

Product datasheet for **RG234048**

Silencer of Death Domain (BAG4) (NM_001204878) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Silencer of Death Domain (BAG4) (NM_001204878) 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)
ORF Nucleotide Sequence:	>RG234048 representing NM_001204878 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGC**C

ATGTCGGCCCTGAGGCGCTCGGGCTACGGCCCCAGTGACGGTCCGTCCTACGGCCGCTACTACGGGCCTG
GGGGTGGAGATGTGCCGGTACACCCACCTCCACCCTTATATCCTCTTCGCCCTGAACCTCCCAGCCTCC
CATTTCTGGCGGGTGC GCGGGGCGGCCGCGGAGACCACCTGGCTGGGAGAAGGCGGAGGAGCGAT
GGCTACTATCCCTCGGGAGGCGCCTGGCCAGAGCCTGGTCGAGCCGAGGAAGCCACCAGAGTTTGAATT
CTTATACAAATGGAGCGTATGGTCCAACATACCCCCAGGCCCTGGGGCAAATACTGCCTCATACTCAGG
GGCTTATTATGCACCTGGTTATACTCAGACCAGTTACTCCACAGAAGTTCCAAGTACTTACCGTTTATCT
GGCAACAGCCCAACTCCAGTCTCTCGTTGGATCTATCCCCAGCAGGACTGTGAGACTGAAGCACCCCTC
TTAGGGGGCAGGTTCCAGGATATCCGCCTTCACAGAACCTGGAATGACCCTGCCCATTTATCCTTATGG
AGATGGTAATCGTAGTGTCCACAATCAGGACCGACTGTACGACCACAAGAAGATGCGTGGGCTTCTCCT
GGTGCTTATGGAATGGGTGGCGTTATCCCTGGCCTTCATCAGCGCCCTCAGCACCACCCGGCAATCTCT
ACATGACTGAAAGTACTTCACCATGGCCTAGCAGTGGCTCTCCCCAGTCACCCCTTCACCCCACTGCA
GCAGCCCAAGGATTCTTCATACCCCTATAGCCAATCAGATCAAAGCATGAACCGGCACAACCTTCTCTGC
AGTGTCATCAGTACGAATCCTCGGGACAGTGAACAATGATGATTGAGATCTTTTGGATTCCCAAGTCC
AGTATAGTGCTGAGCCTCAGCTGTATGGTAATGCCACCAGTGACCATCCCAACAATCAAGATCAAAGTAG
CAGTCTTCTGAGAATGTGTACCTTCAGATGAAAGTACTCCTCCGAGTATTAATAAATCATACATGTG
CTGGAGAAGGTCCAGTATCTTGAACAAGAAGTAGAAGAATTTGTAGGAAAAAGACAGACAAAGCATACT
GGCTTCTGGAAGAAATGCTAACCAAGGAACCTTTTGGAACTGGATTGAGTGAAGTGGGGCCAGGACTC
TGACGGCAGGCCAGAAAAGAGGCTGTTTGTAAAGATTCAGGCCATACTGGAAAAATTAGAAAAAAGGA
TTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG234048 representing NM_001204878
 Red=Cloning site Green=Tags(s)

MSALRRSGYGPSDGPSTYGRYYGPGGGDVPVHPPPLYPLRPEPPQPPISWRVRGGGPAETTWLGEGGGG
 GYYPSSGAWPEPGRAGGSHQSLNSYTNAYGPTYPPGPGANTASYSGAYYAPGYTQTSYSTVEPSTYRSS
 GNSPTPVSRWIYPQDCQTEAPPLRGQVPGYPPSQNPGMTLPHYPYDGNRSVPQSGPTVRPQEDAWASP
 GAYGMGGRYPPWPSSAPSAPPNLYMTESTSPWPSSGSPQSPSPPVQPKDSSYPYSQSDQSMNRHNFPC
 SVHQYESSGTVNNDSDLLDSQVQYSAEPQLYGNATSDHPNNQDQSSSLPEECVPSESTPPSIKKIIHV
 LEKVQYLEQEVEEFVGKKTDKAYWLLLEMLTKELLELDVETGGQDSVRQARKEAVCKIQAILEKLEKK
 L

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001204878

ORF Size: 1263 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.

RefSeq: [NM_001204878.2](#)

RefSeq Size: 4370 bp

RefSeq ORF: 1266 bp

Locus ID: 9530

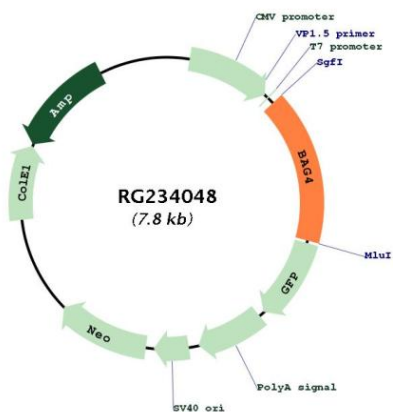
UniProt ID: [O95429](#)

Cytogenetics: 8p11.23

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 RG234048