

## Product datasheet for PH307013

### BUB1 (NM\_004336) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	BUB1 MS Standard C13 and N15-labeled recombinant protein (NP_004327)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC207013
Predicted MW:	122.4 kDa
Protein Sequence:	>RC207013 protein sequence Red=Cloning site Green=Tags(s)

MDTPENVLQMLEAHMQSYKGNPDLGEWERYIQWVEENFPENKEYLITLLEHLMKEFLDKKKYHNDPRFIS  
YCLKFAEYNSDLHQFFFLYNHGIGTLSSPLYIAWAGHLEAQGELQHASAVLQRGIQNQAEPREFLQQQY  
RLFQTRLTETHLPAQARTSEPLHNQVQLNQMITSKSNPGNNMACISKNQGSSELSGVISSACDKESNMERR  
VITISKSEYSVHSSLASKVDVEQVVMYCKEKLIRGESEFSFEELRAQKYNQRRKHEQWVNEDRHYMKRKE  
ANAFEEQLLKQKMDLHKKLHQVVETSHEDLPASQERSEVNPARGMPSVGSQQELRAPCLPVTYQQTPVN  
MEKNPREAPPVPPLANAISAALVSPATSQSIAPPVPLKAQTVTDSMFVASKDAGCVNKSTHEFKPQSG  
AEIKEGCETHKVANTSSFHTTNPNTSLGMVQATPSKVQPSPTVHTKEALGFIMNMFQAPTLPDISDDKDEW  
QSLDQNEFAEAQFQKNVRSSGAWGVNKIISLSSAFHVFEEDGNKENYGLPQPKNKPTGARTFGERSVSR  
LPSKPKKEEVPHAEFLDDSTVWVGIRCNKTLAPSPKSPGDFTSAAQLASTPFHKLPVESVHILEDKENVVA  
KQCTQATLDSCEENMVVPSRDGKFSPIQEKSPKQALSSHMYASALLRLSQPAAGGVLTCAEELGVEACRL  
TDTDAIAEDPPDAIAGLQAEWMQMSLGTVDAPNFIVGNPWDDKLIKLLSGLSKPVSSYPNTFEWQCK  
LPAIKPKTEFQLGSKLVYVHLLGEGAFQVYEATQGDLDNAKKNQKFLVKVQKPANPWEFYIGTQLMER  
LKPSMQHMFMKFYSAHLFQNGSVLVGELYSYGTLLNAINLYKNTPEKVMPPQGLVISFAMRMLYMIEQVHD  
CEIIHGDIKPDNFI L GNGFLEQDDEDDL SAGLALIDLQSIDMKLFPKGTIFTAKCETSGFQCVEMLSNK  
PWNYYIDYFGVAATVYCMFLFGTYMKVKNEGGECKPEGLFRRLPHLDMWNEFFHVMLNIPDCHHLPSLDLL  
RQKLLKVFQQHYTNKIRALRNRLIVLLLLECKRSRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

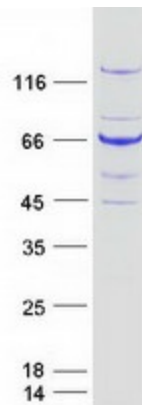
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3



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<b>Storage:</b>	Store at -80°C. Avoid repeated freeze-thaw cycles.
<b>Stability:</b>	Stable for 3 months from receipt of products under proper storage and handling conditions.
<b>RefSeq:</b>	<a href="#">NP_004327</a>
<b>RefSeq Size:</b>	3636
<b>RefSeq ORF:</b>	3255
<b>Synonyms:</b>	BUB1A; BUB1L; hBUB1
<b>Locus ID:</b>	699
<b>UniProt ID:</b>	<a href="#">O43683</a>
<b>Cytogenetics:</b>	2q13
<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]).