

Product datasheet for **MG225905**

Bsg (NM_009768) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bsg (NM_009768) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Bsg
Synonyms:	AI115436; AI325119; CD147; EMMPRIN; HT-7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG225905 representing NM_009768 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCGCGGCTGCTGCTGGCGCTGGCCTTCACGCTCTTGAGCGGCCAAGGCGCTGCGCGCGGCTG
GTTTCCTCAAGGCACCACTGTCGAGGAGCGGTGGCGGGGGGCAGCGTGGTCTGCACTGTGAGGCTGT
GGGAGCCCATCCCGAGATCCAGTGGTGGTTGAAGGGAATGCTCAAACGACAGCTGCTCCAGCTC
TGGGATGGTGCCCGCTGGACCGTGTTCACATCCATGCCGCTACCGTCAGCATGCAGCCAGTTCGCTCT
CTGTTGATGGGCTCACCGCAGAGGACACAGGCCTTACGAGTGGCGGCCAGCAGTGACCCAGACCGCAA
CCACCTTACTCGGCCACCCAGGGTCAAGTGGGTCCGTGCCAGGCGAGCGTGGTGGTCTTGAACCGGGC
ACCATCAAACCTCTGTCCAGGAAGTCAACTCCAAAACACAGCTTACCTGCTCTTGAACAGCAGTGGCG
TTGACATCGTTGGCCACCGCTGGATGAGAGGTGGCAAGTACTGCAGGAGGACACTTGCCCGACCTGCA
TACGAAGTACATAGTGGACGCAGATGACCGCTCTGGGGAATTCCTGCATCTTCCTTCTGAGCCTGTG
GGCAGAAGCGAGATCAATGTGGAAGGGCCACCCAGGATCAAGGTCGAAAGAAATCAGAGCATTCCAGTG
AGGGAGAGCTTGCAGAACTGGTCTGCAAGTCCGATGCATCCTACCCTCCTATTACAGATTGGTTCTGGTT
TAAGACCTCTGACACTGGGAAGAAGAGGCAATACCAATAGCACTGAAGCAATGGCAAGTATGTGGTG
GTATCCACGCTGAGAAGTCACAGCTGACCATCAGCAACCTTACGTAATGTTGACCTGGCACCTAGC
TGTGTAATGCCACCAACGCCAGGGCACTACTCGGAAACCATCTCACTGCGTGTGCGGAGCCGCATGGC
AGCCCTCTGGCCCTTCTAGGCATCGTGCTGAGGTCCTGGTGTGGTTACCATCATCTTTATCTATGAG
AAGAGGCGGAAGCCAGACCAGACCTGGACGAGGATGACCCTGGCGCCGCCCACTGAAGGGCAGTGGAA
CTCACATGAATGACAAGGACAAGAATGTACGCCAGAGGAACGCCACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG225905 representing NM_009768
Red=Cloning site Green=Tags(s)

MAAALLLALAFTLLSGQGACAAAGFLKAPLSQERWAGGSVVLHCEAVGSPPIPEIQWWFEGNAPNDSCSQL
 WDGARLDRVHIHAAYRQHAASSLSVDGLTAEDTGTIECRASSDPDRNHLTRPPRVKVVRAQASVVLEPG
 TIQTSVQEVNSKTQLTCSLNSSGVDIVGHRWMRGGKVLQEDTLPDLHTKYIVDADDRSGEYSICIFLPEPV
 GRSEINVEGPPRIKVGKKSEHSSEGELAKLVCKSDASYPPITDWFWFKTSDTGEEEAITNSTEANGKYVV
 VSTPEKSQLTISNLDVNVDPGTYYCNATNAQGTRETISLRVRSRMAALWPFLGIVAEVLVLVTIIFIYE
 KRRKPDQTLDEDDPGAAPLKSGSGTHMNDKDKNVRQRNAT

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja1626_h05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_009768

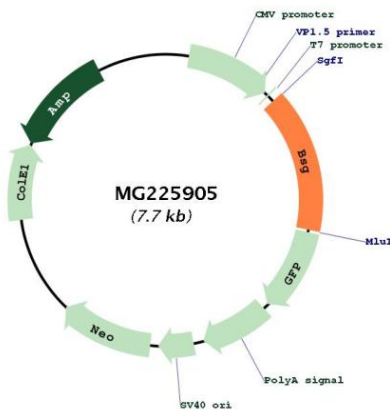
ORF Size: 1167 bp

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:**
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_009768.2](#), [NP_033898.1](#)
- RefSeq Size:** 1752 bp
- RefSeq ORF:** 1170 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]

Product images:



Circular map for MG225905