

Product datasheet for **SC337788**

BUB1 (NM_001278617) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BUB1 (NM_001278617) Human Untagged Clone
Tag:	Tag Free
Symbol:	BUB1
Synonyms:	BUB1A; BUB1L; hBUB1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_001278617, the custom clone sequence may differ by one or more nucleotides

```

ATGGACACCCCGAAAAATGTCCTTCAGATGCTTGAAGCCACATGCAGAGCTACAAGGGCAATGACCCTC
TTGGTGAATGGGAAAGATACATACAGTGGGTAGAAGAGAATTTTCTGAGAATAAAGAATACTTGATAAC
TTTACTAGAACATTTAATGAAGGAATTTTATAGATAAGAAGAAAATACCACAATGACCCAAGATTCATCAGT
TATTGTTTAAAAATTTGCTGAGTACAACAGTGACCTCCATCAATTTTTTGTAGTTTCTGTACAACCATGGGA
TTGGAACCTGTATCCCTCTGTACATTGCTGGGCGGGGCATCTGGAAGCCAAAGGAGAGCTGCAGCA
TGCCAGTGTCTTTCAGAGAGGAATCAAACCAGGCTGAACCCAGAGAGTTCTGCAACAACAATAC
AGGTTATTTTTCAGACACGCCTCACTGAAACCCATTTGCCAGCTCAAGCTAGAACCTCAGAACCTCTGCATA
ATGTTTCAGGTTTTAAATCAAATGATAACATCAAAATCAAATCCAGGAAAATACATGGCCTGCATTCTAA
GAATCAGGTTTCAGAGCTTTCTGGAGTGATATCTTCAGCTTGATAAAGAGTCAAATATGGAACGAAGA
GTGATCACGATTTCTAAATCAGAATATTCTGTGCACTCATCTTTGGCATCCAAGTTGATGTTGAGCAGG
TTGTTATGTATTGCAAGGAGAAGCTTATTCGTGGGAATCAGAATTTTCTTTGAAGAATTGAGAGCCCA
GAAATACAATCAACGGAGAAAGCATGAGCAATGGGTAAATGAAGACAGACATTATATGAAAAGGAAAGAA
GCAATGCTTTTGAAGAACAGCTATTAACACAGAAAATGGATGAACTTCATAAGAAGTTGCATCAGGTGG
TGGAGACATCCCATGAGGATCTGCCCGCTTCCAGGAAAGGTCCGAGGTTAATCCAGCACGTATGGGGCC
AAGTGTAGGCTCCAGCAGGAAGTGAAGAGCGCCATGTCTTCCAGTAACCTATCAGCAGACACCAAGTGAAC
ATGGAAAAGAACCAAGAGAGGCACCTCCTGTTGTTCTCTCTTTGGCAATGCTATTTCTGCAGCTTTGG
TGTCGCCAGCCACCAGCCAGAGCATTGCTCCTCCTGTTCTCTTTGAAAGCCAGACAGTAAACAGACTCCAT
GTTTGCAGTGGCCAGCAAAGATGCTGGATGTGTGAATAAGAGTACTCATGAATTCAGCCACAGATGGA
GCAGAGTCAAAGAAGGGTGTGAAACACATAAGGTTGCCAACACAAGTTCTTTTACACAACCTCCAACA
CATCACTGGGAATGGTTTCAGGCAACGCCATCCAAGTGCAGCCATCACCCACCGTGCACACAAAAGAAC
ATTAGGTTTCATCATGAATATGTTTCAGGCTCCTACACTTCTGATATTTCTGATGACAAAAGATGAATGG
CAATCTCTAGATCAAAATGAAGATGCATTTGAAGCCAGTTTCAAAAAATGTAAGGTCTCTGGGGCTT
GGGGAGTCAATAAGATCATCTCTTTTGTCTGCTTTTCTGTTTGAAGTGGAAACAAAGAAAA
TTATGGATTACCACAGCCTAAAAATAAACCACAGGAGCCAGGACCTTTGGAGAAGCTCTGTGCAGAGA
CTTCTTCAAACCAAAGGAGGAAGTGCCTCATGCTGAAGAGTTTTTGGATGACTCAACTGTATGGGGTA
TTGCTGCAACAAAACCTGGCACCCAGTCTAAGAGCCAGGAGACTTACATCTGCTGCACAACCTTGC
GTCTACACCATTCCACAAGCTTCCAGTGGAGTCACTGCACATTTTGAAGATAAAGAAAAATGGGTAGCA
AAACAGTGTACCCAGGCGACTTTGGATTCTGTGAGGAAAACATGGTGGTGCCTTCAAGGGATGGAAAAT
TCAGTCCAATTCAGAGAAAAGCCAAAACAGGCTTGTGCTCTCACATGTATTACAGCATCCTTACTTCCG
TCTGAGCCAGCCTGCTGCAGGTGGGGTACTTACCTGTGAGGCAGAGTTGGGCGTTGAGGCTTGCAGACTC
ACAGACTGACGCTGCCATTGCAGAAGATCCACCAGATGCTATTGCTGGGCTCCAAGCAGAATGGATGC
AGATGAGTTCACCTGGGACTGTTGATGCTCCAACTTCAATGTTGGGAACCCATGGGATGATAAGCTGAT
TTTCAAATTTTATCTGGGCTTTCTAAACCAGTGAATTTCAATGGGTTCTAAGCTGGTCTATGCCATCACCTTCTG
GAGAAGGAGCCTTTGCCAGGTGTACGAAGCTACCCAGGAGATCTGAATGATGCTAAAAATAAACAGAA
ATTTGTTTTAAAGGTCCAAAAGCCTGCCAACCCCTGGGAATTCTACATTGGGACCCAGTTGATGGAAAGA
CTAAAGCCATCTATGCAGCACATGTTTATGAAGTTCTATTCTGCCCACTTATTCCAGAATGGCAGTGTAT
TAGTAGGAGAGCTCTACAGCTATGGAACATTATTAGATGATGAAGATGATTTATCTGCTGGCTTGGCACT
GATTGACCTGGGTGAGATATAGATATGAAACTTTTTCCAAAAGGAACTATTTACAGCAAAGTGTGAA
ACATCTGGTTTTTCAAGTGTGTTGAGATGCTCAGCAACAAACCATGGAACCTACCAGATCGATTACTTTGGG
TTGCTGCAACAGTATATTGCATGCTCTTTGGCACTTACATGAAAGTGA AAAATGAAGGAGGAGAGTGTAA
GCCTGAAGGTCTTTTGAAGGCTTCTCATTTGGATATGTGGAATGAATTTTTTTCATGTTATGTTGAAT
ATTCCAGATTGCATCATCTTCCATCTTTGGATTTGTTAAGGCAAAGCTGAAGAAGTATTTCAACAAC
ACTATACTAACAAGATTAGGGCCCTACGTAATAGGCTAATTGACTGCTCTTAGAATGTAAGCGTTCACG
AAAATAA
    
```

Restriction Sites: Sgfl-Mlul

ACCN:	NM_001278617
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_001278617.1</u> , <u>NP_001265546.1</u>
RefSeq Size:	3465 bp
RefSeq ORF:	3087 bp
Locus ID:	699
UniProt ID:	<u>O43683</u>
Cytogenetics:	2q13
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 (3) lacks an alternate in-frame exon in the 5' coding region compared to variant 1. It encodes isoform 3 which is shorter than 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>