

Product datasheet for **RG212765**

BAG5 (NM_001015048) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BAG5 (NM_001015048) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BAG5
Synonyms:	BAG-5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG212765 representing NM_001015048
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGATATGGAAACCAACATCCTTCTATTAGTAGGCTTCAGGAAATCCAAAAGGAAGTAAAAAGTGTAG
 AACAGCAAGTTATCGGCTTCAGTGGTCTGTGAGATGACAAGAATTACAAGAACTGGAGAGGATTCTAAC
 AAAACAGCTTTTTGAAATAGACTCTGTAGATACTGAAGGAAAAGGAGATTTAGCAAGCTAGGAAGCGG
 GCAGCACAGGAGACAGAACGTCTTCTCAAAGAGTTGGAGCAGAATGCAAACCACCCACCCGGATTGAAA
 TACAGAACATTTTTGAGGAAGCCAGTCCCTCGTGAGAGAGAAAATTGTGCCATTTATAATGGAGGCAA
 CTGCGTAACTGATGAGTTTGAAGAAGGCATCCAAGATATCATTCTGAGGCTGACACATGTTAAAAGTGA
 GAAAAATCTCCTTGGGAAAGCAAGGTATCACACTTTAACAAAATCTGTGCGGTGCAAGAGATAATCG
 AAGACTGCATGAAAAGCAGCCTTCCCTGCCGCTTCCGAGGATGCACATCCTTCCGTTGCCAAAATCAA
 CTTCTGATGTGTGAGGTGAACAAGGCCGAGGGTCTGATTGCACTTCTGATGGTGTGAACAACAAT
 GAGACCTGCAGGCACTTATCCTGTGTGCTCTCGGGCTGATCGCTGACCTGGATGCTCTAGATGTGTGCG
 GCCGGACAGAAATCAGAAATTATCGGAGGGAGGTAGTAGAAGATATCAACAAATTATTGAAATATCTGGA
 TTTGGAAGAGGAAGCAGACACAATAAGCATTGACCTGAGACAGAATCATTCCATTTAAAAATAGAA
 AAGGTCTCAAGAGAATGAGAGAAATAAAAAATGAACTTCTCAAAGCAGAAAACCCCTTCTGAATTGTACC
 TGAGCTCCAAAACAGAATTGACAGGTTTAAATGGACAGTTGGATGAGGTAAGTCTTGAAAAAACCCCTG
 CATCCGGGAAGCCAGGAGAAGAGCAGTATCGAGGTGCAAACTCTGATACATATATTGACTTGAAGGAG
 GCCCTTGAGAAAAGAAAGCTGTTTCTGTTGAGGAGCACCCATCCATAAAGCCGCTGGAACGTCTTG
 GAAACTTGTCTGAGATCCAGGGAAGTCTTTTATTGATGGAATCGAACCATAAGAACTACATCCG
 GCTGGAAGAGCTCTACCAAGCAGCTGCTAGCCCTGGATGCTGTTGATCCGAGGAGAAAGAGAAGTGT
 AAGGCTGCCAGGAAACAAGCTGTGAGGCTTGCAGAGAATATTCTCAGCTATCTCGACCTGAAATCTGATG
 AATGGGAGTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG212765 representing NM_001015048
 Red=Cloning site Green=Tags(s)

MDMGNQHPSISRLQEIQKEVKSVEQQVIGFSGLSDDKNYKLERILTKQLFEIDSVDTEGKGDIIQQARKR
 AAQETERLLKELEQANANHPHRIEIQNIFEEAQLVREKIVPFYNGGNCVTDEFEEGIQDIILRLTHVKTG
 GKISLRKARYHTLTKICAVQEIIEDCMKKQPSLPLSEDAHPSVAKINFMCEVNKARGVLIALLMGVNNN
 ETCRHLSCVL SGLIADLDALDVCGRTEIRNYRREVVEDINKLLKYLDLEEEADTTKAFDLRQNSILKIE
 KVLKRMREIKNELLQAQNPSEL YLSSKTELQGLIGQLDEVSLKNPCIREARRRAVIEVQTLITYIDLKE
 ALEKRKLFACEEHP SHKAVWNVLGNLSEIQGEVLSFDGNRTDKNYIRLEELLTKQLLALDAVDPQGEK
 KAARKQAVRLAQNILSYLDLKSDEWEY

TRTRPLE - GFP Tag - V

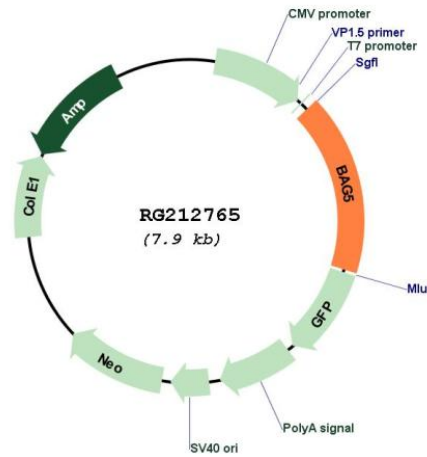
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001015048

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:	<ol style="list-style-type: none">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:	<u>NM_001015048.2</u> , <u>NP_001015048.1</u>
RefSeq Size:	4840 bp
RefSeq ORF:	1344 bp
Locus ID:	9529
UniProt ID:	<u>Q9UL15</u>
Cytogenetics:	14q32.33
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. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]