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Product datasheet for RC402569

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:	L1012P
Affected Codon#:	1012
Affected NT#:	3035
Nucleotide Mutation:	BUB1B Mutant (L1012P), 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 Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
Tag:	Myc-DDK
ACCN:	NM_001211
ORF Size:	3150 bp
Restriction Sites:	SgfI-MluI
ORF Nucleotide Sequence:	>RC402569 representing NM_001211 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCGGCGGTGAAGAAGGAAGGGGGTGCTCTGAGTGAAGCCATGTCCCTGGAGGGAGATGAATGGGAAC TGAGTAAAGAAAATGTACAACCTTTAAGGCAAGGGCGGATCATGTCCACGCTTCAGGGAGCACTGGCACA AGAATCTGCCTGTAACAATACTCTTCAGCAGCAGAAACGGGCATTTGAATATGAAATTCGATTTTACACT GGAAATGACCCTCTGGATGTTTGGGATAGGTATATCAGCTGGACAGAGCAGAACTATCCTCAAGGTGGGA AGGAGAGTAATATGTCAACGTTATTAGAAAGAGCTGTAGAAGCACTACAAGGAGAAAAACGATATTATAG TGATCCTCGATTTCTCAATCTCTGGCTTAAATTAGGGCGTTTATGCAATGAGCCTTTGGATATGTACAGT TACTTGCACAACCAAGGGATTGGTGTTTCACTTGCTCAGTTCTATATCTCATGGGCAGAAGAATATGAAG

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AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGA TAAGGTTTAA

Protein Sequence:

>RC402569 representing NM_001211
Red=Cloning site Green=Tags(s)

MAAVKKEGGALSEAMSLEGDEWELSKENVQPLRQGRIMSTLQGALAQESACNNTLQQQKRAFEYEIRFYT
GNDPLDVWDRYISWTEQNYPQGGKESNMSTLLERAVEALQGEKRYYSDPRFLNLWLKLGRLCNEPLDMYS
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PVMTPCKIEPSINHILSTRKPGKEEGDPLQRVQSHQQASEEKKEKMMYCKEKIYAGVGEFSFEEIRAEVF
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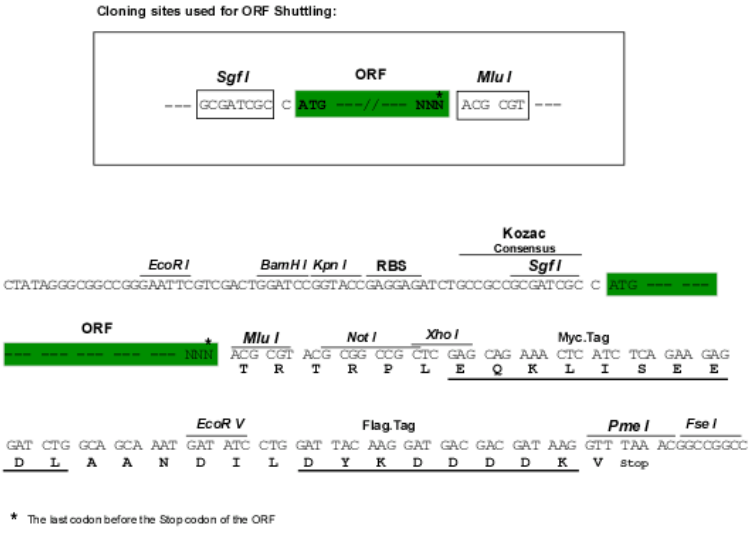
Restriction Sites: SgfI-MluI

Cloning Scheme:



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 custsupport@origene.com 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. 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).
RefSeq:	NP_001202
RefSeq Size:	3150 bp
RefSeq ORF:	3153 bp
Locus ID:	701
Cytogenetics:	15q15.1
Protein Families:	Druggable Genome, Protein Kinase, Stem cell - Pluripotency
Protein Pathways:	Cell cycle
MW:	115.5 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]