

## Product datasheet for **SC125513**

### Silencer of Death Domain (BAG4) (NM\_004874) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Silencer of Death Domain (BAG4) (NM_004874) Human Untagged Clone
Tag:	Tag Free
Symbol:	Silencer of Death Domain
Synonyms:	BAG-4; SODD
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC125513 sequence for NM_004874 edited (data generated by NextGen Sequencing)

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ATGTCGGCCCTGAGGCGCTCGGGCTACGGCCCCAGTGACGGTCCGTCCTACGGCCGCTAC
TACGGGCCTGGGGTGGAGATGTGCCGGTACACCCACCTCCACCTTATATCCTCTTCGC
CCTGAACCTCCCCAGCCTCCCATTTCTGGCGGGTGC CGGGGGCGGCCCGGAGACC
ACCTGGCTGGGAGAAGCGGAGGAGGCGATGGCTACTATCCCTCGGGAGGCGCTGGCCA
GAGCCTGGTCGAGCCGGAGGAAGCCACCAGGAGCAGCCACCATATCCTAGCTACAATTCT
AACTATTGGAATTCTACTGCGAGATCTAGGGCTCCTTACCCAAGTACATATCCTGTAAGA
CCAGAATTGCAAGCCAGAGTTTGAATTCTTATACAAATGGAGCGTATGGTCCAACATAC
CCCCAGGCCCTGGGCAAATACTGCCTCATACTCAGGGGCTTATTATGCACCTGGTTAT
ACTCAGACCAGTTACTCCACAGAAGTTCCAAGTACTTACCGTTTCTGCAACAGCCCA
ACTCCAGTCTCTCGTTGGATCTATCCCCAGCAGGACTGTGAGACTGAAGCACCCCTCTT
AGGGGGCAGGTTCCAGGATATCCGCCTTACAGAACCCCTGGAATGACCCTGCCCCATTAT
CCTTATGGAGATGGTAATCGTAGTGTTCACAATCAGGACCGACTGTACGACCACAAGAA
GATGCGTGGGCTTCTCCTGGTGTATGGAATGGGTGGCCGTTATCCCTGGCCTTCATCA
GCGCCCTCAGCACCACCCGCAATCTCTACATGACTGAAAGTACTTCACCATGGCCTAGC
AGTGGCTCTCCCCAGTACCCCCCTTACCCCCAGTCCAGCAGCCCAAGGATTCTTCATAC
CCCTATAGCCAATCAGATCAAAGCATGAACCGGCACAACCTTCTTGCAGTGTCCATCAG
TACGAATCCTCGGGGACAGTGAACAATGATGATTGATCAGATCTTTTGGATTCCCAAGTCCAG
TATAGTGTGAGCCTCAGCTGTATGGTAATGCCACCAGTGACCATCCCAACAATCAAGAT
CAAAGTAGCAGTCTTCTGAAGAATGTGTACCTTACAGATGAAAGTACTCTCCGAGTATT
AAAAAATCATACATGTGCTGGAGAAGGTCCAGTATCTTGAACAAGAAGTAGAAGAATTT
GTAGGAAAAAAGACAGACAAAGCATACTGGCTTCTGGAAGAAATGCTAACCAAGGAACTT
TTGGAAGTGGATTGAACTGGGGCCAGGACTCTGTACGGCAGGCCAGAAAAAGAG
GCTGTTTGAAGATTCAGGCCATACTGGAAAAATTAGAAAAAAGGATTATGA

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Clone variation with respect to NM\_004874.3



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_004874 unedited GCGCCCCAACCCCCCNACCCGCNCGGTTCAAATTTGTATACGACTCATATAGGCGGC CGCGNAATTCGCACCAGGATCCCTGTCCGGCCCTGAGGCGCTCGGGCTACGGCCCCAGTGA CGGTCCGTCTACGGCCGCTACTACGGGCTGGGGTGGAGATGTGCCGGTACACCCACC TCCACCCTTATACCTCTTCGCCCTGAACCTCCCAGCCTCCCATTTCTGGCGGGTGGC CGGGGGCGGCCCGGGAGACCACCTGGCTGGGAGAAGGCGGAGGAGCGATGGCTACTA TCCCTCGGGAGGCGCCTGGCCAGAGCCTGGTCGAGCCGGAGGAAGCCACCAGGAGCAGCC ACCATATCCTAGCTACAATTCTAACTATTGGAATTCTACTGCGAGATCTAGGGCTCCTTA CCCAAGTACATATCCTGTAAGACCAGAATTGCAAGGCCAGAGTTTGAATTCTTATACAAA TGGAGCGTATGGTCCAACATACCCCCAGGCCCTGNGGCAAATACTGCCTCATACTCAGG GGCTTATTATGCACCTGGTTATACTCAGACCAGTTACTCCACAGAAGTTCCAAGTACTTA CCGTTTCTGGAACAGCCCACTCCAGTCTCTCGTTGGATCTATCCCCAGCAGGACTG TCAGACTGAAGCACCCCTCTTAGGGGGCANNGTTCAGGATATCCGCCTTACAGAACCC TGAATGACCCTGCCCATATCCCTATGGAGATGGTAATCGTAGTGGTTCACAATCCAGA CCGACTGTTGACCCCAAGAAGAGCCTGGGCTTCTCCTGGTGCTAATGGAAGGGGGCCCCG TATCCCTGGCCTTTATAAGGCCCTCAGCACCCCGGAATCTTTACATGACTGAAAGTAC TTCCCATGGGCCTACAAGGNTCTTTCCAATCCCCCTTAACCCCAATCCAGAGGCCCA GGATCTTTCTCCCTTTGGCCATTATATCAAGCTTGACCCGGCCAACCTTCTGGAGGG GTCATAAAAN
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_004874
<b>Insert Size:</b>	5050 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_004874.2</a> , <a href="#">NP_004865.1</a>
<b>RefSeq Size:</b>	2182 bp
<b>RefSeq ORF:</b>	1374 bp
<b>Locus ID:</b>	9530
<b>UniProt ID:</b>	<a href="#">O95429</a>
<b>Cytogenetics:</b>	8p11.23
<b>Domains:</b>	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]

Transcript Variant: This variant (1) encodes the longer isoform (1). 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.