

Product datasheet for **SC117439**

BST2 (NM_004335) Human Untagged Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | BST2 (NM_004335) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | BST2 |
| Synonyms: | CD317; HM1.24; TETHERIN |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >OriGene ORF within SC117439 sequence for NM_004335 edited (data generated by NextGen Sequencing) ATGGCATCTACTTCGTATGACTATTGCAGAGTGCCCATGGAAGACGGGGATAAAGCGCTGT AAGCTTCTGCTGGGGATAGGAATTCTGGTGCTCCTGATCATCGTGATTCTGGGGTGCCC TTGATTATCTTACCATCAAGGCCAACAGCGAGGCCTGCCGGGACGGCCTTCGGGCAGTG ATGGAGTGTGCAATGTCACCCATCTCCTGCAACAAGAGCTGACCGAGGCCAGAAAGGGC TTTCAGGATGTGGAGGCCAGGCCGCCACCTGCAACCACACTGTGATGGCCCTAATGGCT TCCCTGGATGCAGAGAAGGCCCAAGGACAAAAGAAAGTGGAGGAGCTTGAGGGAGAGATC ACTACATTAACCATAAGCTTCAGGACGCGTCTGCAGAGGTGGAGCGACTGAGAAGAGAA AACCAGGTCTTAAGCGTGAGAATCGCGGACAAGAAGTACTACCCAGCTCCCAGGACTCC AGCTCCGCTGCGGCGCCCAGCTGCTGATTGTGCTGCTGGGCCTCAGCGCTCTGCTGCAG TGA Clone variation with respect to NM_004335.2 |



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004335 unedited
 AATCTCTTGGATATTTGTNAATACGAACTTTACTATGAGGGNCCGGCCGCAATTCGGC
 ACGAGGTGGATGGCATCTACTTCGTATGACTATTGCAGAGTGCCCATGGAAGACGGGGAT
 AAGCGCTGAAGCTTCTGCTGGGGATAGGAATTCTGGTGCCTGATCATCGTGATTCTG
 GGGGTGCCCTTGATTATCTTACCATCAAGGCCAACAGCGAGGCCCTGCCGGGACGGCCT
 CGGGCAGTGATGGAGTGTGCAATGTACCCATCTCTGCAACAAGAGCTGACCGAGGCC
 CAGAAGGGCTTTCAGGATGTGGAGGCCACAGCCGCCACCTGCAACCACACTGTGATGGCC
 CTAAATGGCTTCCCTGGATGCAGAGAAGGCCAAGGACAAAAGAAAAGTGGAGGAGCTTGAG
 GGAGAGATCACTACATTAACCATAAGCTTCAAGGACGCGTCTGCAGAGGTGGAGCGACTG
 AGAAGAGAAAACCAGGTCTTAAGCGTGAGAATCGCGGACAAGAAGTACTACCCAGCTCC
 CAGGACTCCAGCTCCGCTGCGGCCCCAGCTGCTGATTGTGCTGCTGGGCCTCAGCGCT
 CTGCTGCAGTGAGATCCCAGGAAGCTGGCACATCTTGAAGGTCCGTCTGCTCGGCTTT
 TCGCTTGAACATTCCCTTATCTCATCAGTTCTGAGCGGGTCATGGGGCAACACGGTTAG
 CGGGGAGAGCACGGGTAGCCGGAGAAAGCCCTCTGGAGCANGTCTGNGAGGGCCATGGN
 GCAGTCTGGGTGTGGGGACACAGTNCGGGTTGACCCAGGCTGTCTCCCTCCAGAGCCTC
 CCTNCCGGACATGAGTCCCCCTTTGTCTNCCACCCTGAGATTGNGCATGNNGTGCCGT
 GTGNGGGGCATGTGCTGCCCTGTTGTAC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004335 unedited
 CGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGTGCTCTCCCTCAAAGAAG
 TGTTTATTTTTGGAGCTCAAAGACCCAGAAAAACAACCCCCCGCAAAAAAACCC
 ATAACAACAGGCAGCACATGCCCCCACACCGCACCCCATGCCAATCTCAGGGTGGGAG
 ACAAGAGGGGGGACTCATTGTCCGGAGGGAGGCTCTGGAGGGAGACAGCCCTGGGTCAAC
 CCGACTGTGTCCACACCCAGGACTGCCCATGGCCCTCCAGACCTGCTCCAGAGGCC
 TTCTCCGGCTACCCCGTCTCTCCCGCTAACCGTGTGCCCCATGACCCGCTCAGAAC
 TGATGAGATCAAGGGAATGTTCAAGCGAAAAGCCGAGCAGGACGGACCTTCCAAGATGTG
 CCAGCTTCTGGGATCTCACTGCAGCAGAGCGCTGAGGCCAGCAGCACAATCAGCAGCT
 GGGGCGCCGACGCGGAGCTGGAGTCTGGGAGCTGGGGTAGTACTTCTTGTCCGCGATT
 TCACGCTTAAGACCTGGTTTTCTTCTCAGTCGCTCCACCTCTGCAGACCCGGTCTGAA
 CCTTATGGGTTAATGTAGTGATCTCCTCCTCAAGCTCCTTCACTTTCTTTTGTCTTGGG
 CCTTCTGCATCCAGGGAAGCCATTAAGGCCATCCCAGTGGGGTTGCAAGTGGCCGTCT
 GGGCCCTCACATCCCTGAAGCCCTTTTGGCCCTTTGTATCTCTTGTGCAAGAGATGGG
 CGACATTGCGACCTTCTTATTGCCTAAGGGCGTTCTGCAAGGCTTCGTGTTGGCCCTGT
 GGGTAAATAATCACGGCCCCCGAATCCCAGATCGGGACCCAGAATTCTTCCACAAA
 ACTTCAGGGTTTTCCCTTTTCCGGCCCTTGAATGACAACCAAAAAAG

Restriction Sites:

NotI-NotI

ACCN:

NM_004335

Insert Size:

900 bp

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| OTI Disclaimer: | <p>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.</p> <p>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</p> |
| 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: | <ol style="list-style-type: none"> 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_004335.2 , NP_004326.1 |
| RefSeq Size: | 983 bp |
| RefSeq ORF: | 543 bp |
| Locus ID: | 684 |
| UniProt ID: | Q10589 |
| Cytogenetics: | 19p13.11 |
| Protein Families: | Druggable Genome, ES Cell Differentiation/IPS, Transmembrane |
| Gene Summary: | Bone marrow stromal cells are involved in the growth and development of B-cells. The specific function of the protein encoded by the bone marrow stromal cell antigen 2 is undetermined; however, this protein may play a role in pre-B-cell growth and in rheumatoid arthritis. [provided by RefSeq, Jul 2008] |