

Product datasheet for **MG226024**

Btla (NM_177584) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Btla (NM_177584) 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:	>MG226024 representing NM_177584 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGACAGTGCCTGCCATGCTTGGGACTCCTCGTTATTTAGGGAATCTTCATCCTCCATCTGGGCC
TCTGGAGCATCCTTTGTGAGAAAGCTACTAAGAGGAATGATGAAGAGTGCCAGTGCACTTACTATTAC
GAGGAATCCAAACAGTCTGCCAGGACAGGAGATTATTTAAAATCAATGTCCTGTGAAATACTGTGTT
CATAGACCTAATGTGACTTGGTGAAGCACAATGGAACAATCTGTGTACCCCTTGAGGTTAGCCCTCAGC
TATACACTAGTTGGGAAGAAAATCAATCAGTTCGGTTTTTGTCTCCACTTTAAACCAATACATCTCAG
TGATAATGGGTGCTATAGCTGTTCTACAACTTCAATTCTCAAGTTATTAATAGCCATTCAGTAACCATC
CATGTGACAGAAAAGGACTCAAACTCTTCAGAACCCCAATAATATCTGACATCCCAGATGCCACCA
ATGCCTCAGGACCATCCACCATGGAAGAGAGGCCAGGCAGGACTTGGCTGCTTTACACCTTGCTTCTTT
GGGGCATTGCTTCTGCTCCTTGCTGTGTCTGCTGCTGCTTCTGAAAAGGATCCAAGGAAAGAA
AAGAAGCCTTCTGACTTGGCAGGAAGGGACACTAACCTGGTTGATATCCAGCCAGTTCAGGACAAATC
ACCAAGCACTGCCATCAGGAATTTATGATAATGATCCCTGGTCTAGCATGCAGGATGAATCTGA
ATTGACAATTAGCTTGAATCAGAGAGAAAACAACAGGGCATTGTTTATGCTTCTTTGAACATTGTGTT
ATTGGAAGGAATCCAAGACAGGAAAACAACATGCAGGAGGCCACCCACAGAATATGCATCCATTTGTGTA
GAAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG226024 representing NM_177584
Red=Cloning site Green=Tags(s)

MKTVPAMLGTPRLFREFFILHLGLWSILCEKATKRNDDEECPVQLTITRNSKQSARTGELFKIQCPVKYCV
 HRPNVTWCKHNGTICVPLEVSPQLYTSWEENQSVPVFLHFKPIHLSDNGSYSSTNFNSQVINSHSVTI
 HVTERTQNSSEHPLIISDIPDATNASGPSTMEERPGRTWLLYTLPLGALLLLACVCLLCFLKRIQGKE
 KKPSDLAGRDTNLVDIPASSRTHQALPSGTGIYDNDPWSSMQDESELTISLQSERNNQGIYVYASLNHCV
 IGRNPRQENNMQEAPTEYASICVRS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_177584

ORF Size: 915 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_177584.3](#), [NP_808252.1](#)

RefSeq Size: 3232 bp

RefSeq ORF: 918 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 MG226024