

Product datasheet for **MR230290**

Btn2a2 (NM_001289614) Mouse Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Btn2a2 (NM_001289614) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Btn2a2 |
| Synonyms: | Btn2; D030063K05 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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ORF Nucleotide Sequence:

>MR230290 representing NM_001289614
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGCCTACAACCTCCCTGCGTTCTTGCCCGATAGCCTCCCTTCTTCTTCTTGGTCCCTCAGCCTGT
 TTGTGCTGGTCTCAGCCAGTTTACTGTATAGGACCAGCTGAGCCCATCCTGGCCATGGTAGGAGAGAA
 TACCACACTACACTGCCACCTGTACCAGAGAGAAATGCCGAAGAGATGGAGGTGCGGTGGTTCCGGTGG
 CGTTTCTCCCTGCAGTCTGGTGTACAGAGGCCATCAAGAGAGACCAGAGGAGCAGATGGTGGCATAACC
 GAGGAAGAACCACCTTCATGCGCACAGACATCAGCAAGGGAAGAGTTGCGCTCATTATCCACAATGTCAC
 AGCCTATGACAATGGCATCTACTGCTGTTACTTCCAGGAAGGCAGGTCTATGACCAGGCAACCATGAAG
 CTTATGGTGGCAAGCCTGGCTCTGAGCCACTTATAAATGAAGACACTTGAGGATGGGAGCATCTTGC
 TAGAGTGCACATCTGAAGGTGGTACCCAGAGCCCGAGCTGTGTGGAGAGACCCTATGATGAAGTTGT
 ACCTGCCCTGGAGGAGGATATACAGCTGACAGAGAAGGCCTCTCACAGTCACCATGACTATAATCATC
 AGGGACTGCTCTGTGAGGAACATGACCTGCTGTCAATAACACTCTGCTCAGCCAGGAGGTGAAAGTG
 TGATTCTCATTCCAGAATCCTTCGTGCCAGCCTTCTCTGTGGATGGTGGCTGTGGCTGTCACTCTGCC
 TGTAGTAATGCTGATTCTCCTACATCTGGAAGCATCTGCCTTGTCAAGAAACACCGCAGGAAGAAATCT
 ATTCTGTCAGCTGAAAAAGAAGCCGAATATGAAGAGAAGGAAGCTGCACGGCAACTTCAAGAGGAACTGC
 CTGACGTGGTCTTGACCCAGATACAGCTCATCCTGAGCTTCTCTGTGAGTACCCAGAGAAAGTGAAT
 ACGAGGCTCTTCGAGGCAGAGTGTGCTGACAACCCTGAGAGATTGACTGCCGTCCATGTCTCTGGGC
 AGGGAAGCTTCTCCTCAGGGAAGCATTACTGGGAGGTGGAGTGGAAAAATGTAATGGTGTGGGCCATTG
 GTGTTTTGAGACAGCGTGGAAAGGAAGGGGAGGCCCTGTTGGTTCCTCAGAATGGCTCTGGACCTT
 GGAGATGTTTGGGAAGCCAGTATCGAGCCCTGTCTCCAGAAAAGATCATACCTCTGAAAGAGCCTCTT
 CACCGTATAGCTGTCTTCTGGACTGTGAGGGTGGAGATATTTCTTTCTACAACATGAGAGACAGATCAC
 ACATTTACACATGCTCCTCTGTACTTTACTGGGCCCTGAGACCCTTCTTTAGGCTTGGTTCTGATGA
 CAGTCCCCTGTTCTGTCAGCATTACAGGGGCACAGGGAGTTACAATACCTGAGGGTGGCTTATTC
 CTATATAAGACAAGACCAATTTCTCAGAGCCTTGAAGGAAGCCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230290 representing NM_001289614
 Red=Cloning site Green=Tags(s)

MEPTTSLRSCPIASLLFFLVLSLFLVLSAQFTVIGPAEPIILAMVGENTTLHCHLSPERNAEEMEVRWFRW
 RFFPAVLVYRGHQERPEEQMVAYRGRITFMRTDISKGRVALIIHNVTAYDNGIYCCYFQEGRSYDQATMK
 LMVASLGSEPLIKMKTLEDGSILLECTSEGWYPEPRAVWRDPYDEVVPALEEEYADREGLFTVTMTIII
 RDCSVRNMTCSVNNTLLSQEVESVILIPESFVPSLPLWMVAVAVTLPVVMLILLTSGSICLVKKHRRKKS
 ILSAEKEAEYEEKEAARQLQEELPDVLDPDTAHPELFLSDDQRSVIRGSSRQSVDPNPERFDCRCPVLG
 RESFSSGKHYWEVEVENVMVWAI GVCRDSVERKGEALLVPQNGFWTLEMFGSQYRALSSPEKIIPLKERL
 HRIAVFLDCEGGDISFYNMRRDRSHIYTCPVFTFTGPLRPFRLGSDSPLFICPAFTGAQGVTIPEGGLF
 LYKTRPISQSLVRKP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

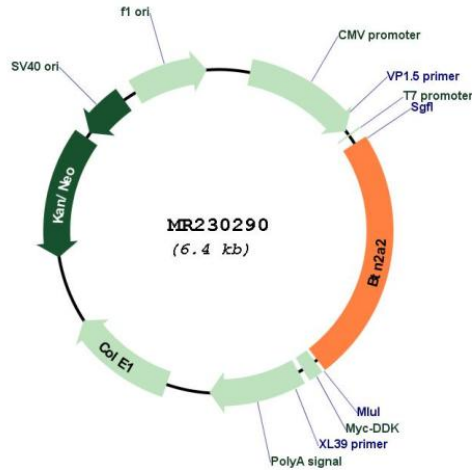
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001289614

ORF Size: 1515 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_001289614.1](#), [NP_001276543.1](#)

RefSeq Size: 2956 bp

RefSeq ORF: 1518 bp

Locus ID: 238555

Cytogenetics: 13 A3.1

MW: 57.7 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]