

Product datasheet for RC402561

OriGene Technologies, Inc.

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BubR1 (BUB1B) (NM_001211) Human Mutant ORF Clone

Product data:

Product Type: Mutant ORF Clones

Product Name: BubR1 (BUB1B) (NM_001211) Human Mutant ORF Clone

Mutation Description: R194X
Affected Codon#: 194
Affected NT#: 580

Nucleotide Mutation: BUB1B Mutant (R194X), Myc-DDK-tagged ORF clone of Homo sapiens budding uninhibited by

benzimidazoles 1 homolog beta (yeast) (BUB1B) as transfection-ready DNA

Effect: Mosi vrieed neuploidy

Symbol: BUB1B

Synonyms: Bub1A; BUB1beta; BUBR1; hBUBR1; MAD3L; MVA1; SSK1

E. coli Selection: Kanamycin (25 ug/mL)

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-Entry (PS100001)

 Tag:
 Myc-DDK

 ACCN:
 NM_001211

ORF Size: 579 bp
Restriction Sites: Sgfl-Mlul



ORF Nucleotide Sequence:

>RC402561 representing NM_001211

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGACGAAAACGATTAAA

Protein Sequence:

>RC402561 representing NM_001211 Red=Cloning site Green=Tags(s)

MAAVKKEGGALSEAMSLEGDEWELSKENVQPLRQGRIMSTLQGALAQESACNNTLQQQKRAFEYEIRFYT GNDPLDVWDRYISWTEQNYPQGGKESNMSTLLERAVEALQGEKRYYSDPRFLNLWLKLGRLCNEPLDMYS YLHNQGIGVSLAOFYISWAEEYEARENFRKADAIFQEGIQOKAEPLERLQSQH

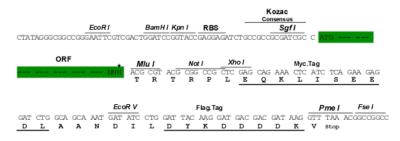
SGPTRTRRLEQKLISEEDLAANDILDYKDDDDK**V**

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF



OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at customercom or by calling 301.340.3188 option 3 for pricing and delivery.

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. <u>More info</u>

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).

RefSeq: <u>NP 001202</u>

701

RefSeq Size:579 bpRefSeq ORF:3153 bp

Cytogenetics: 15q15.1

Locus ID:

Protein Families: Druggable Genome, Protein Kinase, Stem cell - Pluripotency

Protein Pathways: Cell cycle MW: 21.2 kDa

Gene Summary: This gene encodes a kinase involved in spindle checkpoint function. The protein has been

localized to the kinetochore and plays a role in the inhibition of the anaphase-promoting complex/cyclosome (APC/C), delaying the onset of anaphase and ensuring proper chromosome segregation. Impaired spindle checkpoint function has been found in many

forms of cancer. [provided by RefSeq, Jul 2008]