

Product datasheet for SC110841

BUB1 (NM_004336) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: BUB1 (NM_004336) Human Untagged Clone
Tag: Tag Free
Symbol: BUB1
Synonyms: BUB1A; BUB1L; hBUB1
Mammalian Cell Selection: None
Vector: pCMV6-XL4
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_004336 edited
 ATGGACACCCCGAAAAATGTCCTTCAGATGCTTGAAGCCACATGCAGAGCTACAAGGGC
 AATGACCCTCTTGGTGAATGGGAAAGATACATACAGTGGGTAGAAGAGAATTTTCCTGAG
 AATAAAGAATACTTGATAACTTTACTAGAACATTTAATGAAGGAATTTTTAGATAAGAAG
 AAATACCAACAATGACCCAAGATTCATCAGTTATTGTTTAAAAATTTGCTGAGTACAACAGT
 GACCTCCATCAATTTTTGAGTTTCTGTACAACCATGGGATTGGAACCCTGTCATCCCCT
 CTGTACATTGCCTGGCGGGGCATCTGGAAGCCCAAGGAGAGCTGCAGCATGCCAGTGCT
 GTCCTTCAGAGAGGAATCAAACCAGGCTGAACCCAGAGAGTTCCTGCAACAACAATAC
 AGGTTATTTAGACACGCCTCACTGAAACCCATTTGCCAGCTCAAGCTAGAACCTCAGAA
 CCTCTGCATAATGTTTCAGGTTTTAAATCAAATGATAACATCAAAATCAAATCCAGGAAAT
 AACATGGCCTGCATTTCTAAGAATCAGGTTTCAGAGCTTTCTGGAGTGATATCTTCAGCT
 TGTGATAAAGAGTCAAATATGGAACGAAGAGTGATCACGATTTCTAAATCAGAATATTCT
 GTGCACTCATCTTTGGCATCCAAAGTTGATGTTGAGCAGGTTGTTATGTATTGCAAGGAG
 AAGCTTATTCGTGGGGAATCAGAATTTTCCTTTGAAGAATTGAGAGCCCAGAAATACAAT
 CAACGGAGAAAGCATGAGCAATGGGTAAATGAAGACAGACATTATATGAAAAGGAAAGAA
 GCAAAATGCTTTTGAAGAACAGCTATTAACAGAAAATGGATGAACCTCATAAGAAGTTG
 CATCAGGTGGTGGAGACATCCCATGAGGATCTGCCCGCTCCCAGGAAAGGTCAGGTT
 AATCCAGCACGTATGGGGCAAGTGTAGGCTCCCAGCAGGAACAGAGAGGCCATGTCTT
 CCAGTAACCTATCAGCAGACACCAGTGAACATGGAAAAGAACCAGAGAGGCACCTCCT
 GTTGTTCCTCCTTTGGCAAATGCTATTTCTGCAGCTTTGGTGTCCCAGCCACCAGCCAG
 AGCATTGCTCCTCTGTTCTTTGAAAGCCAGACAGTAAACAGACTCCATGTTTGCAAGT
 GCCAGCAAAGATGCTGGATGTGTGAATAAGAGTACTCATGAATCAAGCCACAGAGTGG
 GCAGAGATCAAAGAAGGGTGTGAAACACATAAGGTTGCCAACACAAGTTCTTTTACACA
 ACTCCAACACATCACTGGGAATGGTTTCAGGCAACGCCATCCAAAGTGCAGCCATCACCC
 ACCGTGCACACAAAAGAAGCATTAGGTTTCATCATGAATATGTTTCAGGCTCCTACACTT
 CCTGATATTTCTGATGACAAAGATGAATGGCAATCTCTAGATCAAATGAAGATGCATTT
 GAAGCCAGTTTCAAAAAATGTAAGGTCATCTGGGGCTTGGGGAGTCAATAAGATCATC



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TCTTCTTTGTCATCTGCTTTTCATGTGTTGAAGATGGAAACAAAGAAAATTATGGATTA
 CCACAGCCTAAAAATAAACCCACAGGAGCCAGGACCTTTGGAGAACGCTCTGTCAGCAGA
 CTTCTTCAAACCAAAGGAGGAAGTGCCTCATGCTGAAGAGTTTTTGGATGACTCAACT
 GTATGGGGTATTCGCTGCAACAAAACCCCTGGCACCCAGTCTAAGAGCCCAGGAGACTTC
 ACATCTGCTGCACAACTTGCCTACACCATTCCACAAGCTTCCAGTGGAGTCAAGTGCAC
 ATTTTAGAAGATAAAGAAAATGTGGTAGCAAAACAGTGTACCCAGGCGACTTTGGATTCT
 TGTGAGGAAAACATGGTGGTGCCTTCAAGGGATGGAAAATTCAGTCCAATTCAAGAGAAA
 AGCCAAAACAGGCCTTGTGCTCACATGTATTACAGCATCCTTACTTCGCTGAGCCAG
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 TATCCAAATACTTTTGAATGGCAATGTAACCTCCAGCCATCAAGCCCAAGACTGAATTT
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 CCATGGAACTACCAGATCGATTACTTTGGGGTTGCTGCAACAGTATATTGCATGCTCTTT
 GGCACTTACATGAAAGTAAAAATGAAGGAGGAGAGTGAAGCCTGAAGGTCTTTTTAGA
 AGGCTTCCCTATTGGATATGTGGAATGAATTTTTTTCATGTTATGTTGAATATTCCAGAT
 TGTCTATCTTCCATCTTTGGATTTGTTAAGGCAAAAAGCTGAAGAAAATTTTCAACAA
 CACTATACTAACAAAGATTAGGGCCCTACGTAATAGGCTAATTGTACTGCTCTTAGAATGT
 AAGCGTTCAGAAAATAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004336 unedited
 GGATTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCGGCTTCTAG
 TTTGCGGTTACAGTTTGGCCGCTGCCGGCCAGCGTCTCTGGCCATGGACACCCCGGAAA
 ATGTCCTTCAGATGCTTGAAGCCACATGCAGAGCTACAAGGGCAATGACCCTCTGGTG
 AATGGGAAAGATACATACAGTGGGTAGAAGAGAATTTTCTGAGAATAAAGAATACTTGA
 TAACTTTACTAGAACATTTAATGAAGGAATTTTTAGATAAGAAGAAAATACCACAATGACC
 CAAGATTCATCAGTTATTGTTTAAAATTTGCTGAGTACAACAGTGACCTCCATCAATTTT
 TTGAGTTTCTGTACAACCATGGGATTGGAACCCTGTCATCCCCTCTGTACATTGCCTGGG
 CGGGGCATCTGGAAGCCCAAGGAGAGCTGCAGCATGCCAGTGCTGCTTTCAGAGAGGAA
 TTCAAAAACCAGGCTGAACCCAGAGAGTTCTGCAACAACAATACAGGTTATTTTCAGACAC
 GCCTCACTGAAACCCATTTGCCAGCTCAAGCTAGAACCTCAGAACCTCTGCATAATGTTT
 AGGTTTTAAATCAAATGATAACATCAAATCAAATCCAGGAAATAACATGGCCTGCATTT
 CTAAGAATCANGGTTTCAGAGCTTTCTGGAGTGATATCTCAGCTTGTGATAAAGAGTCAA
 ATATGGAACGAAGAGTGATCACGATTTCTAAATCAGAATATTCTGTGCACTCATCTTTGG
 CATCCAAAGTTGATGTTGAGCANGTTTGTATGTATTGCAAGGAGAGCTTATTCGTGGGGA
 TCAGAATTTNCTTTTGGATTGNAGAGCCAGAATACAATCAACGAGAAAGCATGAGNCAT
 GGGNNTAATGAGACAGACATTTNTTGAAGGNAAAGAGCAATGCTTTTGGAGACAGCTATTA
 AACAGAAATGTTGAACTCATAGAAGTGCTAN

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_004336 unedited AATGGGTGTTGCCATGGGCATTTTTNTTTTAAACAAACATTTACATAAACAATAAATGAA AAAAAACAGGTTTAAAGTGAGCAGATTCATATTTACAGTGTGATTTTTAAGGACTGTCT ATATCCAAATTTTATTTTCGTGAACGCTTACATTCTAAGAGCAGTACAATTAGCCTATTA CGTAGGGCCCTAATCTTGTTAGTATAGTGTGTTGAAATACTTTCTTCAGCTTTTGCCTT AACAAATCCAAAGATGGAAGATGACAATCTGGAATATTCAACATAACATGAAAAAT TCATTCCACATATCCAAATGAGGAAGCCTTCTAAAAAGACCTTCAGGCTTACACTCTCCT CCTTCATTTTTCACTTTTCATGTAAGTGCCAAAGAGCATGCAATATACTGTTGCAGCAACC CCAAAGTAATCGATCTGGTAGTTCATGGTTTGTGCTGAGCATCTCAACACACTGAAAA CCAGATGTTTCACACTTTGCTGTGAATATAGTTCTTTTGGAAAAAGTTTCATATCTATA CTCTGACCCAGGTCAATCAGGTGCCAAGCCAGCGGATAAATCATCTTCATCATCTGTTC CAAAAATCCGTTTCCAAGTATGAAATTGTCTGGTTTAAATGTCCTCTGGAATGATTTTCC AGTCATGCACTTGCTCAATCATGTTAAGCATTCTCATAGCAAAAGAGATGAACAGACCTT GAGGCATCACTTTTTCAGGGTATTTTTATAGAGTTAATGGCCATTTATAATGGTTCC AAGCTGGTGGAGCTTCTACTAATACACTGGCCTTTTGGAATAAGGGGGCAGAAAAGGAA CTTTCAAACATGTGCGGCATAAAAGGCTTAGGCTTCCAATAACGGGGCCCAAGTGAAAT ATCCGGGGGTTGGCAGACTTTGGACCTTAAACAAATTTGTTTTTTTAGCTACTTCCAT CTCCG
Restriction Sites:	NotI-NotI
ACCN:	NM_004336
Insert Size:	3900 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:	<ol style="list-style-type: none"> 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:	<u>NM_004336.2</u> , <u>NP_004327.1</u>
RefSeq Size:	3486 bp
RefSeq ORF:	3258 bp
Locus ID:	699
UniProt ID:	<u>O43683</u>
Cytogenetics:	2q13
Domains:	pkinase, S_TKc

Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Cell cycle, Oocyte meiosis, Progesterone-mediated oocyte maturation
Gene Summary:	<p>This gene encodes a serine/threonine-protein kinase that play a central role in mitosis. The encoded protein functions in part by phosphorylating members of the mitotic checkpoint complex and activating the spindle checkpoint. This protein also plays a role in inhibiting the activation of the anaphase promoting complex/cyclosome. This protein may also function in the DNA damage response. Mutations in this gene have been associated with aneuploidy and several forms of cancer. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>