

Product datasheet for RC219139

MTUS2 (NM_015233) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MTUS2 (NM_015233) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MTUS2
Synonyms:	CAZIP; ICIS; KIAA0774; TIP150
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC219139 representing NM_015233 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGGCCATTGCTGCTGCAAGCCTTATACTGCCTTCAGTGCCTGGACAAGACGAATGAAAGTGCCTTG
TGAAAGAAAAAGAGCTGTCAATCGAACTTGCAACATCAGGGATGAAGTTGCCTTCCATACAGCAAAGTG
CGAGAACTACAAAAGGAGAAGGAGGAGCTGGAGAGCGGTTTCGAGGACGAGGTGAAGAGGCTGGGCTGG
CAGCAGCAGGCCGAGCTCCAGGAGCTGGAGGAGCGGCTGCAGCTGCAATTCGAGGCGGAAATGGCGCGCC
TGCAGGAGGAGCACGGTGACCAGCTGCTGAGCATCCGGTGTCAACACCAGGAGCAGGTGGAAGATCTCAC
CGCCAGCCATGATGCTGCTCTCCTAGAGATGGAAAATAACCACACAGTTGCCATCACAATCCTGCAGGAT
GACCACGACCACAAAGTCCAAGAATTGATGTCCACTCATGAGCTTGAAAAGAAAGAAATTGGAAGAAAATT
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CAGAGCCCGCCGCTTCGAAGAGGCTTGAGGAAGAACACAGAGGAGCAGCTGGAGATTGCATTGGCTCCT
TATCAGCACTTGAAGAAGACATGAAGAGTCTGAAGCAGGTATTAGAAATGAAGAATCAGCAAATACACG
AGCAAGAAAAGAAGATTCTTGAGCTGGAAGAGCTGGCAGAAAAGAACATTATCCTAGAAGAAAAGATCCA
GGTTCTCCAACAGCAGAACGAAGACCTCAAAGCAAGGATTGACCAAAACACAGTTGTCAACAGACAGCTG
TCGGAGGAAAATGCTAACCTCCAGGAATATGTTGAGAAGGAAACCCAGGAGAAGAAGAGATTGAGCCGAA
CCAATGAAGAGCTGCTTTGGAAGCTCCAACTGGGGACCGACCAAGTCCGATTAAACTCTGCCCCACATC
TCCCGTTTACCGCGGCTCCTCCTCGGGGCCCTCCTCTCCGGCCAGAGTCAGCACAAACACCCAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC219139 representing NM_015233
 Red=Cloning site Green=Tags(s)

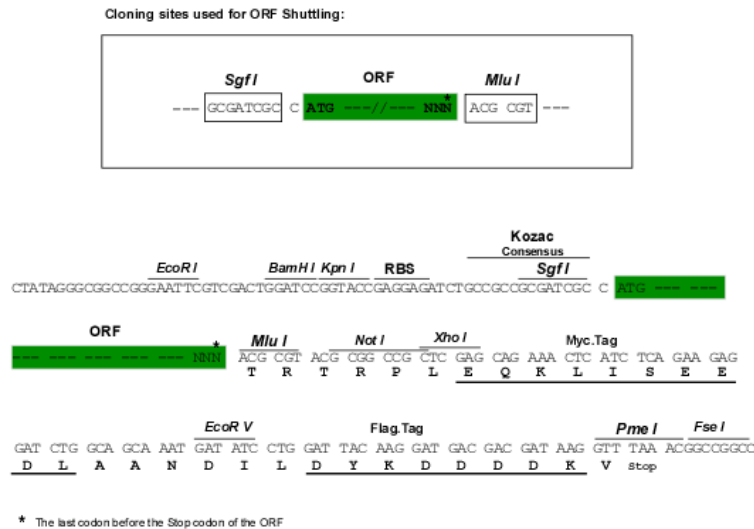
MGHCCCKPYNCLQCLDKTNESALVKEKELSIELANIRDEFAHTAKCEKLQKEEELERRFEDEVKRLGW
 QQQAELQELEERLQLQFEAMARLQEEHGDQLLSIRCQHQQVEDLTASHDAALLEMMNHTVAITILQD
 DHDHKVQELMSTHELEKKELEENFEKLRLSLQDQVDTLTFQSQSLRDRARRFEEALRKNTTEEQLIALAP
 YQHL EEDMKSLKQVLEMKNQQIHEQEKKILELEKLAEKNIILEEKIQVLQQQNEDLKARIDQNTVVTRQL
 SEENANLQEYVEKETQEKKRLSRTNEELLWKLQTDPTSPIKLSPTSPVYRGSSSGPSSPARVSTTPR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1278_e11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015233

ORF Size: 1044 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_015233.6](#)

RefSeq Size: 1779 bp

RefSeq ORF: 1047 bp

Locus ID: 23281

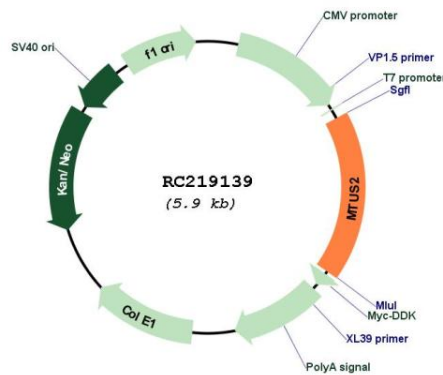
UniProt ID: [Q5JR59](#)

Cytogenetics: 13q12.3

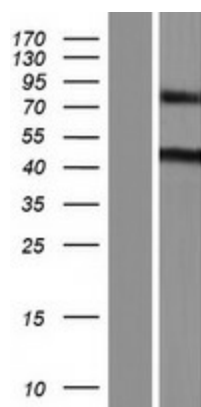
MW: 40.6 kDa

Gene Summary: Binds microtubules. Together with MAPRE1 may target the microtubule depolymerase KIF2C to the plus-end of microtubules. May regulate the dynamics of microtubules at their growing distal tip.[UniProtKB/Swiss-Prot Function]

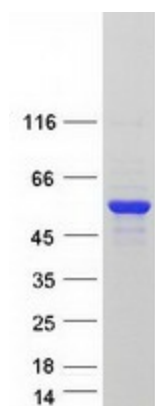
Product images:



Circular map for RC219139



Western blot validation of overexpression lysate (Cat# [LY414704]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219139 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MTUS2 protein (Cat# [TP319139]). The protein was produced from HEK293T cells transfected with MTUS2 cDNA clone (Cat# RC219139) using MegaTran 2.0 (Cat# [TT210002]).