

Product datasheet for **RR205066**

Tuba8 (NM_001024339) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tuba8 (NM_001024339) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tuba8
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR205066 representing NM_001024339 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGGAATGCATATCAGTCCATGTGGTCAAGCGGGAGTTCAGATTGGCAATGCCTGCTGGGAGCTCT
TCTGTTTGGAGCATGGTATCCAGGCGGATGGGACCTTTGGCACTCAGGCCAGCAAGATCAACGACGACGA
CTCCTTACCACATTTTTTCAGTGAGACTGGCAACGAAAACATGTGCCCGGGCTGTTCATGGTGGACCTG
GAGCCTACAGTAGTAGACGAGGTGCGGGCAGGGACCTACCGCCAGCTCTCCACCCTGAGCAGCTGATCA
CAGGGAAGGAGGATGCAGCTAACAAATTACGCCCGGACACTATACGGTGGGCAAGGAGAGCATCGATCT
GGTGTGGACCGGATCCGTAACACTGACTGATGCCTGCTCCGGCTTGCAGGGTTTCTGATCTTCCACAGT
TTTGGTGGGGCACAGGCTCTGGCTTCACTTCTCTGCTGATGGAACGCCTTTCTCTTGATTATGGCAAGA
AGTCCAAGCTAGAATTTGCCATCTACCCAGCCCCACAGGCTCCACAGCAGTGGTGGAGCCCTATAACTC
CATCCTGACCACCATAACACTCTGGAACACTCTGATTGTGCTTTCATGGTGGACAATGAAGCCATCTAC
GACATCTGCCGAGGAACCTGGATATTGAGCGCCCCACCTATACCAACCTCAACCGCCTCATCAGCCAGA
TTGTCTCTCCATCACGGCTCTCTCCGCTTGTGATGGAGCCCTCAACGTGGACCTCACAGAGTTCAGAC
CAACCTGGTACCTACCCCGAATCCACTTCCCGCTGGTCACTTACGCACCCATCGTCTCTGCCGAGAAA
GCCTACCACGAGCAGCTGTCTGTGGCAGAGATAACCAGCTCTTGCTTCGAGCCCAACAGCCAGATGGTGA
AATGTGACCCACGTCACGGCAAATACATGGCCTGCTGCATGCTCTACCGTGGTGTGTGGTACCCAAAGGA
TGTGAATGTCGCCATTGCTGCCATCAAGACCAAGAGAATATTAGTTTGTGACTGGTGTCCCACAGGC
TTCAAGGTGGGCATTAACACCAGCCACTACTGTCTGTCAGGAGGAGACCTGGCCAAAGTCCAGCGAG
CAGTATGCATGCTGAGCAACACCACAGCAATCGCAGAGGCTGGGCCGCTTGACCATAAGTTCGACCT
CATGTATGCCAAACGGGCCTTTGTACATTGGTATGTTGGAGAGGGAATGGAAGAAGGAGAATTTTCTGAG
GCCAGGAGGACCTGGCTGCTCTGGAGAAGGATTATGAAGAAGTGGGACTGATTCGTTTGAAGAAGAAA
ATGAGGGGGAGGAATTT

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RR205066 representing NM_001024339
Red=Cloning site Green=Tags(s)

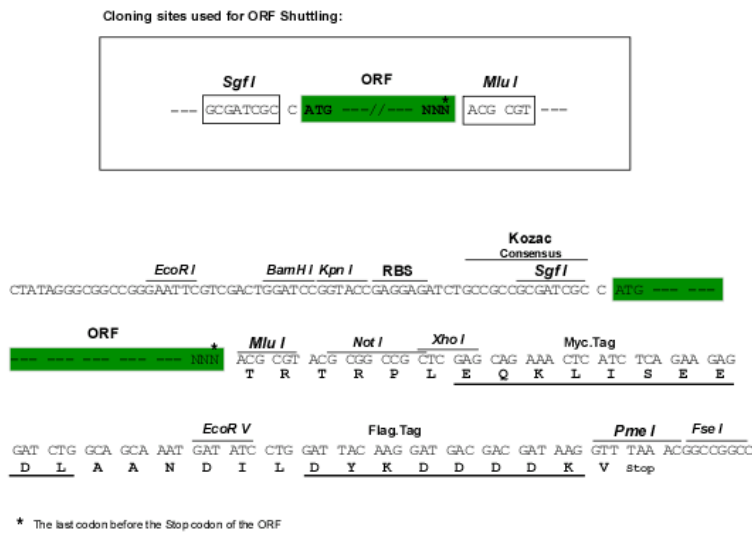
MRECISVHVGQAGVQIGNACWELFCLEHGIQADGTFGTQASKINDDDSFTTFFSETGNGKHVPRAYMVDL
 EPTVVDEVRAGTYRQLFHPEQLITGKEDAANNYARGHYTVGKESIDLVLDRIRKLTDACSLQGFILFHS
 FGGTGSFGFTSLLMERLSLDYGGKSKLEFAIYPAPQVSTAVVEPYNSILTTHTTLEHSDCAFMDNEAIY
 DICRRNLDIERPTYTNLNRLLISQIVSSITASLRFDGALNVDLTEFQTNLVPYPRIHPLVTYAPIVSAEK
 AYHEQLSVAEITSSCFEPNSQMKCDPRHGKYMCCMLYRGDVVPKDVNVAIAAIKTKRTIQFVDWCPTG
 FKVGINYQPPTVVPGGDLAKVQRAVCMLSNNTTAAEAWARLDHKFDLMYAKRAFVHVYVGEEMEEGEFSE
 AREDLAALEKDYEEVGTDSFEEENEGEFF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

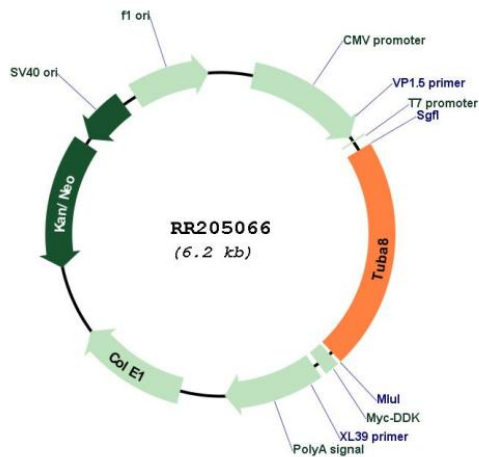
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001024339
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:	<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_001024339.1 , NP_001019510.1
RefSeq Size:	1478 bp
RefSeq ORF:	1350 bp
Locus ID:	500377
UniProt ID:	Q6AY56
Cytogenetics:	4q42
MW:	50 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]