

Product datasheet for MR201461

Bst2 (NM_198095) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Bst2 (NM_198095) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Bst2
Synonyms: 2310015I10Rik; Bst-2; C87040; CD317; DAMP-1; GREG
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR201461 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGCCCTCTTTCTACTATCTGCCGTGCCATGGATGAGATGGGGGGAAGCAAGGATGGGGCA
 GCCACCGGCAGTGGCTGGGGCCCGCATCTTGGTGGTCTGTTCGGGGTTACCTTAGTCATCCTGACAAT
 CTACTTCGCCGTACAGCGAACAGCGTGGCCTGTAGAGACGGGTGCGAGCGCAGGCTGAGTGCCGGAAC
 ACCACGCACCTGTTGCAGCGCCAGCTCACCCGACCCAGGACAGTCTGCTGCAGGCCGAGACACAGGCAA
 ACTCCTGCAACCTGACCGTGGTACCCTTCAGGAGTCCCTGGAGAAGAAGGTGTCTCAAGCCCTGGAGCA
 GCAGGCCCGCATCAAGGAGCTTGAGAATGAAGTCACGAAGCTGAACCAGGAGCTGGAGAATCTGAGGATC
 CAAAAGGAGACTTCTAGCACAGTGCAGGTGAACCTCTGGCAGCTCCATGGTGGTCTCCAGCCTACTGGTGC
 TCAAAGTGTCAGTGTCTGCTCTTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201461 protein sequence
 Red=Cloning site Green=Tags(s)

MAPSFYHYLPVPMDEMGGKQGWGSHRQWLGAAILVVLFVTLVILTIYFAVTANSVACRDGLRAQAECRN
 TTHLLQRQLTRTQDSLLQAETQANSCNLTVVTLQESLEKKVSQLAQARIKELENEVTKLNQELNLR
 QKETSSTVQVNSGSSMVVSSLLVLKVSFLFLF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_198095

ORF Size: 519 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_198095.3](#)

RefSeq Size: 866 bp

RefSeq ORF: 519 bp

Locus ID: 69550

UniProt ID: [Q8R2Q8](#)

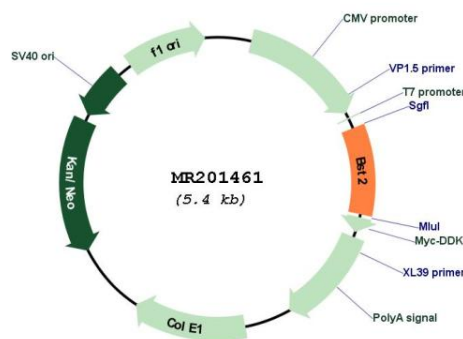
Cytogenetics: 8 B3.3

MW: 19.2 kDa

Gene Summary:

IFN-induced antiviral host restriction factor which efficiently blocks the release of diverse mammalian enveloped viruses by directly tethering nascent virions to the membranes of infected cells. Acts as a direct physical tether, holding virions to the cell membrane and linking virions to each other. The tethered virions can be internalized by endocytosis and subsequently degraded or they can remain on the cell surface. In either case, their spread as cell-free virions is restricted. Its target viruses belong to diverse families, including retroviridae: human immunodeficiency virus type 1 (HIV-1), mouse mammary tumor virus (MMTV) and murine leukemia virus (MLV), filoviridae: ebola virus (EBOV), arenaviridae: lassa virus (LASV), and rhabdoviridae: vesicular stomatitis virus (VSV). Can inhibit cell surface proteolytic activity of MMP14 causing decreased activation of MMP15 which results in inhibition of cell growth and migration. Can stimulate signaling by LILRA4/ILT7 and consequently provide negative feedback to the production of IFN by plasmacytoid dendritic cells in response to viral infection. Plays a role in the organization of the subapical actin cytoskeleton in polarized epithelial cells.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR201461