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Product datasheet for RC206235

Silencer of Death Domain (BAG4) (NM_004874) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Silencer of Death Domain (BAG4) (NM_004874) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Silencer of Death Domain
Synonyms:	BAG-4; SODD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC206235 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCGGCCCTGAGGCGCTCGGGCTACGGCCCCAGTGACGGTCCGTCCTACGGCCGCTACTACGGGCCTG
GGGGTGGAGATGTGCCGGTACACCCACCTCCACCCTTATATCCTCTTCGCCCTGAACCTCCCCAGCCTCC
CATTTCCTGGCGGGTGCGCGGGGGCGGCCCGGCGGAGACCACCTGGCTGGGAGAAGGCGGAGGAGGCGAT
GGCTACTATCCCTCGGGAGGCGCCTGGCCAGAGCCTGGTCGAGCCGGAGGAAGCCACCAGGAGCAGCCAC
CATATCCTAGCTACAATTCTAACTATTGGAATTCTACTGCGAGATCTAGGGCTCCTTACCCAAGTACATA
TCCTGTAAGACCAGAATTGCAAGGCCAGAGTTTGAATTCTTATACAAATGGAGCGTATGGTCCAACATAC
CCCCCAGGCCCTGGGGCAAATACTGCCTCATACTCAGGGGCTTATTATGCACCTGGTTATACTCAGACCA
GTTACTCCACAGAAGTTCCGAGTACTTACCGTTCATCTGGCAACAGCCCAACTCCAGTCTCTCGTTGGAT
CTATCCCCAGCAGGACTGTCAGACTGAAGCACCCCCTCTTAGGGGGCAGGTTCCAGGATATCCGCCTTCA
CAGAACCCTGGAATGACCCTGCCCCATTATCCTTATGGAGATGGTAATCGTAGTGTTCCACAATCAGGAC
CGACTGTACGACCACAAGAAGATGCGTGGGCTTCTCCTGGTGCTTATGGAATGGGTGGCCGTTATCCCTG
GCCTTCATCAGCGCCCTCAGCACCACCCGGCAATCTCTACATGACTGAAAGTACTTCACCATGGCCTAGC
AGTGGCTCTCCCCAGTCACCCCCTTCACCCCCAGTCCAGCAGCCCAAGGATTCTTCATACCCCTATAGCC
AATCAGATCAAAGCATGAACCGGCACAACTTTCCTTGCAGTGTCCATCAGTACGAATCCTCGGGGACAGT
GAACAATGATGATTCAGATCTTTTGGATTCCCAAGTCCAGTATAGTGCTGAGCCTCAGCTGTATGGTAAT
GCCACCAGTGACCATCCCAACAATCAAGATCAAAGTAGCAGTCTTCCTGAAGAATGTGTACCTTCAGATG
AAAGTACTCCTCCGAGTATTAAAAAAATCATACATGTGCTGGAGAAGGTCCAGTATCTTGAACAAGAAGT
AGAAGAATTTGTAGGAAAAAAGACAGACAAAGCATACTGGCTTCTGGAAGAAATGCTAACCAAGGAACTT
TTGGAACTGGATTCAGTTGAAACTGGGGGCCAGGACTCTGTACGGCAGGCCAGAAAAGAGGCTGTTTGTA
AGATTCAGGCCATACTGGAAAAATTAGAAAAAAAAGGATTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC206235 protein sequence
Red=Cloning site Green=Tags(s)

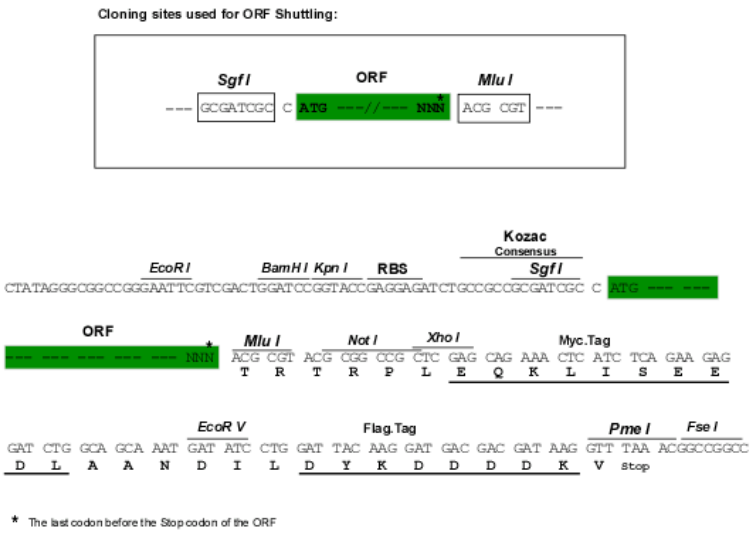
MSALRRSGYGPSDGPSYGRYYGPGGGDVPVHPPPPLYPLRPEPPQPPISWRVRGGGPAETTWLGEGGGGD
GYYPSGGAWPEPGRAGGSHQEQPPYPSYNSNYWNSTARSRAPYPSTYPVRPELQGQSLNSYTNGAYGPTY
PPGPGANTASYSGAYYAPGYTQTSYSTEVPSTYRSSGNSPTPVSRWIYPQQDCQTEAPPLRGQVPGYPPS
QNPGMTLPHYPYGDGNRSVPQSGPTVRPQEDAWASPGAYGMGGRYPWPSSAPSAPPGNLYMTESTSPWPS
SGSPQSPPSPPVQQPKDSSYPYSQSDQSMNRHNFPCSVHQYESSGTVNNDDSDLLDSQVQYSAEPQLYGN
ATSDHPNNQDQSSSLPEECVPSDESTPPSIKKIIHVLEKVQYLEQEVEEFVGKKTDKAYWLLEEMLTKEL
LELDSVETGGQDSVRQARKEAVCKIQAILEKLEKKGL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6270_g12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004874

ORF Size: 1371 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_004874.4

RefSeq Size: 4478 bp

RefSeq ORF: 1374 bp

Locus ID: 9530

UniProt ID: O95429

Cytogenetics: 8p11.23

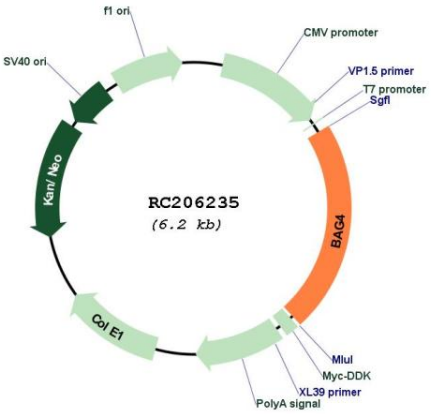
Domains: BAG

Protein Families: Druggable Genome

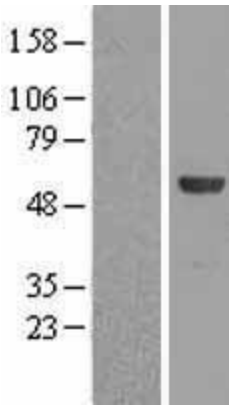
MW: 49.6 kDa

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. This protein was found to be associated with the death domain of tumor necrosis factor receptor type 1 (TNF-R1) and death receptor-3 (DR3), and thereby negatively regulates downstream cell death signaling. The regulatory role of this protein in cell death was demonstrated in epithelial cells which undergo apoptosis while integrin mediated matrix contacts are lost. Alternatively spliced transcript variants encoding distinct isoforms have been identified. [provided by RefSeq, Mar 2011]

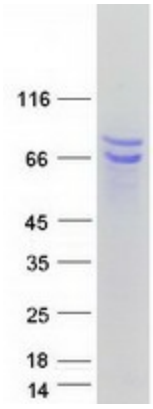
Product images:



Circular map for RC206235



Western blot validation of overexpression lysate (Cat# [LY417692]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206235 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified BAG4 protein (Cat# [TP306235]). The protein was produced from HEK293T cells transfected with BAG4 cDNA clone (Cat# RC206235) using MegaTran 2.0 (Cat# [TT210002]).