

Product datasheet for **RG220961**

BUB3 (NM_001007793) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BUB3 (NM_001007793) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BUB3
Synonyms:	BUB3L; hBUB3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>NM_001007793 ORF sequence, RG220961 may differ due to SNPs. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGACCGGTTCTAACGAGTTCAAGCTGAACCGCCACCCGAGGATGGCATCTCCTCCGTGAAGTTCAGC
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TCTGATGGCTTTGTAATATTTGGGATCCATTTAACAAAAAGCGACTGTGCCAATCCATCGGTACCCC
ACGAGCATCGCATCACTTGCCCTCAGTAATGATGGGACTACGCTTGAATAGCGTCATCATATATGTAT
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CCCAAGTCCACC
ACCGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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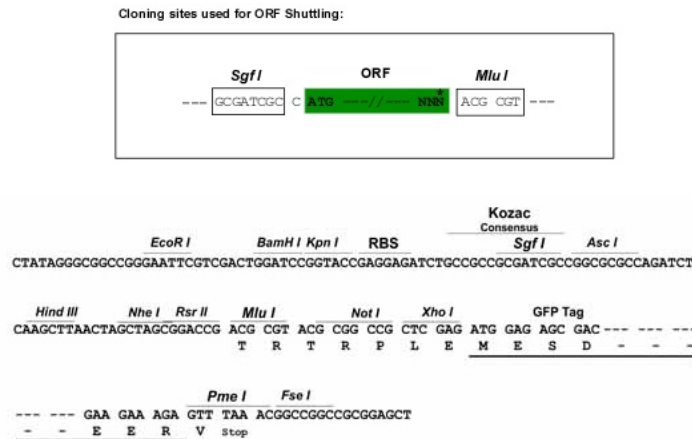
[View online »](#)

Protein Sequence: >Peptide sequence encoded by RG220961
 Blue=ORF Red=Cloning site Green=Tag(s)

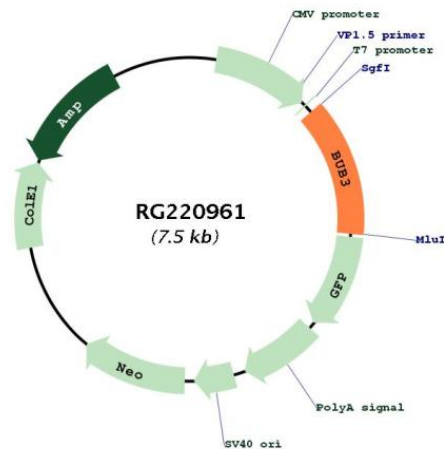
MTGSNEFKLNQPPEDGISSVKFSPNTSQFLLVSSWDTSVRLYDVPANSMRLKYQHTGAVLDCAFYDPTH
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 LDPSPVQKKKYAFKCHRLKENNIEQIYPVNAISFHNIHNTFATGGSDGFVNIWDPFNKKRLCQFHRYP
 TSIASLAFSNDGTTLAIASSYMEYEDDTEHPEDGIFIRQVTD AETKPKST
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
 SVIFTDKIIRS NATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001007793

ORF Size:	978 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	NM_001007793.3
RefSeq Size:	1374 bp
RefSeq ORF:	981 bp
Locus ID:	9184
UniProt ID:	O43684
Cytogenetics:	10q26.13
Protein Families:	Druggable Genome
Protein Pathways:	Cell cycle
MW:	37 kDa
Gene Summary:	This gene encodes a protein involved in spindle checkpoint function. The encoded protein contains four WD repeat domains and has sequence similarity with the yeast BUB3 protein. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]