

## Product datasheet for **MR207161**

### Tuba4a (NM\_009447) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tuba4a (NM_009447) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tuba4a
Synonyms:	M[a]4; Tuba4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR207161 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGCGCGAGTGCATTTTCAGTCCATGTGGGGCAGGCAGGTGCCAGATGGGCAATGCCTGCTGGGAGCTCT  
 ACTGTCTGGAACATGGGATTGAGCCTGATGGGCAGATGCCAGCGATAAGACCATTGGTGGAGGGGACGA  
 CTCTTACCACCTTCTTCTGTGAAACTGGAGCTGAAAAACATGTGCCTCGGGCAGTCTTTGTGGACCTG  
 GAGCCTACTGTAATCGATGAGATCCGAAATGGCCATACCGTCAGCTCTCCACCAGAGCAGCTTATCA  
 CTGGGAAAGAAGATGCAGCCAACAATAATGCCCCGGTGCATTACACCATTGGCAAGGAGATCATCGACCC  
 AGTGTGGACCGGATCCGCAAGCTGTCTGATCAGTGCACAGGACTTCAGGGCTTCTAGTATTCCACAGC  
 TTTGGAGGGGGCACCGGCTCTGGCTTACCTCTCTGCTGATGGAGCGGCTTTCTGTTGACTATGGCAAAA  
 AGTCCAAGCTGGAATTCTCCATCTACCCAGCCCCCAAGTGTCCACGGCTGTAGTGGAGCCCTACAACCT  
 CATCCTGACCACCATACCACCCTGGAACACTCAGACTGTGCCTTCATGGTGGACAACGAAGCCATTTAT  
 GATATCTGCCCGCTAACCTAGATATTGAGCGTCCAACCTATACCAACCTCAACCGCCTCATCAGCCAAA  
 TTGTCTCCTCCATCACAGCTTCTTGCCTTTGATGGGGCCCTCAATGTGGACCTGACAGAGTTCAGAC  
 CAACCTGGTGGCCCTACCCTCGCATCCACTTCCCCTTGGCTACCTATGCACCAGTCATTTCTCGAGAGAAG  
 GCCTACCATGAGCAGCTGTCAAGTGGCAGAGATCAACATGCCTGTTTTGAGCCTGCCAACAGATGGTGA  
 AATGTGACCCCTCGGCACGGCAAGTACATGGCCTGCTGCCTGTGTACCGTGGAGATGTGGTGGCCAAAGA  
 TGTGAATGCTGCCATAGCTGCCATCAAGACGAAGCGCAGCATCCAGTTTGTGGACTGGTGGCCACAGGC  
 TTCAAGTTGGCATCAACTACCAACCACCCTGTGGTGCCTGGGGTGACCTGGCCAAGGTGCAGCGTG  
 CTGTGTGCATGCTGAGCAACACAACCGCATTGCTGAAGCTGGGCCCGTCTGGACCACAAGTTTGACTT  
 GATGTATGCCAAGAGGGCTTTTGTACACTGGTATGTGGGTGAGGGAATGGAGGAGGGGGAGTTCTCTGAG  
 GCTCGAGAGGATATGGCTGCCCTGGAAAAAGATTATGAGGAAGTAGGCATCGACTCCTATGAGGACGAGG  
 ATGAGGGAGAAGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207161 protein sequence  
 Red=Cloning site Green=Tags(s)

MRECISVHVQAGVQMGNAWELCYLEHGIQPDGQMPQSDKTIGGGDSSFTTFFCETGAGKHVPRAVFVDL  
 EPTVIDEIRNGPYRQLFHPEQLITGKEDAANNYARGHYTIGKEIIDPVLDRIRKLSAQCTGLQGLVFNH  
 FGGGTGSGFTSLLMERLSVDYGGKSKLEFSIYPAPQVSTAVVEPYNSILTTHTTLEHSDCAFMDNEAIY  
 DICRRNLDIERPTYTNLNRLLISQIVSSITASLRFDGALNVDLTFQTNLVPYPRIFPLATYAPVISA  
 AYHEQLSVAEITNACFEPANQMVKCDPRHGKYMCCLLYRGDVVPKDVNAIAAIKTKRSIQFVDWCPTG  
 FKVGINYQPPTVVPGGDLAKVQRAVCMLSNNTTAAEAWARLDHKFDLMYAKRAVHVHVVYEGMEEGEFSE  
 AREDMAALEKDYEEVIGDSEDEDEGEE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_009447

**ORF Size:** 1347 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:**

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\\_009447.4](#), [NP\\_033473.1](#)
**RefSeq Size:** 2053 bp

**RefSeq ORF:** 1347 bp

**Locus ID:** 22145

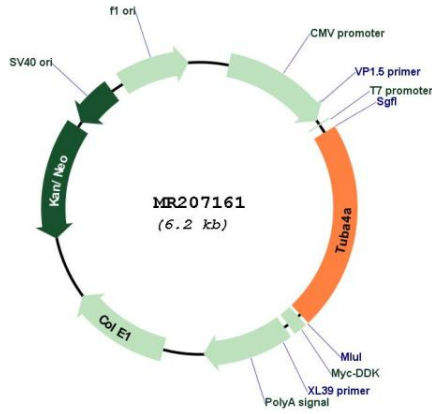
**UniProt ID:** [P68368](#)

**Cytogenetics:** 1 C4

**MW:** 49.9 kDa

**Gene Summary:** Tubulin is the major constituent of microtubules. It binds two moles of GTP, one at an exchangeable site on the beta chain and one at a non-exchangeable site on the alpha chain. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR207161