

Product datasheet for **RG204151**

Bone marrow stromal cell antigen 1 (BST1) (NM_004334) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bone marrow stromal cell antigen 1 (BST1) (NM_004334) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Bone marrow stromal cell antigen 1
Synonyms:	CD157
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204151 representing NM_004334 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCCAGGGGTGCGCGGCATCGCGGCTGCTCCAGCTGCTGCTGCAGCTTCTGCTTCTACTGTTGC
TGCTGGCGGGCGGGCGCGCGCGGTGGCGGGGAGGGCACCAGCGCACACTTGCGGGACATCTT
CCTGGGCCGCTGCGCCGAGTACCGCGACTGCTGAGTCCCAGCAGCGGAACAAGAAGTGCACAGCCATC
TGGGAAGCCTTTAAAGTGGCGTGGACAAGGATCCCTGCTCCGTGCTCCCCTCAGACTATGACCTTTTTA
TTAACTTGTCCAGGCACTCTATTCCAGAGATAAGTCCCTGTTCTGGGAAAATAGCCACCTCCTTGTAA
CAGCTTTGCAGACAACACCCGTCGTTTTATGCCCTGAGCGATGTTCTGTATGGCAGGGTTCAGATTTTC
TTGAGCTGGTGTGACAGAAAAATGACTCTGGACTCGATTACCAATCCTGCCCTACATCAGAAGACTGTG
AAAATAATCCTGTGGATTCCTTTTGAAAAGGGCATCCATCCAGTATTCCAAGGATAGTTCTGGGGTGT
CCACGTATGCTGAATGGTTCAGAGCCAACAGGAGCCTATCCCATCAAAGGTTTTTTGCAGATTATGAA
ATTCCAAACCTCCAGAAGGAAAAAATTACAGAAATCGAGATCTGGGTTATGCATGAAATGGGGACCCA
ATGTGGAATCCTGCGGGGAAGGCAGCATGAAAGTCTGAAAAGAGGCTGAAGGACATGGGGTCCAGTA
CAGCTGTATTAATGATTACCGACCAGTGAAGCTTTACAGTCCGTGGACCACAGCACCCATCCTGACTGT
GCCTTAAAGTCGGCAGCAGCCGCTACTCAAAGAAAAGCCCAAGTCTTTATACAGAACAAGGGCGGGTC
TTATCATTCCCCTTTTCTGGTGTGGCTTCCAGGACTCAACTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204151 representing NM_004334
 Red=Cloning site Green=Tags(s)

MAAQGCAASRLLQLLLQLLLLLLLLLLAAGGARARWRGEGTSAHLRDI FLGRCAEYRALLSPEQRNKNTAI
 WEAFKVALDKDPCSVLPDYDLFINLSRHSIPRDKSLFWENSHLLVNSFADNTRRFMPLSDVLYGRVADF
 LSWCRQKNDSDLDYQSCPTSEDCENNPVDSFWKRASIQYSKSSGVIHVMLNGSEPTGAYPIKGFADYE
 IPNLQKEKITRIEIWVMHEIGGPNVESCGEESMKVLEKRLKDMGFQYSCINDYRPVKLLQCVDHSTHPDC
 ALKSAAAATQRKAPSLYTEQRAGLIIPFLVLASRTQL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004334

ORF Size: 954 bp

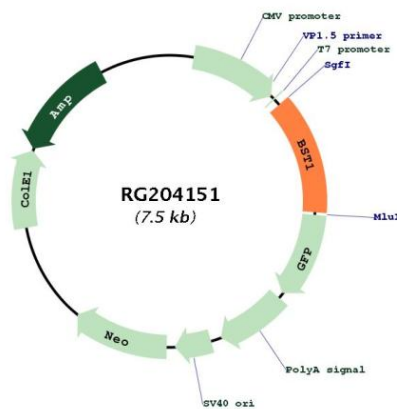
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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:	<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:	<u>NM_004334.1, NP_004325.1</u>
RefSeq Size:	1411 bp
RefSeq ORF:	957 bp
Locus ID:	683
UniProt ID:	<u>Q10588</u>
Cytogenetics:	4p15.32
Domains:	Rib_hydrolayse
Protein Families:	Transmembrane
Protein Pathways:	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]

Product images:



Circular map for RG204151