

## Product datasheet for TP307013L

### BUB1 (NM\_004336) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human budding uninhibited by benzimidazoles 1 homolog (BUB1), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC207013 protein sequence Red=Cloning site Green=Tags(s)

MDTPENVLQMLEAHMQSYKGN DPLGEWERYIQWVEENFPENKEYLITLLEHLMKEFLDKKKYHNDPRFIS  
YCLKFAEYNSDLHQFFFLYNHGIGTLSSPLYIAWAGHLEAQGELQHASAVLQRGIQNQAEPREFLQQQY  
RLFQTRLTETHLPAQARTSEPLHNQVLNQMITSKSNPGNNMACISKNGSELSGVISSACDKESNMERR  
VITISKSEYSVHSSLASKVDVEQVVMYCKEKLIRGESEFSFEELRAQKYNQRRKHEQWVWVNE DRHYMKRKE  
ANAFEEQLLKQKMDLHKKLHQVETSHEDLPASQERSEVNPARGPSVGSQQELRAPCLPVTYQQTPVN  
MEKNPREAPPVVPPLANAI SAALVSPATSQSIAPPVPLKAQTVTDSMF AVASKDAGCVNKSTHEFKPQSG  
AEIKEGCETHKVANTSSFH TTPNTSLGMVQATPSKVQPSPTVHTKEALGFIMNMFQAP TLPDISDDKDEW  
QSLDQNE DAFEAQFQKNVRSSGAWGVNKIISLSSAFHV FEDGNKENYGLPQPKNKPTGARTFGERSVSR  
LPSKPKKEVP HAEFFLDDSTVW GIRCNTLAPSPKSPGDFTSAAQLASTPFHKL PVESVHILEDKENVVA  
KQCTQATLDSCEENMVVPSRDGKFSP IQEKSPKQALSSHMY SASLLRLSQPAAGGVLTCEAELGVEACRL  
TDTDAIAEDPPDAIAGLQAEWMQMSLGTVDAPNFIVGNPWDDKLI FKLKLSGLSKPVSSYPNTFEWQCK  
LPAIKPKTEFQLGSKLVVHLLGEGAF AQVYEATQGD LNDANKKQK FVLKVQK PANPWEFYIGTQLMER  
LKPSMQHMFMKFYSAHLFQNGSVLVGELYSYGTLLNAINLYKNTPEKVMPQGLVISFAMRMLYMIEQVHD  
CEI IHGDIKPDNFILGN GFLEQDDEDDL SAGLALIDLGQSIDMKLFPKGTIFTAKCETSGFQCVEMLSNK  
PWNYQIDYFGVAATVYCMLFGTYMKVKNEGGECKPEGLFRRLPHLDMWNEFFHVMLNIPDCHHLP SLDLL  
RQKLLKVFQQH YTNKIRALRNRLIVLLLECKRSRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

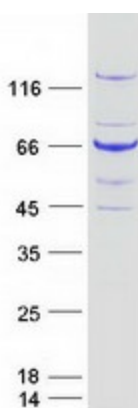
Tag:	C-Myc/DDK
Predicted MW:	122.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_004327</a>
<b>Locus ID:</b>	699
<b>UniProt ID:</b>	<a href="#">O43683</a>
<b>RefSeq Size:</b>	3636
<b>Cytogenetics:</b>	2q13
<b>RefSeq ORF:</b>	3255
<b>Synonyms:</b>	BUB1A; BUB1L; hBUB1
<b>Summary:</b>	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]
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways:</b>	Cell cycle, Oocyte meiosis, Progesterone-mediated oocyte maturation

### Product images:



Coomassie blue staining of purified BUB1 protein (Cat# [TP307013]). The protein was produced from HEK293T cells transfected with BUB1 cDNA clone (Cat# [RC207013]) using MegaTran 2.0 (Cat# [TT210002]).