

Product datasheet for **SC117478**

BAG3 (NM_004281) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BAG3 (NM_004281) Human Untagged Clone
Tag:	Tag Free
Symbol:	BAG3
Synonyms:	BAG-3; BIS; CAIR-1; MFM6
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_004281, the custom clone sequence may differ by one or more nucleotides

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ATGAGCGCCGCCACCCACTCGCCATGATGCAGGTGGCGTCCGGCAACGGTGACCGCGACCCCTTTGCCCC
CCGGATGGGAGATCAAGATCGACCCGACAGCCGGCTGGCCCTTCTCGTGGACCACAACAGCCGCACCAC
TACGTGGAACGACCCGCGCTGCCCTCTGAGGGCCCCAAGGAGACTCCATCCTCTGCCAATGGCCCTTCC
CGGGAGGGCTCTAGGCTGCCGCTGCTAGGGAAGGCCACCCTGTGTACCCCCAGCTCCGACCAGGCTACA
TTCCATTCTGTGCTCCATGAAGGCGCTGAGAACCAGGAGGTGCACCCCTTCCATGTCTATCCCCAGCC
TGGGATGCAGCGATTCCGAACTGAGCGGCAGCAGCGGCTCCTCAGAGGTCCCAGTCACTCTGCGGGGC
ATGCCAGAAACCACTCAGCCAGATAAACAGTGTGGACAGGTGGCAGCGCGGGCGGAGCCAGCCCCCAG
CCTCCACGGACTGAGCGGTCCAGTCTCCAGTGCCTCTGACTGCTCATCCTCATCCTCTCGGCCAG
CCTGCCTTCTCCGGCAGGAGCAGCCTGGGCGTACCAGCTCCCGGGGGTACATCTCCATTCCGGTG
ATACACGAGCAGAACGTTACCCGGCCAGCAGCCAGCCCTCCTTCCACCAAGCCAGAAGACGCACTACC
CAGCGCAGCAGGGGAGTACCAGACCCACCAGCCTGTGTACCACAAGATCCAGGGGGATGACTGGGAGCC
CCGGCCCTGCGGGCGGCATCCCGTTCAGGTCACTGTCCAGGGTGCATCGAGCCGGGAGGGCTACCA
GCCAGGAGCAGCAGCCACTCCACTCCCCCTCGCCCATCCGTGTGCACACCGTGGTGCAGAGCCTCAGC
AGCCCATGACCCATCGAGAACTGCACCTGTTTCCCAGCCTGAAAACAAACCAGAAAAGTAAGCCAGGCC
AGTTGGACCAGAACTCCCTCCTGGACACATCCCAATTAAGTGATCCGCAAGAGGTGGATTCTAAACCT
GTTTCCCAGAAGCCCCACCTCCCTCTGAGAAGGTAGAGGTGAAAGTTCCCCCTGCTCCAGTTCCTGTG
CTCCTCCAGCCCTGGCCCTTCTGCTGTCCCTTCCCCAAGAGTGTGGCTACAGAAGAGAGGGCAGC
CCCCAGCACTGCCCTGCAGAAGCTACACTCCAAAACCAGGAGAAGCCGAGGCTCCCCAAAACATCCA
GGAGTGTGAAAGTGGAAGCCATCCTGGAGAAGTACAGGGGCTGGAGCAGGCTGTAGACAACCTTGAAG
GCAAGAAGACTGACAAAAAGTACCTGATGATCGAAGAGTATTTGACCAAAGAGTCTGGCCCTGGATTTC
AGTGGACCCCGAGGGACGAGCCGATGTGCGTCAAGCCAGGAGAGACGGTGTGAGGAAGTTCCAGCCATC
TTGAAAAAAGTGAACAGAAAGCCATTGATGTCCAGGTCAAGTCCAGGTCTATGAACTCCAGCCAGCA
ACCTTGAAGCAGATCAGCCACTGCAGGCAATCATGGAGATGGGTGCCGTGGCAGCAGACAAGGGCAAGAA
AAATGCTGAAATGCAGAAGATCCCCACACAGAAACCAGCAGCCAGAAGCCACAGCAGCAGCGACTTCA
AACCCAGCAGCATGACAGACACCCTGGTAACCCAGCAGCACCCTAG
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004281 unedited

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GTAAACGTCAAAATTTGTAACGACTCACTATAGGCGGCCGGAATTCGCACGAGGGCGA
GGAGGCTATTTCCAGNAACTTCCACCCCTCTCTGGCCACGTACCCCCGCTTTAATTCA
TAAAGGTGCCCGCGCCGGCTTCCCGGACACGTCCGGCGGCGAGAGGGGGCCACGGCGGC
GGCCCCGGCCAGAGACTCGGCGCCCGGAGCCAGCGCCCCGACCCGCGCCCCAGCGGGCA
GACCCCAACCCAGCATGAGCGCCGCCACCCACTCGCCCATGATGCAGGTGGCGTCCGCA
AACGGTGACCCGCGACCCTTTGCCCCCGGATGGGAGATCAAGATCGACCCCGCAGACCCGG
GCTGGCCCTTCTCGTGGGACCACAACAGCCGCAACCACTACGTGGAACGACCCGCGCGTG
CCCTCTGAGGGCCCCAAAGAGACTCCATCCTCTGCCAATGGCCCTTCCCGGGAGGGCTCT
AGGCTGCCGCTGCTAGGGAAAGCCACCCTGTGTACCCCGAGCTCCGACCAGGCTACATT
CCCATTCTGTGCNTCCATGAAGCGCTGANGACCGGCAGGTGCACCCTTTCATGTCTAT
CCCCACCTGGGATGCAGCGATTCCGAAGTGAAGCGGCAGCAGCGGCTCCTCAGAGGTCCC
AGTCACCTCTGCGGGCATGCCAGAAACCACTCAGCCAGATAAACAGTGTGGACAGGTGG
CAGCGGGCGGCGAGCCAGCCCCAGCCTCCACGGACTGAGCGGTCCAGTCTCCAG
CTGCCTCTGACTGCTCATCCTCATCCTCCTCGGCCAGCCTGCCTTCTCCGGCAGGAGCA
GCCTGGGCAGTACCAGCTCCCGGGGGTACATCTCCATTCCGGTGATACACGAGCAGA
ACGTTACCCCGCCAGC
    
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3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_004281 unedited ACGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTGGAGTTATATTACTTTTATTTTC TTTTTTTAAAAATGTAGCATTAAAGTCATCCAACATACAGATATTCCTATGGCTCCTGGCA CATTTTACTCTCTCTAAAGTCAGGTATTTTAATTATGAGATGAAGAAAATCATCTCATT AAATGGCAACATTTCTGATAAATGTTTCATATTTATGTGATGGTAATTGACTCCCCATC TACCCCTCCAGTCCAGAGCTACAAAAGACAGTGCACAACCACAGCTAACAGGTGGTGGG GTGCCCAAGTAGACAGGGCTGCAGAACAACAAGCAACGGGGTTAAACTTCTCAAACAACA AGCAACTTCTTTATTTGTACAGAGTAAGAATATAGAAGAAAAGCATCATTTTCCTTTT GCCCTTTTATTAGTGTTTTGCCTCCACCCAAGTACTGCATACCAAGCAGCTAATAAAAA CCAACTGACTTAAAGTCTCTGAAATGCATGCAACTTATAATTCCCTAAAGCACACATCGG TTCCGAGTCTGATTTTTACAGGGCATAAGCTACCGCGCTGCTGGGCTACCAGGGGTGTCT GTCATGCCGCTGGGGTTGAACCCCTGCTGCTGAGGCTTCTGGCCGCTGGGCTTCCGCGC GGGGGATCTGCATCTCCAGCCCCTTTTTGCCCTTTCGGGTTCCACGGGACCCCTTTC CCTGATTGGCTTACCCGCCACTCCCGCTCCAGGGGCTCGGCTAGGATTCTACACCCG ACCTGCCCTGGACTTATTGCCTTCTCGTAACTTTTTTCATAAGGGCGGACCTCTCCGAC CAGGCTTCTGTCTTCCACCATCACTTTCTCTCCGGTCCACGATCCACGGACCTTCT GTGACGATCTCAGCCGCTAGACTCTTTGACTACTCTTTAAATCTACCATTCCCTAC TCCCCTCCCCCGCTGCCCTGG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_004281
Insert Size:	2560 bp
OTI Disclaimer:	<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 custsupport@origene.com 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. More info</p>
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:	NM_004281.3 , NP_004272.2

RefSeq Size: 2608 bp

RefSeq ORF: 1728 bp

Locus ID: 9531

UniProt ID: [O95817](#)

Cytogenetics: 10q26.11

Domains: WW, BAG

Protein Families: Druggable Genome

Gene Summary: BAG proteins compete with Hip for binding to the Hsc70/Hsp70 ATPase domain and promote substrate release. All the BAG proteins have an approximately 45-amino acid BAG domain near the C terminus but differ markedly in their N-terminal regions. The protein encoded by this gene contains a WW domain in the N-terminal region and a BAG domain in the C-terminal region. The BAG domains of BAG1, BAG2, and BAG3 interact specifically with the Hsc70 ATPase domain in vitro and in mammalian cells. All 3 proteins bind with high affinity to the ATPase domain of Hsc70 and inhibit its chaperone activity in a Hip-repressible manner. [provided by RefSeq, Jul 2008]