

Product datasheet for **SC320765**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF:

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>OriGene sequence for NM_004281.3
GGGCCGCGCCAACTTCTCTGGACTGGACCAGAAGTTTCTAGCCGGCCAGTTGCTACCTC
CCTTTATCTCCTCCTTCCCCTCTGGCAGCGAGGAGGCTATTTCCAGACACTTCCACCCCT
CTCTGGCCACGTACCCCCGCCTTAATTCATAAAGGTGCCCGGCCGCGGCTTCCCGGAC
ACGTGGCGGGGAGAGGGGGCCACGGCGGGCGCCCGCCAGAGACTCGGCGCCCGGAGC
CAGCGCCCCGCACCCGCGCCACGGGGCAGACCCCAACCCAGCATGAGCGCCGCCACCC
ACTCGCCATGATGCAGGTGGCGTCCGGCAACGGTGACCGCGACCCTTTGCCCCCGGAT
GGGAGATCAAGATCGACCCGAGACCCGGCTGGCCCTTCTTCGTGGACCACAACAGCCGCA
CCTACTAGTGGAACGACCCGCGCGTGCCTCTGAGGGCCCAAGGAGACTCCATCCTCTG
CCAATGGCCCTTCCCGGGAGGGCTTAGGCTGCCGCTGCTAGGGAAGGCCACCTGTGT
ACCCCCAGCTCCGACCAGGCTACATTCCTATTCTGTGCTCCATGAAGGCGCTGAGAACC
GGCAGGTGCACCTTTCCATGTCTATCCCAGCCTGGGATGCAGCGATTCCGAACAGG
CGGCAGCAGCGGCTCCTCAGAGGTCCCAGTACCTCTGCGGGCATGCCAGAAACACTC
AGCCAGATAAACAGTGTGACAGGTGGCAGCGGGCGGCAGCCAGCCCCAGCCTCCC
ACGGACCTGAGCGGTCCCAGTCTCCAGTGCCTCTGACTGCTCATCCTCATCCTCCTCGG
CCAGCCTGCCTTCTCCGCGAGGAGCAGCTGGGCAGTACCAGCTCCCGCGGGGTACA
TCTCCATTCCGGTGATACACGAGCAGAACGTTACCCGGCCAGCAGCCAGCCCTCCTTCC
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TGTACCACAAGATCCAGGGGGATGACTGGGAGCCCCGGCCCTGCGGGCGGCATCCCCGT
TCAGGTCACTGTCCAGGGTGCATCGAGCCGGGAGGGCTCACCAGCCAGGAGCAGCACGC
CACTCCACTCCCCTCGCCATCCGTGTGCACACCGTGGTGCAGAGCCCTCAGCAGCCCA
TGACCCATCGAGAAACTGCACCTGTTTCCAGCCTGAAAAACAAACCAGAAAGTAAAGCCAG
TGGATTCTAAACCTGTTTCCAGAAAGCCCCACCTCCCTCTGAGAAGGTAGAGGTAAAG
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CCCCAAGAGTGTGGCTACAGAAGAGAGGGCAGCCCCAGCACTGCCCTGCAGAAGCTA
CACCTCCAAAACAGGAGAAGCCGAGGCTCCCCAAAACATCCAGGAGTGTGAAAGTGG
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AGATGGGTGCCGTGGCAGCAGACAAGGGCAAGAAAAATGCTGGAATGCAGAAGATCCCC
ACACAGAAACCCAGCAGCCAGAAGCCACAGCAGCAGCGACTTCAAACCCAGCAGCATGA
CAGACACCCCTGGTAACCCAGCAGCACCCTAGCCTCTGCCTGTAAAAATCAGACTCGGA
ACCGATGTGTGCTTTAGGGAAATTTAAGTTGCATGCATTTAGAGACTTTAAGTCAGTTG
GTTTTTATTAGCTGCTTGGTATGCAGTAACCTGGGTGGAGGCAAAACACTAATAAAGGG
CTAAAAAGGAAAAATGATGCTTTTCTTCTATATTCTTACTCTGTACAAATAAAGAAGTTGC
TTGTTGTTTGAGAAGTTTAAACCCGTTGCTTGTGTTCTGCAGCCCTGTCTACTTGGGCA
CCCCACCACCTGTTAGCTGTGGTGTGCACTGTCTTTGTAGCTCTGGACTGGAGGGGT
AGATGGGAGTCAATTACCCATCACATAAATATGAAACATTTATCAGAAATGTTGCCATT
TTAATGAGATGATTTTCTTCTCATAATTAATAACCTGACTTTAGAGAGAGTAAAAAT
GTGCCAGGAGCCATAGGAATATCTGTATGTTGGATGACTTTAATGCTACATTTTAAAAAA
AGAAAAATAAGTAATAATAACTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAA
    
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Restriction Sites:

Please inquire

ACCN:

NM_004281

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_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]