

## Product datasheet for **SC320381**

### Bone marrow stromal cell antigen 1 (BST1) (NM\_004334) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Bone marrow stromal cell antigen 1 (BST1) (NM\_004334) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Bone marrow stromal cell antigen 1  
**Synonyms:** CD157  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC (PS100020)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_004334.1  
 GGAACCGCCTTGGTAGAAGGAGAGAAGGGGAGTGGAGGAAGCACGGGACTGGAGGGACCA  
 AAGTTCCCGATGGCGGCCAGGGGTGCGCGGCATCGCGGCTGCTCCAGCTGCTGTGCA  
 GCTTCTGCTTCTACTGTTGCTGCTGCGCGCGGGCGGGCGCGCGCGGTGGCGCGGGGA  
 GGGCACCAAGCGCACACTTGC GGACATCTTCTGGCCGCTGCGCCGAGTACCGCGCACT  
 GCTGAGTCCCAGCAGCGGAACAAGAACTGCACAGCCATCTGGGAAGCCTTTAAAGTGGC  
 GCTGGACAAGGATCCCTGCTCCGTGCTCCCTCAGACTATGACCTTTTTATTAATTGTC  
 CAGGCACTCTATCCCAGAGATAAGTCCCTGTTCTGGGAAAATAGCCACCTCCTTGTTAA  
 CAGCTTTCGACACAACACCCGTCGTTTTATGCCCTGAGCGATGTTCTGTATGGCAGGGT  
 TGCAGATTTCTGAGCTGGTGTGACAGAAAAATGACTCTGACTCGATTACCAATCCTG  
 CCCTACATCAGAAGACTGTGAAAATAATCCTGTGGATTCTTTTTGAAAAGGGCATCCAT  
 CAGTATCCAAAGGATAGTTCTGGGGTATCCAGTCATGCTGAATGGTTCAGAGCCAAC  
 AGGAGCCTATCCCATCAAAGTTTTTTTTGCAGATTATGAAATTCCAAACCTCCAGAAGGA  
 AAAAAATACAGCAATCGAGATCTGGGTTATGCATGAAATTGGGGGACCCAATGTGGAATC  
 CTGCGGGGAAGGCAGCATGAAAGTCTGGAAAAGAGGCTGAAGGACATGGGGTCCAGTA  
 CAGCTGTATTAATGATTACCGACCAGTGAAGCTTTACAGTGCCTGGACCACAGCACCCA  
 TCCTGACTGTGCCTTAAAGTCGGCAGCAGCCGCTACTCAAAGAAAAGCCCAAGTCTTTA  
 TACAGAACAAAGGGCGGGTCTTATCATTCCCCTCTTTCTGGTGTGGCTTCCAGGACTCA  
 ACTGTAAGTGGAACTGTGTTGCTTAACCTCCTCCAGCCCTGCAGCCTCCCCCTTGCA  
 GTCATCTCGTGTCTGTGTATACCAAATGATTCTGTTATCTAAAGAAGCTTTTTGCTG  
 GAAAAACGATGCTCCTGAAAATGGTATTTCAATGAGGCATATGTTCAAGATTTAGAAACA  
 AGAAGTTAGTTCTATTTAGCAGGTTAAAAATGCTGCATTAGAATTAAGCAAGTTATTT  
 TCTTATTTGTATAATGACACAAAGCATTGGGAGTCAGACTGCTTGTATATTATCAAACAT  
 TTTAAGAGAATTCTAATAAAGCTGTATTTTACATCAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire



[View online »](#)

|                               |  |
|-------------------------------|--|
| <b>ACCN:</b>                  | NM_004334  |
| <b>OTI Disclaimer:</b>        | <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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a></p> |
| <b>OTI Annotation:</b>        | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.   |
| <b>Components:</b>            | 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).   |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>  |
| <b>RefSeq:</b>                | <a href="#">NM_004334.1</a> , <a href="#">NP_004325.1</a>  |
| <b>RefSeq Size:</b>           | 1411 bp  |
| <b>RefSeq ORF:</b>            | 957 bp   |
| <b>Locus ID:</b>              | 683  |
| <b>UniProt ID:</b>            | <a href="#">Q10588</a>   |
| <b>Cytogenetics:</b>          | 4p15.32  |
| <b>Domains:</b>               | Rib_hydrolase  |
| <b>Protein Families:</b>      | Transmembrane  |
| <b>Protein Pathways:</b>      | Calcium signaling pathway, Metabolic pathways, Nicotinate and nicotinamide metabolism  |

**Gene Summary:**

Bone marrow stromal cell antigen-1 is a stromal cell line-derived glycosylphosphatidylinositol-anchored molecule that facilitates pre-B-cell growth. The deduced amino acid sequence exhibits 33% similarity with CD38. BST1 expression is enhanced in bone marrow stromal cell lines derived from patients with rheumatoid arthritis. The polyclonal B-cell abnormalities in rheumatoid arthritis may be, at least in part, attributed to BST1 overexpression in the stromal cell population. [provided by RefSeq, Jul 2008]