

Product datasheet for **RR215119**

Tubb2a (NM_001109119) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tubb2a (NM_001109119) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tubb2a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR215119 representing NM_001109119 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGCGAGATCGTGCACATCCAGGCGGGCCAATGCGGCAACCAGATCGGCGCTAAGTTTTGGGAGGTGA
TAAGCGATGAGCATGGCATCGACCCACTGGCAGTTACCATGGCGACAGTGAAGTGCAGTGGAGAGAAT
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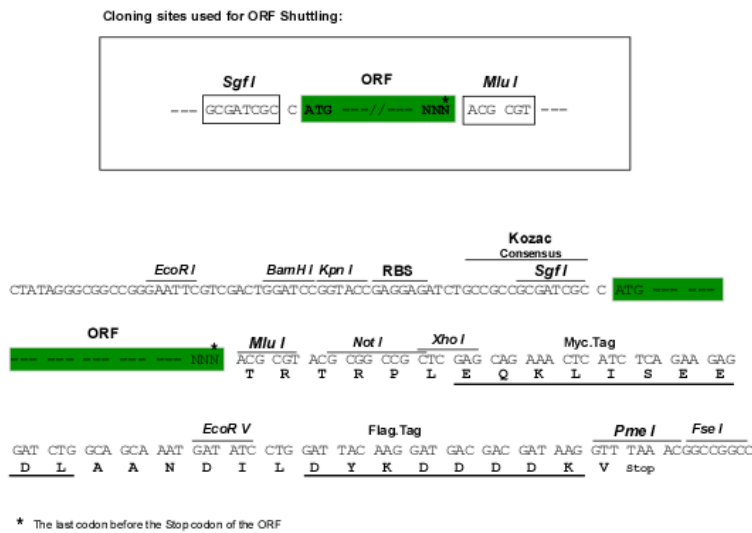
Protein Sequence: >RR215119 representing NM_001109119
 Red=Cloning site Green=Tags(s)

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 GTMDSVRSRSGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKESESCDCLQGFQLTHSLG
 GGTGSGMGTLLISKIREEYPDRIMNTFSVMPSPKVSQVSDTVVEPYNATLSVHQLVENTDEYSIDNEALYDI
 CFRTLKLTTPTYGDLNHLVSATMSGVTTCLRFPGQLNADLRKLAVNMPVFPRLHFFMPGFAPLTSRGSQQ
 YRALTVPELTQQMFDKSNMMAACDPRHGRYLTVAAIFRGRMSMKEVDEQMLNVQNKNSSYFVEWIPNNVK
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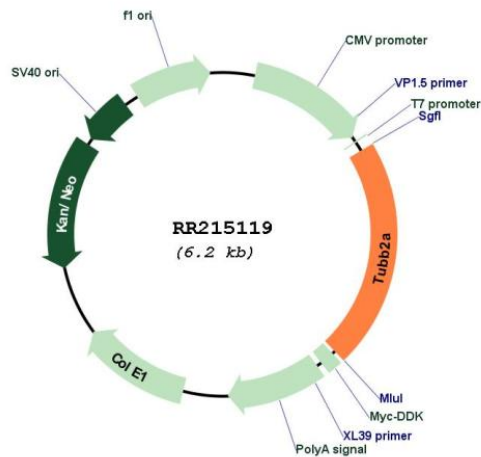
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001109119
ORF Size:	1335 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_001109119.1 , NP_001102589.1
RefSeq Size:	1603 bp
RefSeq ORF:	1338 bp
Locus ID:	498736
UniProt ID:	P85108
Cytogenetics:	17p12
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 (By similarity).[UniProtKB/Swiss-Prot Function]