

## Product datasheet for SC301252

### BUB3 (NM\_001007793) Human Untagged Clone

#### Product data:

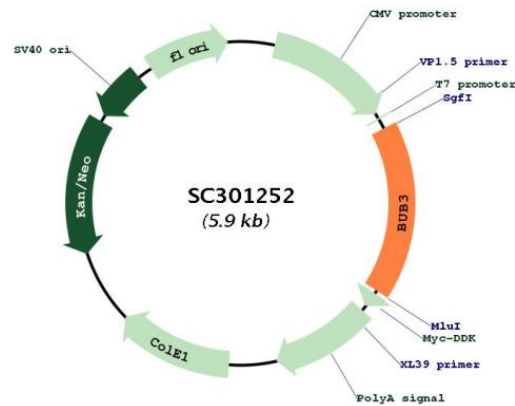
Product Type:	Expression Plasmids
Product Name:	BUB3 (NM_001007793) Human Untagged Clone
Tag:	Tag Free
Symbol:	BUB3
Synonyms:	BUB3L; hBUB3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC301252 representing NM_001007793. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTAACCGTCAGAATTTGTAAATACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGACCGGTTCTAACGAGTTCAAGCTGAACCCAGCCACCCGAGGATGGCATCTCCTCCGTGAAGTTCAGC
CCCAACACCTCCCAGTTCCTGCTGTCTCCTCCTGGGACACGTCCGTGCGTCTCTACGATGTGCCGGCC
AACTCCATGCGGCTCAAGTACCAGCACACCCGGCGCGTCTGGACTGCGCCTTCTACGATCCAACGCAT
GCCTGGAGTGGAGGACTAGATCATCAATTGAAAATGCATGATTTGAACACTGATCAAGAAAATCTTGTT
GGGACCCATGATGCCCTATCAGATGTGTTGAATACTGTCCAGAAGTGAATGTGATGGTCACTGGAAGT
TGGGATCAGACAGTTAACTGTGGGATCCAGAACTCCTTGTAATGCTGGGACCTTCTCTCAGCCTGAA
AAGGTATATACCTCTCAGTGTCTGGAGACCGGCTGATTGTGGGAACAGCAGGCCGAGAGTGTGGTG
TGGGACTTACGGAACATGGGTTACGTGCAGCAGCGCAGGGAGTCCAGCCTGAAATACCAGACTCGCTGC
ATACGAGCGTTTCCAAACAAGCAGGGTTATGTATTAAGCTCTATTGAAGGCCGAGTGGCAGTTGAGTAT
TTGGACCAAGCCCTGAGGTACAGAAGAAGAAGTATGCCTTCAAATGTCACAGACTAAAAGAAAATAAT
ATTGAGCAGATTTACCCAGTCAATGCCATTTCTTTTCAACAATATCCACAATACATTTGCCACAGTGGT
TCTGATGGCTTTGTAATATTTGGGATCCATTTAACAAAAAGCGACTGTGCCAATCCATCGGTACCCC
ACGAGCATCGCATCACTTGCCCTCAGTAATGATGGGACTACGCTTGCAATAGCGTCATCATATATGTAT
GAAATGGATGACACAGAACATCCTGAAGATGGTATCTTCATTGCGCAAGTGACAGATGCAGAAAACAAA
CCCAAGTCCACCTAA
ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_001007793

**Insert Size:** 981 bp

**OTI Disclaimer:** 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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_001007793.3](#)

**RefSeq Size:** 1374 bp

**RefSeq ORF:** 981 bp

**Locus ID:** 9184

UniProt ID: [O43684](#)  
Cytogenetics: 10q26.13  
Protein Families: Druggable Genome  
Protein Pathways: Cell cycle  
MW: 37 kDa

**Gene Summary:** This gene encodes a protein involved in spindle checkpoint function. The encoded protein contains four WD repeat domains and has sequence similarity with the yeast BUB3 protein. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]  
Transcript Variant: This variant (2) uses an alternate splice site in the 3' coding region, compared to variant 1, that results in a frameshift. It encodes isoform b which has a shorter and distinct C-terminus compared to isoform a.