

Product datasheet for **RG202860**

BAG3 (NM_004281) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BAG3 (NM_004281) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BAG3
Synonyms:	BAG-3; BIS; CAIR-1; MFM6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG202860 representing NM_004281
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGCGCCGCCACCCACTCGCCATGATGACAGGTGGCGTCCGGCAACGGTGACCAGCCTTTGCCCC
 CCGGATGGGAGATCAAGATCGACCCGACACCGGCTGGCCCTTCTTCGTGGACCACAACAGCCGACCCAC
 TACGTGGAACGACCCGCGCGTGCCTCTGAGGGCCCCAAGGAGACTCCATCCTCTGCCAATGGCCCTTCC
 CGGGAGGGCTCTAGGCTGCCGCTGCTAGGGAAGGCCACCTGTGTACCCCCAGCTCCGACCAGGCTACA
 TTCCCATCTGTGCTCCATGAAGGCGCTGAGAACCGGCAGGTGCACCCCTTCCATGTCTATCCCCAGCC
 TGGGATGCAGCGATTCCGAAGTGAAGGCGCAGCAGCGGCTCCTCAGAGTCCCAGTACCTCTGCGGGGC
 ATGCCAGAAACCACTCAGCCAGATAAACAGTGTGGACAGGTGGCAGCGGGCGGCAGCCAGCCCCAG
 CCTCCACGGACCTGAGCGGTCCAGTCTCCAGTGCCTCTGACTGCTCATCCTCATCCTCTCGGCCAG
 CCTGCCTTCTCCGGCAGGAGCAGCCTGGGCAGTACCAGTCCCAGCGGGGTACATCTCCATTCCGGTG
 ATACACGAGCAGAACGTTACCCGGCCAGCAGCCAGCCCTCCTTCCACCAAGCCAGAAGACGCACTACC
 CAGCGCAGCAGGGGGAGTACCAGACCCACCAGCCTGTGTACCACAAGATCCAGGGGGATGACTGGGAGCC
 CCGGCCCTGCGGGCGGCATCCCGTTCAGGTCATCTGTCCAGGGTGCATCGAGCCGGGAGGGCTACCA
 GCCAGGAGCAGCAGCCACTCCACTCCCCCTCGCCCATCCGTGTGCACACCGTGGTGCACAGGCCTCAGC
 AGCCCATGACCCATCGAGAACTGCACCTGTTTCCAGCCTGAAAACAAACCAGAAAGTAAGCCAGGCC
 AGTTGGACCAGAACTCCCTCTGGACACATCCCAATCAAGTGATCCGCAAGAGGTGGATTCTAAACCT
 GTTCCAGAAAGCCCCACCTCCCTCTGAGAAGGTAGAGGTGAAAGTCCCCCTGCTCCAGTTCCTTGTG
 CTCTCCAGCCCTGGCCCTTCTGTGCTCCCTTCCCCAAGAGTGTGGCTACAGAAGAGGGCAGC
 CCCAGCACTGCCCTGCAGAAGCTACACCTCCAAAACCAAGGAGAGCCGAGGCTCCCCAAAACATCCA
 GGAGTGTGAAAGTGAAAGCCATCCTGGAGAAGGTACAGGGGCTGGAGCAGGCTGTAGACAACCTTGAAG
 GCAAGAAGACTGACAAAAAGTACCTGATGATCGAAGAGTATTTGACCAAAGAGCTGCTGGCCCTGGATT
 AGTGGACCCCGAGGGACGAGCCGATGTGCGTCAGGCCAGGAGAGACGGTGTGAGGAAGGTTGAGACCAT
 TTGAAAAAAGTGAACAGAAAGCCATTGATGTCCAGGTCAAGTCCAGGCTATGAACTCCAGCCAGCA
 ACCTTGAAGCAGATCAGCCACTGCAGGCAATCATGGAGATGGGTGCCGTGGCAGCAGACAAGGGCAAGAA
 AAATGCTGAAAATGCAGAAGATCCACACAGAAACCCAGCAGCCAGAAGCCACAGCAGCAGCGACTTCA
 AACCCAGCAGCATGACAGACACCCTGGTAACCCAGCAGCACCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG202860 representing NM_004281
 Red=Cloning site Green=Tags(s)

MSAATHSPMMQVASGNGDRDPLPPGWEIKIDPQTGWPFVVDHNSRTTWNDRVPSSEPKETPSSANGPS
 REGSRLPPAREGHPVYQRLRPGYIPIVLEHGAENRQVHPFHVYPPQPMQRFRTEAAAAAPQRSQSPLRG
 MPETTQPKQCGQVAAAAAQPASHGPERSPASDCSSSSSSASLPSGRSSLGSHQLPRGYISIPV
 IHEQNVTRPAAQPSFHQAQKTHYPAQQGEYQTHQPVYHKIQGDDWEPRPLRAASPFSSVQGASSREGSP
 ARSSTPLHSPSPIRVHTVDRPQQPMTTHRETAPVSQPNKPEKPGVGPPELPPGHIPIQVIRKEVDSKP
 VSQKPPPPSEKVEVKVPPAPVPCPPSPGPSAVPSSPKSVATEERAAPSTAPAEATPPKPGAEAPPKHP
 GVLKVEAILEKVQGLEQAVDNFEGKKTDKKYLMIIEYLTKELLALDSVDPEGRADVRRQARRDGVKRVQTI
 LEKLEQKAIDVPGQVQVYELQPSNLEADQPLQAIMEMGAVAADKGGKNAGNAEDPHETETQQPEATAAATS
 NPSSMTDTPGNPAAP

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_004281

ORF Size: 1725 bp

OTI Disclaimer: 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_004281.4](#)

RefSeq Size: 2608 bp

RefSeq ORF: 1728 bp

Locus ID: 9531

UniProt ID: [O95817](#)

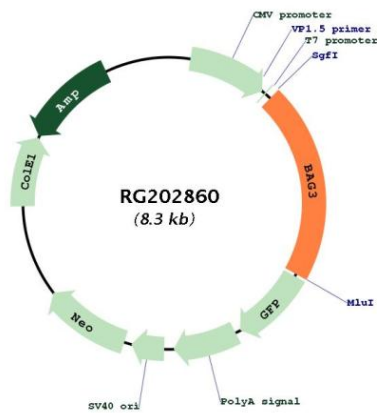
Cytogenetics: 10q26.11

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]

Product images:



Circular map for RG202860