

## Product datasheet for **MG226023**

### **Btla (NM\_001037719) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Btla (NM\_001037719) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Btla  
**Synonyms:** A630002H24  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG226023 representing NM\_001037719  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAAGACAGTGCCTGCCATGCTTGGGACTCCTCGGTTATTTAGGAATTCCTCATCTCCATCTGGGCC  
 TCTGGAGCATCCTTTGTGAGAAAGCTACTAAGAGGAATGATGAAGAGTGTCCAGTGCACTTACTATTAC  
 GAGGAATCCAAACAGTCTGCCAGGACAGGAGATTATTTAAAATCAATGTCCTGTGAAATACTGTGTT  
 CATAGACCTAATGTGACTTGGTGAAGCACAATGGAACAATCTGTGTACCCCTTGAGGTTAGCCCTCAGC  
 TATACACTAGTTGGGAAGAAAATCAATCAGTTCGGTTTTTGTCTCCACTTTAAACCAATACATCTCAG  
 TGATAATGGGTGCTATAGCTGTTCTACAACTTCAATTCTCAAGTTATTAATAGCCATTCAGTAACCATC  
 CATGTGACAGAAAAGGACTCAAACTCTTCAGAACCCCACTAATAACAGTATCTGACATCCAGATGCCA  
 CCAATGCCTCAGGACCATCCACCATGGAAGAGAGGCCAGGCAGGACTTGGCTGCTTTACACCTTGCTTCC  
 TTTGGGGCATTGCTTCTGCTCCTTGCCTGTGTCTGCCTGCTCTGCTTTCTGAAAAGGATCCAAGGGAAA  
 GAAAAGAAGCCTTCTGACTTGGCAGGAAGGGACACTAACCTGGTTGATATCCAGCCAGTTCAGGACAA  
 ATCACCAGCACTGCCATCAGGAAGTGAATTTATGATAATGATCCCTGGTCTAGCATGCAGGATGAATC  
 TGAATTGACAATTAGCTTGCAATCAGAGAGAAAACAACCCAGGCATTGTTTATGCTTCTTTGAACCATGT  
 GTTATTGGAAGGAATCCAAGACAGGAAAACAACATGCAGGAGGCCACCCACAGAATATGCATCCATTTGTG  
 TGAGAAGT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

**Protein Sequence:** >MG226023 representing NM\_001037719  
 Red=Cloning site Green=Tags(s)

MKTVPAMLGTPRLFREFFILHLGLWSILCEKATKRNDDEECPVQLTITRNSKQSARTGELFKIQCPVKYCV  
 HRPNVTWCKHNGTICVPLEVSPQLYTSWEENQSVPVFLHFKPIHLSDNGSYSCSTNFNSQVINSHSVTI  
 HVTERTQNSSEHPLITVSDIPDATNASGPSTMEERPGRTWLLYTLPLGALLLLACVCLLCFLKRIQ GK  
 EKKPSDLAGRDTNLVDIPASSRTNHQALPSGTGIYDNDPWSSMQDESELTISLQSERNNQIVYASLNHC  
 VIGRNRPRQENNMQEAPTEYASICVRS

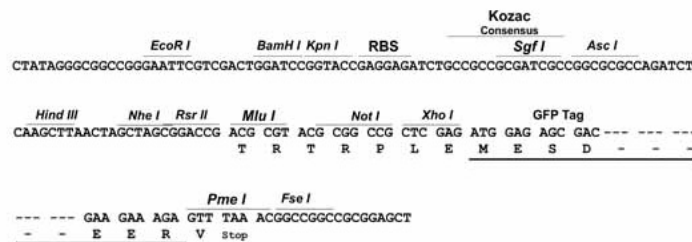
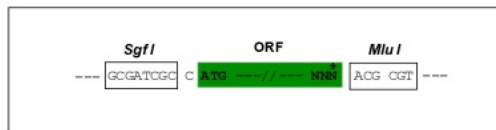
TRTRPLE - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1708\\_h11.zip](https://cdn.origene.com/chromatograms/ja1708_h11.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_001037719

**ORF Size:** 918 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\\_001037719.2](#), [NP\\_001032808.2](#)

**RefSeq Size:** 3235 bp

**RefSeq ORF:** 921 bp

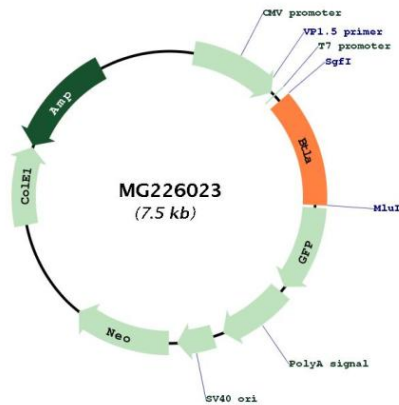
**Locus ID:** 208154

**UniProt ID:** [Q7TSA3](#)

**Cytogenetics:** 16 B5

**Gene Summary:** Inhibitory receptor on lymphocytes that negatively regulates antigen receptor signaling via PTPN6/SHP-1 and PTPN11/SHP-2 (PubMed:12796776, PubMed:14652006). May interact in cis (on the same cell) or in trans (on other cells) with TNFRSF14 (PubMed:19915044). In cis interactions, appears to play an immune regulatory role inhibiting in trans interactions in naive T cells to maintain a resting state. In trans interactions, can predominate during adaptive immune response to provide survival signals to effector T cells (PubMed:19915044). [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG226023