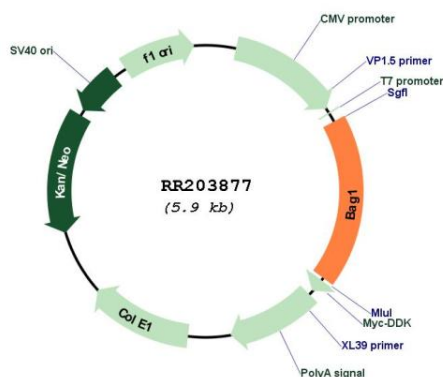
**UniProt ID:** [B0K019](#)

**Cytogenetics:** 5q22

**MW:** 40.1 kDa

**Gene Summary:** The oncogene Bcl2 encodes a membrane protein that blocks a step in a pathway leading to apoptosis or programmed cell death. Studies in human and mouse suggest that the protein encoded by this gene (referred to as Bcl2-associated athanogene) binds to Bcl2 protein. It enhances the anti-apoptotic effects of Bcl2 and represents a link between growth factor receptors and anti-apoptotic mechanisms. At least two protein isoforms are encoded by this mRNA through the use of a non-AUG (CUG) start site and an alternative, downstream, AUG translation initiation site. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RR203877