

Product datasheet for **MR226055**

Bag3 (NM_013863) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR226055 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGCGCCGCCACCAATCGCCATGATGCAGATGGCGTCCGGCAACGGAGCCAGCGACCGAGACCCCC
 TGCCCCGGGCTGGGAGATCAAAATCGACCCGAGACCGGCTGGCCCTTCTTCGTGGACCAACAGCCG
 CACCACGACGTGGAACGACCCGCGTGTGCCCCCGAGGGCCCTAAGGACACTGCATCTTCAGCAACGGC
 CCTTCCGCAATGGCTCCCGCTGCTGCCATTAGGGAAGGCCACCCCATATACCCCGAGCTCCGACCAG
 GCTACATTTCCATCCCGCTCTCCATGAAGGCTCCGAGAACCAGCCAGCCACCTTTTCCATGCCTACTC
 CCAGCCTGGGGTGCAGCGATTTCTGACCGAGGCTGCAGCGCCACTCCGAGAGGTCAGTCTCCTTTA
 CGTGGCGGCATGACAGAAGCCGCCAGACAGATAAACAGTGTGGACAGATGCCGCAACTGCAACAACG
 CAGCAGCTCAGCCCCAACTGCTCATGGACCTGAGCGATCTCAGTCTCCAGCTGCCTCTGACTGCTCATC
 CTCTTCTCCTCGCCAGCCTGCCCTCCTCCGGCAGGAGCAGTCTGGGTAGCCATCAGCTCCCCAGGGGC
 TACATCCCATCCCGTGATACATGAGCAGAATATCACCCGGCCAGCAGCCAGCCCTCCTTCCACCAAG
 CCCAGAAGACCCACTACCCAGCTCAGCAGGGTGAATACCAGCCCCAGCAGCCTGTATACCACAAGATCCA
 GGGCGATGACTGGGAGCCCCGGCGCTTCGAGCCGCTTCTCCATTAGGTACCCCGTCAGAGGTGCTTCC
 AGCCGGGAAGGCTCGCCCGCCAGAAGCGGCACACCGGTTCACTGCCCATCTCCATCCGTGTGCACACAG
 TGGTTGACAGGCCTCAGCCATGACCCATCGAGAGCCTCCACCTGTTACCCAACCCGAAAACAAACCAGA
 AAGTAAGCCAGGCCAGCCGACACACCTCCCTCCTGGACACATCCCATCCAAGTGATCCGAAGGGAG
 GCAGACTAAGCCTGTTTCCAGAAGTCACTCCTCCTGCTGAAAAGGTAGAAGTAAAGGTCTCCTCTG
 TCCAATTCTTGTCTTCTCCAGCCCGCTCCTTCGGCTGTCCCTTCTCCCCCAAGAATGTGGCTGC
 AGAACAGAAGGCCGCCCCAGCCCTGCCCTGCAGAACCCTGCAGCCCCAAATCGGGAGAAGCCGAAACA
 CCCCCTAAGCATCCAGGTGTGCTGAAAAGTGAAGCCATCCTGGAGAAGGTACAAGGGCTGGAGCAGGCTG
 TAGACAGCTTTGAAGGCAAGAAGACTGATAAAAAATACCTGATGATCGAAGAGTATTTGACCAAAGAGCT
 GCTGGCCCTGGATTCCGTAGACCCTGAAGGACGAGCTGATGTGCGGCAGGCCAGGAGAGATGGCGTCAGG
 AAGTTTACAGCATCTTGGAAAACTTGAAGCAGAAAGCAATTGATGTCCAGGTCAAGTACAAGTCTATG
 AACTCCAGCCAGCAACCTTGAAGCCGAGCAGCCACTCCAGGAAATCATGGGTGCCGTGGTAGCCGACAA
 GGATAAGAAAGGTCTGAAAACAAAGATCCACAACTGAAAGCCAAACAGCTAGAAGCCAAAGCAGCCAGC
 CCTCCAAATCCAGCAACCCAGCAGACTCAGCTGGCAACCTGGTGGCTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226055 protein sequence
 Red=Cloning site Green=Tags(s)

MSAATQSPMMQMASNGASDRDPLPPGWEIKIDPQTGWPFVVDHNSRTTWNDRVPPEGPKDTASSANG
 PSRNGSRLLPIREGHPIYQLRPGYIPIVPLHEGSENRPFLFHAYSQPGVQRFRTAAAAATPQRSQSPL
 RGMTEAAQTDKQCGQMPATATTTAAQPPAHGPERSQSPAASDCSSSSSSASLPSSGRSSLGSHQLPRG
 YIPIPIVHEQNI TRPAAQPSFHQAQKTHYPAQQGEYQPQQPVYHKIQGDDWEPRPLRAASPFVSPVRGAS
 SREGSPARSGTPVHCPSPIRVHTVVDROPMTTHREPPVTPQENKPEKPGPAGPDLPPGHIPIQVIRRE
 ADSKPVSKSPPPAEKVEVKVSSAPIPCPSPPSPAPSAVSPPPKNVAAEQKAAPSPAPAEPAPKSGEAE
 PPKHPGVLKVEAILEKVQGLEQAVDSFEGKTDKLYLMIEEYLTKELLALDSVDPEGRADVRRARRDQV
 KVQTILEKLEQKAIDVPGVQVYELQPSNLEAEQPLQEIMGAVVADKDKKGPENKDPQTESQQLEAKAAT
 PPNPSNPADSAGNLVAP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

ACCN: NM_013863

ORF Size: 1734 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.

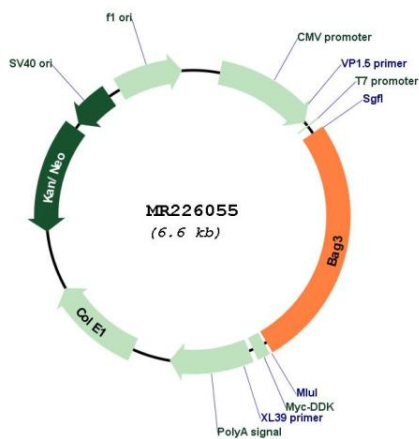
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_013863.1](#), [NM_013863.2](#), [NM_013863.3](#), [NM_013863.4](#), [NM_013863.5](#), [NP_038891.4](#)
RefSeq Size: 2607 bp
RefSeq ORF: 1734 bp
Locus ID: 29810
UniProt ID: [Q9JLV1](#)
Cytogenetics: 7 F3
MW: 61.9 kDa

Gene Summary: 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]

Product images:



Circular map for MR226055