

## Product datasheet for **MG203066**

### **Bcap31 (NM\_012060) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Bcap31 (NM\_012060) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Bcap31  
**Synonyms:** Bap31  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG203066 representing NM\_012060  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTTTGCAGTGGACTACAGTTGCCACCTTCCTCTACGCAGAGGTCTTTGCTGTGTTGCTTCTCTGCA  
TTCCCTTCATTTCTCCAAAAGATGGCAGAAGGTTTTTAAATCCCGCTGGTGGAGTTGGTAGTGACCTA  
TGGCAACACTTTCTTTGTGGTTCTCATCGTCATCCTTGACTGTTGGTTATTGATGCTGTACGAGAGATC  
CTGAAATACGATGATGTACAGAAAAGGTGAACCTCCAGAACAATCCAGGTGCCATGAGCACTTCCACA  
TGAAGCTTTTCCGTGCTCAGAGGAATCTCTATATTGCTGGCTTTTCTTGCTGCTGTCCTTCTGCTTAG  
ACGCCTGGTACTCTCATCTCCCAGCAGGCCACTGCTGGCCTCCAATGAAGCCTTAAAAAGCAGGCA  
GAAAGTGCCAGTGAAGCGCCAAGAAATACATGGAGGAGAATGATCAGCTAAAGAAGGGAGCTGCCGAGG  
ATGGAGACAAGTTGGATATTGGGAATACTGAAATGAAGTTAGAGGAGAACAAGAGCCTGAAGAATGACCT  
GAGGAAGCTAAAAGATGAGCTGGCCAGCACCAAGAAAAAATTGAGAAAGCTGAAAACGAGGCTCTGGCT  
ATGCAGAAGCAGTCTGAGGGCCTTACCAAAGAATATGACCCGCTGCTAGAAGAACATGCCAACTGCAGG  
CATCAGTACGTGGTCCCTCAGTCAAGAAGGAGGAG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >MG203066 representing NM\_012060  
 Red=Cloning site Green=Tags(s)

MSLQWTTVATFLYAEVFAVLLLCIPFISPKRWQKVFKSRLVELVVTYGNFFVVLIVILVLLVIDAVREI  
 LKYDDVTEKVNQNNPGAMEHFHMKLFRAQRNLYIAGFSLLL SFLLRRLVTLISQQATLLASNEAFKKQA  
 ESASEAAKKYMEENDQLKKGAAEDGDKLDIGNTEMKLEENKSLKNDLRKLKDELASTKKKLEKAENEALA  
 MQKQSEGLTKEYDRLLLEEHAQLQASVRGPSVKKEE

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_012060

**ORF Size:** 1211 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\\_012060.2](#)

**RefSeq Size:** 1216 bp

**RefSeq ORF:** 738 bp

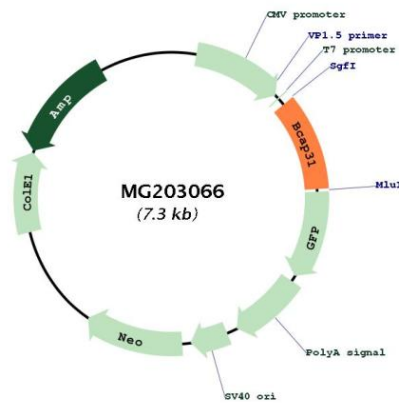
**Locus ID:** 27061

**UniProt ID:** [Q61335](#)

**Cytogenetics:** X A7.3

**Gene Summary:** Functions as a chaperone protein. Is one of the most abundant endoplasmic reticulum (ER) proteins. Plays a role in the export of secreted proteins in the ER, the recognition of abnormally folded protein and their targeting to the ER associated-degradation (ERAD). Also serves as a cargo receptor for the export of transmembrane proteins. May be involved in CASP8-mediated apoptosis.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG203066