

## Product datasheet for **MC200670**

### Bsg (NM\_001077184) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Bsg (NM\_001077184) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Bsg  
**Synonyms:** AI115436; AI325119; CD147; EMMPRIN; HT-7  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC010270 sequence for NM\_001077184  
GACATGGCGGCGCGCTGCTGCTGGCCTTACGCTCTTGAGCGGCCAAGGCGCCTGCGCGGCGG  
CGGGACCATCCAAACCTCGGTCCAGGAAGTCACTCCAAAACACAGCTTACCTGCTCTTTGAACAGCAG  
TGGCGTTGACATCGTTGGCCACCGCTGGATGAGAGGTGGCAAGGTAAGTGCAGGAGACACTCTGCCCGAC  
CTGCATACGAAGTACATAGTGGACGCAGATGACCGCTCTGGGGAATATTCTGCATCTTCTTCTGAGC  
CTGTGGGCAGAAGCGAGATCAATGTGGAAGGGCCACCCAGGATCAAGGTCGGAAGAAATCAGAGCATT  
CAGTGAGGGAGAGCTTGCAAAAGTGGTCTGCAAGTCCGATGCATCCTACCCTCTATTACAGATTGGTTC  
TGGTTTAAAGACCTCTGACACTGGGGAAGAAGAGGCAATCACCAATAGCACTGAAGCCAATGGCAAGTATG  
TGGTGGTATCCACGCCTGAGAAGTCACAGCTGACCATCAGCAACCTTGACGTAATGTTGACCCTGGCAC  
CTACGTGTGTAATGCCACCAACGCCAGGGCACTACTCGGAAACCATCTCACTGCGTGTGGGAGCCGC  
ATGGCAGCCCTCTGGCCCTTCTAGGCATCGTGGCTGAGGTCCTGGTGTGGTTACCATCATCTTTATCT  
ATGAGAAGAGGCGGAAGCCAGACCAGACCCTGGACGAGGATGACCTGGCGCCGCCCACTGAAGGGCAG  
TGGAACTCACATGAATGACAAGGACAAGATGTACGCCAGAGGAACGCCACCTGAGTGGTGGGCGAGGCG  
GGGGAGGGGAGGTGCCAGGGTGCCTGACCCAGGCCAGCGTCTACCTCCACTCCAGTATCCCATCTGT  
CCCAATTTGAACCTACCCAACCAACCTATCCCAACCAAGTGAAGACAGAGCCTTACCTTACAGAAAAAC  
CCACCTGGAAGAAGCAAGCCACTGCAGCCCCTGTTTCTAATTTAACTAAATGAGGTTTCTATGCAGAC  
AATCCATTCTTAGGGTTTATGTTTTATTTTTCTTCCCTTCTGAAGTGTGTCACTACAGCCCTGTG  
GAGTGGGGGAATGGGGCCTTGTCTTGGTCAGGAGGGAAGGCCAGCGCATGCTCTGACTTACTGTTGGAG  
GGGGCTGGGCTGCTGGAACCCCAAAATAAGACCTACCCACCAAAAAAAAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI  
**ACCN:** NM\_001077184  
**Insert Size:** 822 bp



[View online »](#)

**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](mailto: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](#)

**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:** [BC010270](#), [AAH10270](#)

**RefSeq Size:** 1287 bp

**RefSeq ORF:** 822 bp

**Locus ID:** 12215

**UniProt ID:** [P18572](#)

**Cytogenetics:** 10 39.72 cM

**Gene Summary:** Plays an important role in targeting the monocarboxylate transporters SLC16A1, SLC16A3, SLC16A8, SLC16A11 and SLC16A12 to the plasma membrane. Plays pivotal roles in spermatogenesis, embryo implantation, neural network formation and tumor progression. Stimulates adjacent fibroblasts to produce matrix metalloproteinases (MMPS). Seems to be a receptor for oligomannosidic glycans. In vitro, promotes outgrowth of astrocytic processes. [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 5' coding region, compared to variant 1. The resulting isoform (2) has a shorter N-terminus when compared to isoform 1.