

Product datasheet for **RG206235**

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:	TurboGFP
Symbol:	Silencer of Death Domain
Synonyms:	BAG-4; SODD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG206235 representing NM_004874
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCGGCCCTGAGGCGCTCGGGCTACGGCCCCAGTGACGGTCCGTCCTACGGCCGCTACTACGGGCTG
 GGGGTGGAGATGTCCGGTACACCCACCTCCACCTTATATCCTCTTCGCCCTGAACCTCCCCAGCCTCC
 CATTTCCTGGCGGGTGC CGGGGGCGGCCCGGGGAGACCACCTGGCTGGGAGAAGCGGAGGAGGCGAT
 GGCTACTATCCCTCGGGAGGCGCTGGCCAGAGCCTGGTCGAGCCGAGGAAGCCACCAGGAGCAGCCAC
 CATATCCTAGCTACAATTCTAACTATTGGAATTCTACTGCGAGATCTAGGGCTCCTTACCCAAGTACATA
 TCCTGTAAGACCAGAATTGCAAGGCCAGAGTTGAATTCTTATACAAATGGAGCGTATGGTCCAACATAC
 CCCCCAGGCCCTGGGGCAAATACTGCCTCATACTAGGGGCTTATTATGCACCTGGTTATACTCAGACCA
 GTTACTCCACAGAAGTTCCAAGTACTTACCGTTTACTGGAACAGCCCAACTCCAGTCTCTCGTTGGAT
 CTATCCCAGCAGGACTGTCAGACTGAAGCACCCCTCTTAGGGGCGAGTTCCAGGATATCCGCCCTTCA
 CAGAACCCTGGAATGACCTGCCCATTCCTTATGGAGATGGTAATCGTAGTGTCCACAATCAGGAC
 CGACTGTACGACCACAAGAAGATGCGTGGGCTTCTCTGGTGCTTATGGAATGGGTGGCCGTTATCCCTG
 GCCTTCATCAGCGCCCTCAGCACCCCGGCAATCTCTACATGACTGAAAGTACTTCACCATGGCCTAGC
 AGTGGCTCTCCCCAGTACCCCCCTTACCCCCAGTCCAGCAGCCCAAGGATTCTTCATACCCCTATAGCC
 AATCAGATCAAAGCATGAACCGGCACAACCTTCTTGCAGTGTCCATCAGTACGAATCCTCGGGGACAGT
 GAACAATGATGATTGAGTCTTTTGGATTCCCAAGTCCAGTATAGTGTGAGCCTCAGCTGTATGGTAAT
 GCCACCAGTACCATCCCAACAATCAAGATCAAAGTAGCAGTCTTCTGAAGAATGTGTACCTTCAGATG
 AAAGTACTCCTCCGAGTATTAATAAATCATACTGTGCTGGAGAAGTCCAGTATCTTGAACAAGAAGT
 AGAAGAATTTGTAGGAAAAAGACAGACAAAGCATACTGGCTTCTGGAAGAAATGCTAACCAAGGAAGT
 TTGGAAGTGGATTGAACTGGGGCCAGGACTCTGTACGGCAGGCCAGAAAAAGAGGCTGTTTGT
 AGATTCAGGCCATACTGGAAAAATTAGAAAAAAGGATTA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG206235 representing NM_004874
 Red=Cloning site Green=Tags(s)

MSALRRSGYGPSDGPSTYGRYYGPGGGDVPVHPPPLYPLRPEPPQPPISWRVRGGGPAETTWLGEAGGGD
 GYYPSGGAWPEPGRAGGSHQEPPYPSYNSNYWNSTARSRAPYPTSTYVPRPELQGGSLNSYTNAYGPTY
 PPGPGANTASYSGAYYAPGYTQTSYSTEVPSTYRSSGNSPTVSRWIYPQQDQTEAPPLRGQVPGYPPS
 QNPGMTLPHYPYDGNRSVPQSGPTVRPQEDAWASPGAYGMGGRYWPSSAPSAPPGNLYMTESTSPWPS
 SGSPQSPSPPPVQPKDSSYPYSQSDQSMNRHNFPCSVHQYESSGTVNNDSDLSDSQVQYSAEPQLYGN
 ATSDHPNNQDQSSSLPEECVPSDESTPPSIKKI.IHVLEKQYLEQEEVEEFVGKTKDKAYWLLLEMLTKEL
 LELDSVETGGQDSVRQARKEAVCKIQAILEKLEKGL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-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: 2182 bp

RefSeq ORF: 1374 bp

Locus ID: 9530

UniProt ID: [O95429](#)

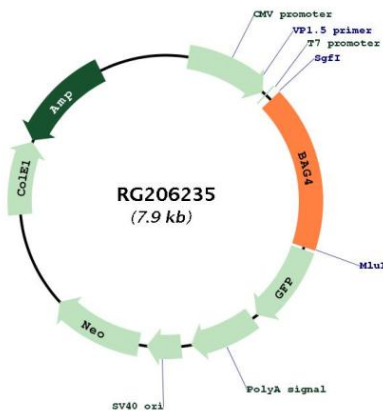
Cytogenetics: 8p11.23

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. 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 RG206235