

Product datasheet for **MC206387**

Bub1b (BC031577) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bub1b (BC031577) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Bub1b
Synonyms:	BUBR1, MGC36092
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC031577

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CGGACCGTGGGGCATGATGGGGCGTGAGGTGGCTATTCTGAGAAGGAGTCGGATGCGTGGTTTTGTTT
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AATGCCAGAGAAGACCCTTTTCAGTTCTCAAACTACAGAAGTGGGCACCACAAATGAGGATGTGTCTC
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TGTACTCTCTTTCAGTGTATTTTATAATAAAATAGTTTTTGTAAAAA
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- Restriction Sites:** RsrII-NotI
- ACCN:** BC031577
- Insert Size:** 3159 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).
- 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:** [BC031577](#), [AAH31577](#)
- RefSeq Size:** 3631 bp
- RefSeq ORF:** 3159 bp

Locus ID: 12236

Cytogenetics: 2 E5

Gene Summary: Essential component of the mitotic checkpoint. Required for normal mitosis progression and tumor suppression. The mitotic checkpoint delays anaphase until all chromosomes are properly attached to the mitotic spindle. One of its checkpoint functions is to inhibit the activity of the anaphase-promoting complex/cyclosome (APC/C) by blocking the binding of CDC20 to APC/C, independently of its kinase activity. The other is to monitor kinetochore activities that depend on the kinetochore motor CENPE. Required for kinetochore localization of CENPE. Negatively regulates PLK1 activity in interphase cells and suppresses centrosome amplification. Also implicated in triggering apoptosis in polyploid cells that exit aberrantly from mitotic arrest. Essential for tumor suppression. May play a role in regulating aging and fertility (By similarity).[UniProtKB/Swiss-Prot Function]