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Product datasheet for RR203662

Tuba4a (NM_001007004) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tuba4a (NM_001007004) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tuba4a
Synonyms:	Tuba4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

ORF Nucleotide Sequence:

>RR203662 representing NM_001007004
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGTGAGTGCATTTCAGTCCATGTGGGCCAGGCAGGTGTCCAGATGGGCAATGCCTGCTGGGAGCTCT
ACTGCCTGGAACATGGGATTCAGCCTGATGGGCAGATGCCTAGCGATAAGACCATTGGTGGAGGGGATGA
CTCCTTCACCACCTTCTTCTGTGAAACTGGAGCTGGAAAACATGTGCCTCGGGCAGTCTTTGTGGATCTG
GAGCCTACTGTAATTGATGAGATCCGAAATGGCCCGTACCGCCAGCTCTTCCACCCAGAACAGCTTATCA
CTGGGAAGGAAGATGCAGCCAACAACTATGCCCGTGGTCACTACACCATTGGCAAGGAGATCATCGACCC
AGTGCTGGACCGGATCCGCAAGCTGTCTGATCAGTGTACAGGACTCCAGGGCTTTCTGGTGTTCCACAGC
TTTGGAGGAGGCACTGGCTCTGGCTTCACCTCTCTGCTGATGGAACGGCTTTCTGTTGACTATGGCAAGA
AGTCCAAGCTGGAGTTCTCCATCTACCCAGCCCCACAAGTGTCCACGGCTGTAGTGGAGCCCTATAACTC
CATCCTGACCACCCATACCACCCTGGAACACTCGGACTGTGCCTTCATGGTGGACAACGAGGCCATTTAT
GACATCTGTCGCCGTAACCTGGATATTGAGCGCCCAACCTATACCAACCTCAACCGCCTCATCAGCCAAA
TTGTCTCCTCCATCACAGCTTCCTTGCGCTTTGATGGGGCCCTCAATGTGGACCTGACAGAGTTCCAGAC
CAACCTGGTACCCTACCCTCGCATCCACTTCCCCTTGGCTACCTACGCACCAGTCATTTCTGCAGAGAAG
GCCTACCATGAGCAGCTGTCAGTGGCAGAGATCACCAATGCCTGTTTTGAGCCTGCCAACCAGATGGTGA
AATGTGACCCTCGGCATGGCAAGTACATGGCCTGCTGCCTGCTGTACCGGGGAGATGTGGTGCCCAAGGA
TGTGAACGCTGCCATCGCTGCCATCAAGACGAAGCGCAGCATCCAGTTTGTGGACTGGTGCCCCACAGGC
TTCAAGGTCGGTATCAACTACCAGCCTCCCACCGTGGTGCCTGGGGGCGACCTGGCCAAGGTGCAGCGTG
CAGTGTGCATGCTGAGCAACACAACCGCCATTGCTGAAGCCTGGGCCCGCCTGGACCACAAGTTTGACTT
GATGTATGCCAAGAGGGCTTTTGTACACTGGTATGTGGGTGAGGGAATGGAGGAGGGGGAGTTCTCCGAG
GCTCGAGAGGATATGGCTGCCCTGGAGAAAGATTATGAGGAAGTAGGCATCGACTCCTATGAGGACGAGG
ATGAGGGAGAAGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

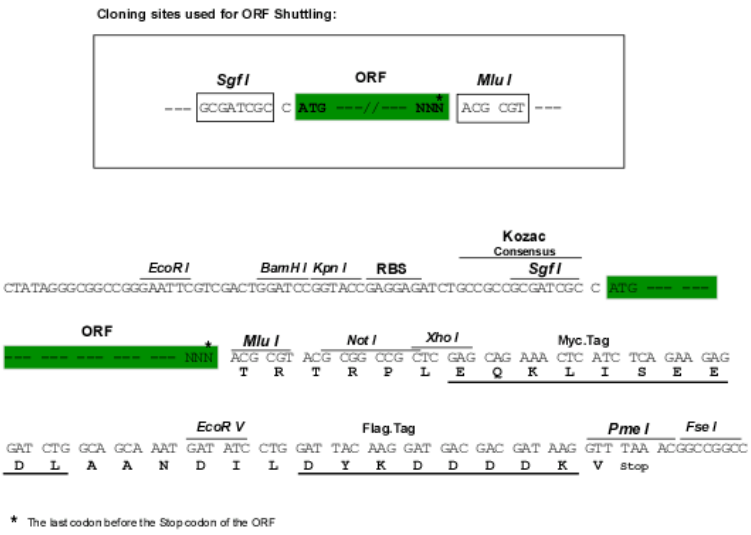
>RR203662 representing NM_001007004
Red=Cloning site Green=Tags(s)

MRECISVHVGQAGVQMGNACWELYCLEHGIQPDGQMPSDKTIGGGDDSFTTFFCETGAGKHVPRAVFVDL
EPTVIDEIRNGPYRQLFHPEQLITGKEDAANNYARGHYTIGKEIIDPVLDRIRKLSDQCTGLQGFLVFHS
FGGGTGSGFTSLLMERLSVDYGKKSKLEFSIYPAPQVSTAVVEPYNSILTTHTTLEHSDCAFMVDNEAIY
DICRRNLDIERPTYTNLNRLISQIVSSITASLRFDGALNVDLTEFQTNLVPYPRIHFPLATYAPVISAEK
AYHEQLSVAEITNACFEPANQMVKCDPRHGKYMACCLLYRGDVVPKDVNAAIAAIKTKRSIQFVDWCPTG
FKVGINYQPPTVVPGGDLAKVQRAVCMLSNTTAIAEAWARLDHKFDLMYAKRAFVHWYVGEGMEEGEFSE
AREDMAALEKDYEEVGIDSYEDEDEGEE

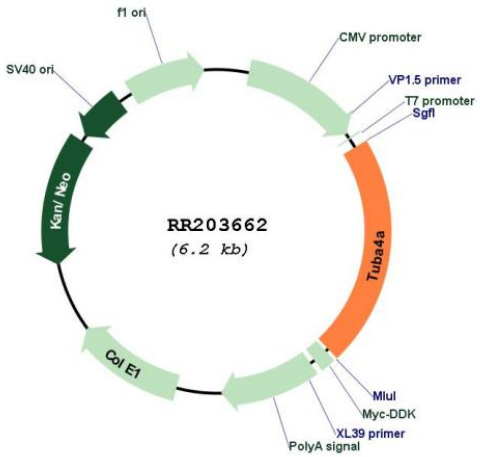
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001007004

ORF Size: 1344 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_001007004.1, NP_001007005.1
RefSeq Size:	1477 bp
RefSeq ORF:	1347 bp
Locus ID:	316531
UniProt ID:	Q5XIF6
Cytogenetics:	9q33
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]