

Product datasheet for **MR221446**

Btn2a2 (NM_175938) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Btn2a2 (NM_175938) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Btn2a2
Synonyms:	Btn2; D030063K05
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR221446 representing NM_175938
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGCCTACAACCTCCCTGCGTTCTTGCCCGATAGCCTCCCTTCTTCTTCTTGGTCCCTCAGCCTGT
 TTGTGCTGGTCTCAGCCAGTTTACTGTATAGGACCAGCTGAGCCCATCCTGGCCATGGTAGGAGAGAA
 TACCACACTACACTGCCACCTGTACCAGAGAGAAATGCCGAAGAGATGGAGGTGCGGTGGTTCCGGTGG
 CGTTTCTCCCTGCAGTCTGGTGTACAGAGGCCATCAAGAGAGACCAGAGGAGCAGATGGTGGCATAACC
 GAGGAAGAACCACCTTATGCGCACAGACATCAGCAAGGGAAGAGTTGCGCTCATTATCCACAATGTCAC
 AGCCTATGACAATGGCATCTACTGCTGTTACTTCCAGGAAGGCAGGTCTATGACCAGGCAACCATGAAG
 CTTATGGTGGCAAGCCTTGGCTCTGAGCCACTTATTAATGAAGACACTTGAGGATGGGAGCATCTTGC
 TAGAGTGCACATCTGAAGGTGGTACCCAGAGCCCGAGCTGTGTGGAGAGACCCTATGATGAAGTTGT
 ACCTGCCCTGGAGGAGGATATACAGCTGACAGAGAAGGCCTTTCACAGTCACCATGACTATAATCATC
 AGGGACTGCTCTGTGAGGAACATGACCTGCTCTGTCAATAACACTCTGCTCAGCCAGGAGGTGAAAGTG
 TGATTCTCATTCCAGAATCCTTCGTGCCAGCCTTCTCTGTGGATGGTGGCTGTGGCTGTCACTCTGCC
 TGTAGTAATGCTGATTCTCCTACATCTGGAAGCATCTGCCTTGTCAAGAAACACCGCAGGAAGAAATCT
 ATTCTGTCAGTGAAAAAGAAGCCGAATATGAAGAGAAGGAAGCTGCACGGCAACTTCAAGAGGAAGTGC
 GATGGAGACGAACCCTTACATGCTGCTGACGTGGTCTTGACCCAGATACAGCTCATCCTGAGCTCTT
 CCTGTGATGACCAGAGAAGTGAATACGAGGCTTTCGAGGCAGAGTGTGCCTGACAACCTGAGAGA
 TTTGACTGCCGTCCATGTGCTTGGCAGGGAAGCTTCTCCTCAGGGAAGCATTACTGGGAGGTGGAGG
 TGGAAAATGTAATGGTGTGGCCATTGGTGTGTTGTAGAGACAGCGTGGAAAGGAAAGGGGAGCCCTGTT
 GGTTCTCAGAATGGCTTCTGGACCCTGGAGATGTTTGAAGCCAGTATCGAGCCCTGCTCCTCCAGAA
 AAGATCATACCTCTGAAAGAGCGTCTTACCCTATAGCTGTCTTCTGGACTGTGAGGTTGGAGATATTT
 CTTTCTACAACATGAGAGACAGATCACACATTTACACATGTCCTCCTGTGACTTTCACTGGGCCCTGAG
 ACCCTTCTTAGGCTTGGTTCTGATGACAGTCCCTGTTTCTGTCAGCATTACAGGGGCACAGGGA
 GTTACAATACCTGAGGTTGGCTTATTCCTATATAAGACAAGACCAATTTCTCAGAGCCTTGAAGGAAGC
 CA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR221446 representing NM_175938
 Red=Cloning site Green=Tags(s)

MEPTTSLRSCPIASLLFFLVLSLFLVLSAQFTVIGPAEPIILAMVGENTTLHCHLSPERNAEEMEVRWFRW
 RFFPAVLVYRGHQERPEEQMVAYRGRITFMRTDISKGRVALIIHNVTAYDNGIYCCYFQEGRSYDQATMK
 LMVASLGSEPLIKMKTLEDGSILLECTSEGWYEPRAVWRDPYDEVVPALEEEYTADREGLFTVTMTIII
 RDCSVRNMTCVNNLLSQEVESVILIPESFVPSLPLWMVAVAVTLPVVMLILLTSGSICLVKHKRRKKS
 ILSAEKEAEYEEKEAARQLQEELRWRRTLLHAADVLDPDTAHPELFLSDDQRSVIRGSSRQSVDPNPER
 FDCRPCVLGRESFSSGKHWEVEVENVMVAIGVCRDSVERKGEALLVPQNGFWTLEMFQSQRALSSPE
 KIIPLKERLHRIAVFLDCEGGDISFYNMRDRSHIYTCPVFTFTGPLRPFRLGSDDSPFLICPAFTGAQG
 VTIPGGFLFLYKTRPISQSLVRKP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9016_b01.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

ACCN: NM_175938

ORF Size: 1542 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).

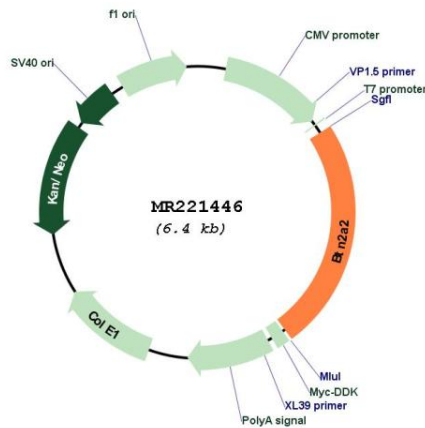
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_175938.3](#), [NP_787952.2](#)

RefSeq Size: 2983 bp
 RefSeq ORF: 1545 bp
 Locus ID: 238555
 UniProt ID: [A4QPC6](#)
 Cytogenetics: 13 A3.1
 MW: 58.9 kDa

Gene Summary: Inhibits the proliferation of CD4 and CD8 T-cells activated by anti-CD3 antibodies, T-cell metabolism and IL2 and IFNG secretion.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR221446