

Product datasheet for **RC205844**

BubR1 (BUB1B) (NM_001211) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	BubR1
Synonyms:	Bub1A; BUB1beta; BUBR1; hBUBR1; MAD3L; MVA1; SSK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205844 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGCGGCGGTGAAGAAGGAAGGGGGTCTCTGAGTGAAGCCATGTCCCTGGAGGGAGATGAATGGGAAC
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Protein Sequence:

>RC205844 protein sequence
Red=Cloning site Green=Tags(s)

MAAVKKEGGALSEAMSLEGDEWELSKENVQPLRQGRIMSTLQGALAQESACNNTLQQQKRAFEYEIRFYT
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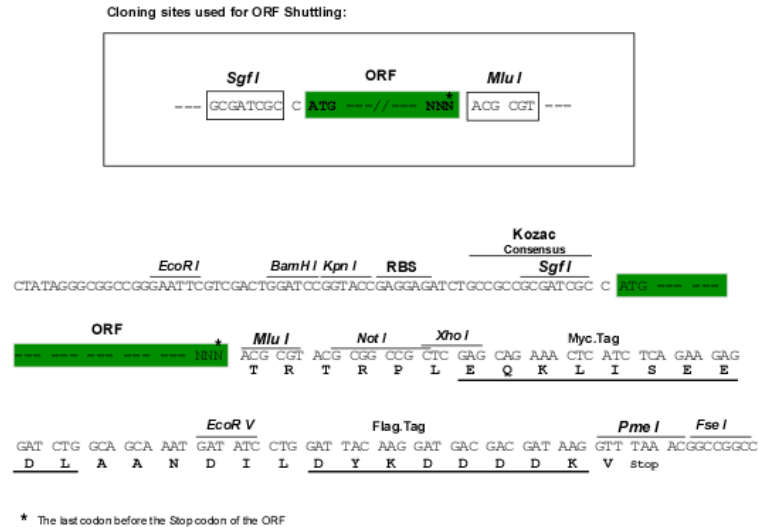
Chromatograms:

https://cdn.origene.com/chromatograms/mk6256_c07.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001211

ORF Size: 3150 bp

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.

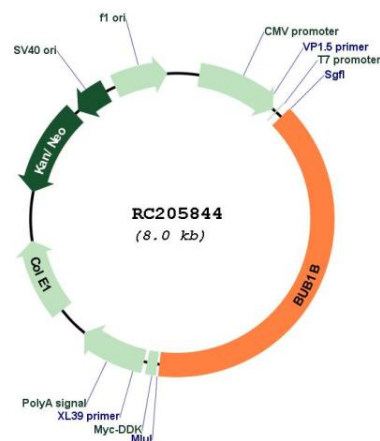
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.

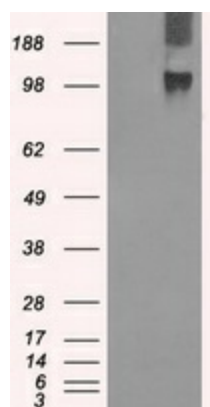
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001211.3</u>
RefSeq Size:	3749 bp
RefSeq ORF:	3153 bp
Locus ID:	701
UniProt ID:	<u>O60566</u>
Cytogenetics:	15q15.1
Protein Families:	Druggable Genome, Protein Kinase, Stem cell - Pluripotency
Protein Pathways:	Cell cycle
MW:	119.5 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]

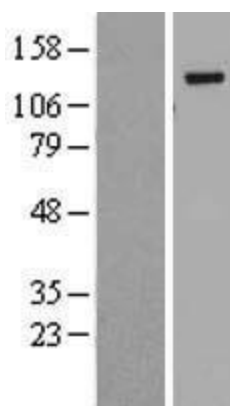
Product images:



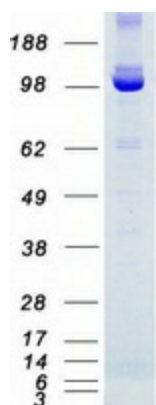
Circular map for RC205844



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY BUB1B (Cat# RC205844, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-BUB1B (Cat# [TA500533]). Positive lysates [LY420068] (100ug) and [LC420068] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY420068]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205844 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified BUB1B protein (Cat# [TP305844]). The protein was produced from HEK293T cells transfected with BUB1B cDNA clone (Cat# RC205844) using MegaTran 2.0 (Cat# [TT210002]).