

Product datasheet for SC117069

BAG5 (NM_004873) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BAG5 (NM_004873) Human Untagged Clone
Tag:	Tag Free
Symbol:	BAG5
Synonyms:	BAG-5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117069 sequence for NM_004873 edited (data generated by NextGen Sequencing)

ATGGATATGGGAAACCAACATCCTTCTATTAGTAGGCTTCAGGAAATCCAAAAGGAAGTA
AAAAGTGTAGAACAGCAAGTTATCGGCTTCAGTGGTCTGTGAGATGACAAGAATTACAAG
AAACTGGAGAGGATTCTAACAAACAGCTTTTTGAAATAGACTCTGTAGATACTGAAGGA
AAAGGAGATATTCAGCAAGCTAGGAAGCGGCAGCACAGGAGACAGAACGCTTTCTCAA
GAGTTGGAGCAGAATGCAAACCCACACCGGATTGAAATACAGAACATTTTTGAGGAA
GCCCAGTCCCTCGTGAGAGAGAAAATTGTGCCATTTTATAATGGAGGCAACTGCGTAACT
GATGAGTTTGAAGAAGGCATCCAAGATATCATTCTGAGGCTGACACATGTTAAACTGGA
GGAAAAATCTCCTTGCAGAAAGCAAGGTATCACACTTTAACCAAAATCTGTGCGGTGCAA
GAGATAATCGAAGACTGCATGAAAAAGCAGCCTTCCCTGCCGCTTCCGAGGATGCACAT
CCTTCCGTTGCCAAAATCAACTTCGTGATGTGTGAGGTGAACAAGGCCGAGGGGTCTG
ATTGCACTTCTGATGGGTGTGAACAACAATGAGACCTGCAGGCACTTATCCTGTGTGCTC
TCGGGGGTGATCGCTGACCTGGATGCTCTAGATGTGTGCGGCCGGACAGAAATCAGAAAT
TATCGGAGGGAGGTAGTAGAAGATATCAACAAATTATTGAAATATCTGGATTTGGAAGAG
GAAGCAGACACAATAAGCATTGACCTGAGACAGAATCATTCCATTTTAAAAATAGAA
AAGGTCTCAAGAGAATGAGAGAAATAAAAAATGAAGTCTTCAAGCAGCAAAACCTTCT
GAATTGTACCTGAGCTCCAAAACAGAATTGCAGGGTTTAAATTGGACAGTTGGATGAGGTA
AGTCTTGAAAAAACCCCTGCATCCGGGAAGCCAGGAGAAGAGCAGTGATCGAGGTGCAA
ACTCTGATCACATATATTGACTTGAAGGAGGCCCTTGAGAAAAGAAAGCTGTTTGCTTGT
GAGGAGCACCCATCCCATAAAGCCGTCTGGAACGTCCTTGGAACCTTGTCTGAGATCCAG
GGAGAAGTTCTTTTATTTGATGGAATCGAACCGATAAGAACTACATCCGGCTGGAAGAG
CTGCTACCAAGCAGCTGCTAGCCCTGGATGCTGTTGATCCGCAGGGAGAAGAGAAGTGT
AAGGCTGCCAGGAACAAGCTGTGAGGCTTGCAGCAGAATATTCTCAGCTATCTCGACCTG
AAATCTGATGAATGGGAGTACTGA

Clone variation with respect to NM_004873.3



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004873 unedited
 TAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCGCGCATGGCGCGGGCG
 GGACAGTGCTTGTGAACTGAACACAACAAAGTATGGATATGGGAAACCAATCCTTC
 TATTAGTAGGCTTCAGGAAATCCAAAGGAAGTAAAAAGTGTAGAACAGCAAGTTATCGG
 CTTCAGTGGTCTGTCAGATGACAAGAATTACAAGAACTGGAGAGGATTCTAACAAAACA
 GCTTTTGAATAGACTCTGTAGATACTGAAGGAAAAGGAGATATTCAGCAAGCTAGGAA
 GCGGGCAGCACAGGAGACAGAACGTCTTCTCAAAGAGTTGGAGCAGAATGCAACCACCC
 ACACCGGATTGAAATACAGAACATTTTGGAGGAAGCCAGTCCCTCGTGAGAGAGAAAAT
 TGTGCCATTTTATAATGGAGGCAACTGCGTAAGTATGAGTTTGAAGAAGGCATCCAAGA
 TATCATTCTGAGGCTGACACATGTTAAACTGGAGGAAAATCTCCTTGGGAAAGCAAG
 GTATCACACTTTAACCAAAATCTGTGCGGTGCAAGAGATAATCGAAGACTGCATGAAAAA
 GCAGCCTTCCCTGCCGCTTCCGAGGATGCANCATCCTCCGTTGCCAAAATCAACTTCG
 TGATGTGTGAGGTGAACAAGGCCGAGGNGTCTGATTGCACTTCTGATGGGTGTGAACA
 CAATGAGACCTGCANGCACTTATNCTGTGTGCTCTCGGGGCTGATCGCTGACCTGGATGC
 TCTANNATGTGTGCGGNCGGACCAGAATCAGAAATATCGGAGGAGTAGTAGAAGATA
 TCAACAATATTGAATATCTGGATTGAAGAGGAGCAGACCCTAAGCTTTTACTGAGAA
 GNATCATTCCATTTAAATGNAAAGGTCTCAGAGATGAAGAATANAATGACTTTTCA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004873 unedited
 GGGAGGAGGGGAAANAAGNAAANTAANNNNCNGGNTTTTGTNCCATGCGACGTAGTANA
 TGGTTTTATTTCAANAATAACTAAGGGTATTTAACACATGTATCTCAAAGTAACATTGA
 ATTATTGAAGACATACTGTTCCAATACTCAAACAGTTCACAGAGAGGGGACAGGAACCAA
 TGTACTGGAACACACTTGTATTATGTAAAAATCGATGGCCAATTTTCTCTTATT
 AAGAGAAAAATACCAACAAATTAAGGTGAAAGCTGTGCTCAAAAAAATAAAAA
 AACCAAAACCTTGCATGCACAAGCTAAGCTCAGACCCTTAAAAACAGATAGAAATTGA
 CAAAGTCAAACAAAGGAGAAAACTAGCTGAAGTCTCAAATAAATTATATCAAATATA
 TGTGCATTTTAGCAAAATAAACCACTAACTATACTTTGTAGACATATTCATTACATTTA
 TTTTAATAACTACTTCATTATAGGCTGACTGGCTTCTGTGTGGATAAAGTGTGATCTG
 AAAGCAACGCTGACTGAATGTAAATAAGCAACGTTCCAGCCATTTTGGCATGAACA
 TGGACTACAGCGTTTAATGCAGACCCAAAGCCACACATTTTGGGAGTAGGTTTACTT
 GCAGTACAGATTCTTTTATTACAGATCAGAAAAATACAATACAATGTGACAAGCCAGT
 TTAAGAATTACATGCAGTAGCTCATATTAACACAAACAGTCCCAAGGAGCCGCAAG
 AGCTAAATCCNGTTGTCAACAGGGTTCATTGCATGAGTAGAATTATCCGTTCCATGAAC
 TAGAACAGATTGTAACCAGAACAAACCTTGCCCTGACAGTCAATTCAGGGTCAATCTG
 ATCATTTCCTTGACCAACTACTCATGTGAACAATTT

Restriction Sites:

ECorI-NOT

ACCN:

NM_004873

Insert Size:

5000 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_004873.2](#), [NP_004864.1](#)

RefSeq Size: 4847 bp

RefSeq ORF: 1344 bp

Locus ID: 9529

UniProt ID: [Q9UL15](#)

Cytogenetics: 14q32.33

Domains: BAG

Protein Families: Druggable Genome

Gene Summary: The protein encoded by this gene is a member of the BAG1-related protein family. BAG1 is an anti-apoptotic protein that functions through interactions with a variety of cell apoptosis and growth related proteins including BCL-2, Raf-protein kinase, steroid hormone receptors, growth factor receptors and members of the heat shock protein 70 kDa family. This protein contains a BAG domain near the C-terminus, which could bind and inhibit the chaperone activity of Hsc70/Hsp70. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) differs in the 5' UTR and coding region compared to variant 1. The resulting isoform (b) is shorter at the N-terminus compared to isoform a. Variants 2 and 3 both encode the same isoform (b). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.