

## Product datasheet for **MC219180**

### **Bag3 (NM\_013863) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Bag3 (NM_013863) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Bag3
Synonyms:	AA407278; Bis; mg638
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC219180 representing NM\_013863  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGCGCCGCCACCCAATCGCCATGATGCAGATGGCGTCCGGCAACGGAGCCAGCGACCGAGACCCCC  
 TGCCCCGGGCTGGGAGATCAAAATCGACCCGACAGCCGGCTGGCCCTTCTTCGTGGACCACAACAGCCG  
 CACCACGACGTGGAACGACCCCGGTGTGCCCCCGAGGGCCCTAAGGACACTGCATCTTCAGCCAATGGC  
 CCTTCCGCGATGGCTCCCGCTGCTGCCATTAGGGAAGGCCACCCCATATACCCAGCTCCGACCAG  
 GCTACATTTCCATCCCGTCTCCATGAAGGCTCCGAGAACCAGCCAGCCACCTTTTCCATGCCTACTC  
 CCAGCCTGGGGTGCAGCGATTTCTGACCGAGGCTGCAGCGCCACTCCGAGAGGTCAGTCTCCTTTA  
 CGTGGCGCATGACAGAAGCCGCCAGACAGATAAACAGTGTGGACAGATGCCGCAACTGCAACAAGT  
 CAGCAGCTCAGCCCCAACTGCTCATGGACCTGAGCGATCTCAGTCTCCAGCTGCCTCTGACTGCTCATC  
 CTCTTCTCCTCGCCAGCCTGCCCTCCTCCGGCAGGAGCAGTCTGGGTAGCCATCAGCTCCCCAGGGGC  
 TACATCCCATCCCGTGATACATGAGCAGAATATCACCCGGCCAGCAGCCAGCCCTCCTTCCACCAAG  
 CCCAGAAGACCCACTACCCAGCTCAGCAGGGTGAATACCAGCCCCAGCAGCCTGTATACCACAAGATCCA  
 GGGCGATGACTGGGAGCCCCGGCCGTTTCGAGCCGTTTCCATTAGGTACCCCGTCAGAGGTGCTTCC  
 AGCCGGGAAGGCTCGCCCGCCAGAAGCGGCACACCGGTTCACTGCCCATCTCCATCCGTGTGCACACAG  
 TGGTTGACAGGCCTCAGCCCATGACCCATCGAGAGCCTCCACCTGTTACCCAACCCGAAAACAAACCAGA  
 AAGTAAGCCAGGCCAGCCGGACAGACCTCCCTCCTGGACACATCCCCATCCAAGTGATCCGAAGGGAG  
 GCAGACTAAGCCTGTTTCCCAGAAGTCACCTCCTCCTGCTGAAAAGGTAGAAGTAAAGGTCTCCTCTG  
 CTCCAATTCCTTGTCTTCTCCAGCCCGCTCCTTCGGCTGTCCCTTCTCCCCCAAGAATGTGGCTGC  
 AGAACAGAAGGGCGCCCCAGCCCTGCCCTGCAGAACCCTGCAGCCCCAAATCGGGAGAAGCCGAAACA  
 CCCCCTAAGCATCCAGGTGTGCTGAAAGTGGAAGCCATCCTGGAGAAGGTACAAGGGCTGGAGCAGGCTG  
 TAGACAGCTTTGAAGGCAAGAAGACTGATAAAAAATACCTGATGATCGAAGAGTATTTGACCAAAGAGCT  
 GCTGGCCCTGGATTCCGTAGACCCTGAAGGACGAGCTGATGTGCGGCAGGCCAGGAGAGATGGCGTCAGG  
 AAGGTTGACACCATCTTGAAAAACTTGAGCAGAAAGCAATTGATGTCCAGGTCAAGTACAAGTCTATG  
 AACTCCAGCCAGCAACCTTGAGGCCGAGCAGCCACTCCAGGAAATCATGGGTGCCGTGGTAGCCGACAA  
 GGATAAGAAAGGTCTGAAAACAAAGATCCACAACTGAAAGCCAACAGCTAGAAGCCAAAGCAGCCACA  
 CCTCAAATCCCAGCAACCCAGCAGACTCAGCTGGCAACCTGGTGGCTCCCTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_013863  
**Insert Size:** 1734 bp

<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>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_013863.5</a> , <a href="#">NP_038891.4</a>
<b>RefSeq Size:</b>	2607 bp
<b>RefSeq ORF:</b>	1734 bp
<b>Locus ID:</b>	29810
<b>UniProt ID:</b>	<a href="#">Q9JLV1</a>
<b>Cytogenetics:</b>	7 F3
<b>Gene Summary:</b>	Co-chaperone for HSP70 and HSC70 chaperone proteins. Acts as a nucleotide-exchange factor (NEF) promoting the release of ADP from the HSP70 and HSC70 proteins thereby triggering client/substrate protein release. Nucleotide release is mediated via its binding to the nucleotide-binding domain (NBD) of HSPA8/HSC70 where as the substrate release is mediated via its binding to the substrate-binding domain (SBD) of HSPA8/HSC70. Has anti-apoptotic activity. Plays a role in the HSF1 nucleocytoplasmic transport.[UniProtKB/Swiss-Prot Function]