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Product datasheet for RG220122

BAG2 (NM_004282) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BAG2 (NM_004282) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BAG2
Synonyms:	BAG-2; dJ417I1.2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG220122 representing NM_004282
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTCAGGCGAAGATCAACGCTAAAGCCAACGAGGGGCGCTTCTGCCGCTCCTCCTCCATGGCTGACC
GCTCCAGCCGCCTGCTGGAGAGCCTGGACCAGCTGGAGCTCAGGGTTGAAGCTTTGAGAGAAGCAGCAAC
TGCTGTTGAGCAAGAGAAAGAAATCCTTCTGGAAATGATCCACAGTATCCAAAATAGCCAGGACATGAGG
CAGATCAGTGACGGAGAAAGAGAAGAATTAAATCTGACTGCAAACCGTTTGATGGGAAGAACTCTCACCG
TTGAAGTGTCAGTAGAAACAATTAGAAACCCCCAGCAGCAAGAATCCCTAAAGCATGCCACAAGGATTAT
TGATGAGGTGGTCAATAAGTTTCTGGATGATTTGGGAAATGCCAAGAGTCATTTAATGTCGCTCTACAGT
GCATGTTCATCTGAGGTGCCACATGGGCCAGTTGATCAGAAGTTTCAATCCATAGTAATTGGCTGTGCTC
TTGAAGATCAGAAGAAAATTAAGAGAAGATTAGAGACTCTGCTTAGAAATATTGAAAACTCTGACAAGGC
CATCAAGCTATTAGAGCATTCTAAAGGAGCTGGTTCCAAAACTCTGCAACAAAATGCTGAAAGCAGATTC
AAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

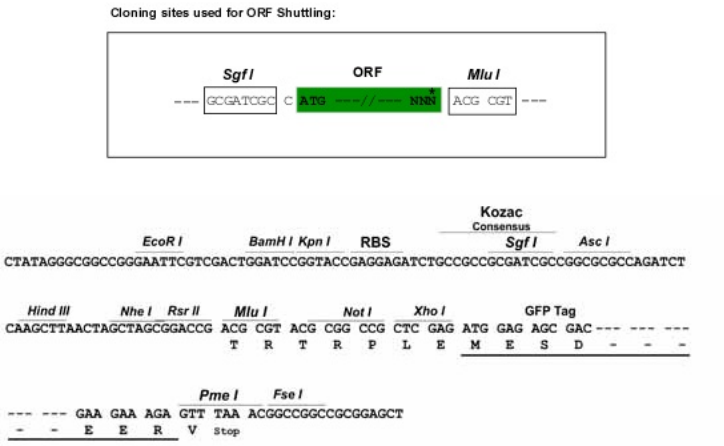
>RG220122 representing NM_004282
Red=Cloning site Green=Tags(s)

MAQAKINAKANEGRFCRSSSMADRSSRLLESLDQLELRVEALREAATAVEQEKEILLEMIHSIQNSQDMR
QISDGEREELNLTANRLMGRTLTVEVSVETIRNPQQQESLKHATRIIDEVVNKFLDDLGNAKSHLMSLYS
ACSSEVPHGPVDQKFQSIVIGCALEDQKKIKRRLETLLRNIENSDKAIKLLEHSKGAGSKTLQQNAESRF
N

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004282

ORF Size: 633 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_004282.4

RefSeq Size: 1556 bp

RefSeq ORF: 636 bp

Locus ID: 9532

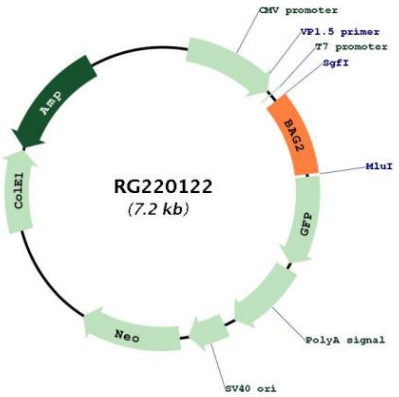
UniProt ID: O95816

Cytogenetics: 6p12.1

Protein Families: Druggable Genome

Gene Summary: BAG proteins compete with Hip for binding to the Hsc70/Hsp70 ATPase domain and promote substrate release. All the BAG proteins have an approximately 45-amino acid BAG domain near the C terminus but differ markedly in their N-terminal regions. The predicted BAG2 protein contains 211 amino acids. The BAG domains of BAG1, BAG2, and BAG3 interact specifically with the Hsc70 ATPase domain in vitro and in mammalian cells. All 3 proteins bind with high affinity to the ATPase domain of Hsc70 and inhibit its chaperone activity in a Hip-repressible manner. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG220122