

## Product datasheet for **RC208518**

### **BAG5 (NM\_004873) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	BAG5 (NM_004873) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BAG5
Synonyms:	BAG-5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC208518 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGATATGGAAACCAACATCCTTCTATTAGTAGGCTTCAGGAAATCCAAAAGGAAGTAAAAAGTGTAG  
 AACAGCAAGTTATCGGCTTCAGTGGTCTGTGAGATGACAAGAATTACAAGAACTGGAGAGGATTCTAAC  
 AAAACAGCTTTTTGAAATAGACTCTGTAGATACTGAAGGAAAAGGAGATTTAGCAAGCTAGGAAGCGG  
 GCAGCACAGGAGACAGAACGCTTCTCAAAGAGTTGGAGCAGAATGCAAACCACCCACACCGGATTGAAA  
 TACAGAACATTTTTGAGGAAGCCAGTCCCTCGTGAGAGAGAAAATTGTGCCATTTATAATGGAGGCAA  
 CTGCGTAACTGATGAGTTTGAAGAAGGCATCCAAGATATCATTCTGAGGCTGACACATGTTAAAAGTGA  
 GAAAAATCTCCTTGGGAAAGCAAGGTATCACACTTAAACAAAATCTGGGCGGTGCAAGAGATAATCG  
 AAGACTGCATGAAAAGCAGCCTTCCCTGCCGCTTCCGAGGATGCACATCCTTCCGTTGCCAAAATCAA  
 CTTCTGATGTGTGAGGTGAACAAGGCCGAGGGTCTGATTGCACTTCTGATGGTGTGAACAACAAT  
 GAGACCTGCAGGCACTTATCCTGTGTGCTCTCGGGCTGATCGCTGACCTGGATGCTCTAGATGTGTGCG  
 GCCGGACAGAAATCAGAAATTATCGGAGGGAGGTAGTAGAAGATATCAACAAATTATTGAAATATCTGGA  
 TTTGGAAGAGGAAGCAGACACAATAAGCATTGACCTGAGACAGAATCATTCCATTTAAAAATAGAA  
 AAGGTCCTCAAGAGAATGAGAGAAATAAAAAATGAACTTCTCAAAGCAGAAAACCCCTTCTGAATTGTACC  
 TGAGCTCCAAAACAGAATTGCAGGGTTAATTGGACAGTTGGATGAGGTAAGTCTTGAAAAAACCCCTG  
 CATCCGGGAAGCCAGGAGAAGAGCAGTATCGAGGTGCAAACCTGATACATATATTGACTTGAAGGAG  
 GCCCTTGAGAAAAGAAAGCTGTTTCTGTTGAGGAGCACCCATCCATAAAGCCGCTGGAACGCTCTTG  
 GAACTTGTCTGAGATCCAGGGAGAAGTCTTTTCATTTGATGGAATCGAACCATAAGAAGTACATCCG  
 GCTGGAAGAGCTGCTACCAAGCAGCTGCTAGCCCTGGATGCTGTTGATCCGCAGGGAGAAGAGAAGTGT  
 AAGGCTGCCAGGAAACAAGCTGTGAGGCTTGCAGAGAATATTCTCAGCTATCTCGACCTGAAATCTGATG  
 AATGGGAGTAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC208518 protein sequence  
 Red=Cloning site Green=Tags(s)

MDMGNQHPSISRLQEIQKEVKSVEQQVIGFSGLSDDKNYKLERILTKQLFEIDSVDTEGKGDIIQARKR  
 AAQETERLLKELEQNANHPHRIEQNIFEEAQLVREKIVPFYNGGNCVTDEFEEGIQDIILRLTHVKTG  
 GKISLRKARYHTLTKIWAVQEIIEDCMKKQPSLPLSEDAHPSVAKINFMCEVKNKARGVLIALLMGVNNN  
 ETCRHLSCVLSGLIADLDALDVCGRTEIRNYRREVVEDINKLLKYLDLEEEADTTKAFDLRQNHSLKIE  
 KVLKRMREIKNELLQAQNPSELYLSSKTELQGLIGQLDEVSLKNPCIREARRRAVIEVQTLITYIDLKE  
 ALEKRLFACEEHPSHKAVWNVLGNLSEIQGEVLSFDGNRTDKNYIRLEELLTKQLLALDAVDPQGEK  
 KAARKQAVRLAQNILSYLDLKSDEWEY

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6091\\_f02.zip](https://cdn.origene.com/chromatograms/mk6091_f02.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_004873

**ORF Size:** 1341 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\\_004873.4](#)

**RefSeq Size:** 4886 bp

**RefSeq ORF:** 1344 bp

**Locus ID:** 9529

UniProt ID: [Q9UL15](#)

Cytogenetics: 14q32.33

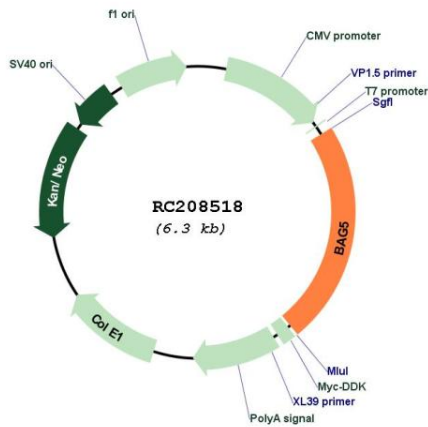
Domains: BAG

Protein Families: Druggable Genome

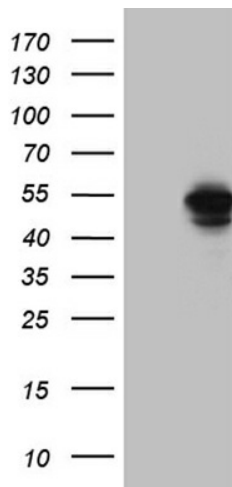
MW: 51.3 kDa

**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]

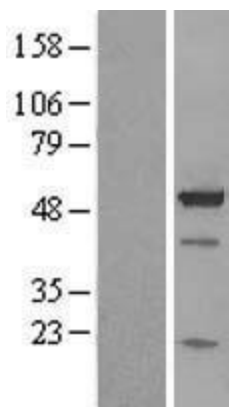
**Product images:**



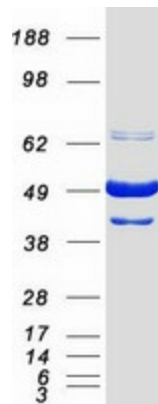
Circular map for RC208518



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY BAG5 (Cat# RC208518, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-BAG5 (Cat# [TA810639])(1:2000). Positive lysates [LY417691] (100ug) and [LC417691] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY423114]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC212765] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified BAG5 protein (Cat# [TP308518]). The protein was produced from HEK293T cells transfected with BAG5 cDNA clone (Cat# RC208518) using MegaTran 2.0 (Cat# [TT210002]).