

Product datasheet for **RC402562**

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:	R224X
Affected Codon#:	224
Affected NT#:	670
Nucleotide Mutation:	BUB1B Mutant (R224X), Myc-DDK-tagged ORF clone of Homo sapiens budding uninhibited by benzimidazoles 1 homolog beta (yeast) (BUB1B) as transfection-ready DNA
Effect:	Premure hromid seprion syndrome
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:	669 bp
Restriction Sites:	Sgfl-Mlul



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ORF Nucleotide Sequence:

>RC402562 representing NM_001211
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCGGTGAAGAAGGAAGGGGTGCTCTGAGTGAAGCCATGTCCTGGAGGAGATGAATGGGAAC
 TGAGTAAAGAAAATGTACAACCTTTAAGGCAAGGGCGGATCATGTCCACGCTTCAGGGAGCACTGGCACA
 AGAATCTGCCTGTAACAATACTTTTCAGCAGCAGAAAACGGGCATTTGAATATGAAATTCGATTTTACACT
 GGAAATGACCCTCTGGATGTTTGGGATAGGTATATCAGCTGGACAGAGCAGAACTATCTCAAGGTGGGA
 AGGAGAGTAATATGTCAACGTTATTAGAAAGAGCTGTAGAAGCACTACAAGGAGAAAAACGATATTATAG
 TGATCCTCGATTTCTCAATCTCTGGCTAAATTAGGGCGTTTATGCAATGAGCCTTTGGATATGTACAGT
 TACTTGCACAACCAAGGATTGGTGTTCCTTGTCTCAGTTCTATATCTCATGGCAGAAGAATATGAAG
 CTAGAGAAAACTTTAGGAAAGCAGATGCGATATTTAGGAAAGGATTCAACAGAAGGCTGAACCACTAGA
 AAGACTACAGTCCAGCACCGACAATTCGAAGCTCGAGTGTCTCGGCAAACCTCTGTTGGCACTTGAGAAA
 GAAGAAGAGGAGGAAGTTTTTGTAGTCTTCTGTACCACAA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGA TAAGGTTTAA

Protein Sequence:

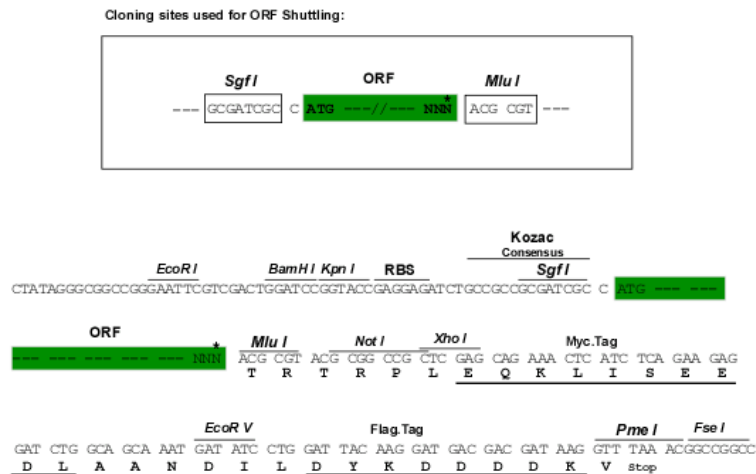
>RC402562 representing NM_001211
 Red=Cloning site Green=Tags(s)

MAAVKKEGGALSEAMSLLEGDEWELSKENVQPLRQGRIMSTLQGALAQESACNNTLQQQKRAFEYEIRFYT
 GNDPLDVWDRIYSWTEQNYPPQGGKESNMSTLLERAVEALQGEKRYSDPRFLNLWLKLRCLNEPLDMYS
 YLHNQIGVSLAQFYISWAEYEARENFRKADAIHQEIQQKAEPLERLQSQRHQFQARVSRQTLLEALEK
 EEEEEVFESSVPQ

SGPTRRRRLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


* The last codon before the Stop codon of the ORF

OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	669 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:	24.5 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]