

## Product datasheet for **MR200850**

### **Bola1 (NM\_026975) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Bola1 (NM\_026975) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Bola1  
**Synonyms:** 1810037G04Rik  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR200850 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCTAAGTGCAGATCGGCCAGTGCATGGTCTCCATGGCCACGCGCTCGTGTGTATCGCGGGCAGCG  
 CGGGATCTGCGGCTGCAGGACCAGTGAAGCCGCTATTCGCGCCAAATTGGAGCAAGCCCTGAGCCCCGA  
 GGTACTGGAGCTGCGCAACGAGAGCGGTGGCCACGCAGTCCCAGCAGGCAGCGAGACGCATTTTCGCGTG  
 GCGGTGGTGGCTCTCGTTTCGAGGGGATGAGCCCTTGAACGGCACCGTTGGTCCACGAGGCACTGT  
 CGGAGGAGCTGGCTGGACCGGTACATGCCCTGGCCATCCAGGCGAAGACCCCGCCAGTGGAGAGAAAA  
 CCCACAGTTGGACATTAGTCCCCCTGCCTAGGTGGGAGCAAGAAAACCTCGAGGGACCTCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR200850 protein sequence  
 Red=Cloning site Green=Tags(s)

MLSARSAQCMVSMATRSCVSRGSAGSAAAGPVEAAIRAKLEQAL SPEVLELRNESGGHAVPAGSETHFRV  
 AVYSSRFEGMSPLQRHRLVHEALSEELAGPVHALAIQAKTPAQWRENPLDISPPCLGGSKKTRGTS

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_026975

**ORF Size:** 414 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\\_026975.2](#)

**RefSeq Size:** 729 bp

**RefSeq ORF:** 414 bp

**Locus ID:** 69168

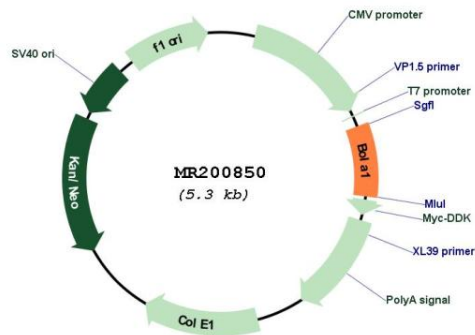
UniProt ID: [Q9D8S9](#)

Cytogenetics: 3 F2.1

MW: 14.4 kDa

Gene Summary: Acts as a mitochondrial iron-sulfur (Fe-S) cluster assembly factor that facilitates (Fe-S) cluster insertion into a subset of mitochondrial proteins (By similarity). Probably acts together with the monothiol glutaredoxin GLRX5. May protect cells against oxidative stress (By similarity). [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR200850