

Product datasheet for **RG219139**

MTUS2 (NM_015233) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MTUS2 (NM_015233) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MTUS2
Synonyms:	CAZIP; ICIS; KIAA0774; TIP150
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG219139 representing NM_015233 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGGGCCATTGCTGCTGCAAGCCTTATAACTGCCTTCAGTGCCTGGACAAGACGAATGAAAGTGCCTTG
 TGAAAGAAAAAGAGCTGTCAATCGAACTTGCAACATCAGGGATGAAGTTGCCTTCCATACAGCAAAGTG
 CGAGAACTACAAAAGGAGAAGGAGGAGCTGGAGAGCGGTTTCGAGGACGAGGTGAAGAGGCTGGGCTGG
 CAGCAGCAGGCCGAGCTCCAGGAGCTGGAGGAGCGGCTGCAGCTGCAATTCGAGGCGGAAATGGCGCGCC
 TGCAGGAGGAGCACGGTGACCAGCTGCTGAGCATCCGGTGTCAACACCAGGAGCAGGTGGAAGATCTCAC
 CGCCAGCCATGATGCTGCTCTCTAGAGATGGAAAATAACCACACAGTTGCCATCACAATCCTGCAGGAT
 GACCACGACCACAAAGTCCAAGAATTGATGTCCACTCATGAGCTTGAAAAGAAAGAAATTGGAAGAAAATT
 TTGAAAAGTGCAGGCTGTCTTGCAGGACCAAGTGGACACGCTGACCTTCCAGAGCCAGTCTCTCGGGGA
 CAGAGCCCGCCGCTTCGAAGAGGCTTGAGGAAGAACACAGAGGAGCAGCTGGAGATTGCATTGGCTCCT
 TATCAGCACTTGAAGAAGACATGAAGAGTCTGAAGCAGGTATTAGAAATGAAGAATCAGCAAATACACG
 AGCAAGAAAAGAAGATTCTTGAGCTGGAAAAGCTGGCAGAAAAGAACATTATCCTAGAAGAAAAGATCCA
 GGTTCTCCAACAGCAGAACGAAGACCTCAAAGCAAGGATTGACCAAAACACAGTTGTCAACAGACAGCTG
 TCGGAGGAAAATGCTAACCTCCAGGAATATGTTGAGAAGGAAACCCAGGAGAAGAAGAGATTGAGCCGAA
 CCAATGAAGAGCTGCTTTGGAAGCTCCAACTGGGGACCGACCAAGTCCGATTAAACTCTGCCCCACATC
 TCCCGTTTACCGCGGCTCCTCCTCGGGGCCCTCCTCTCCGGCCAGAGTCAGCACAAACACCCAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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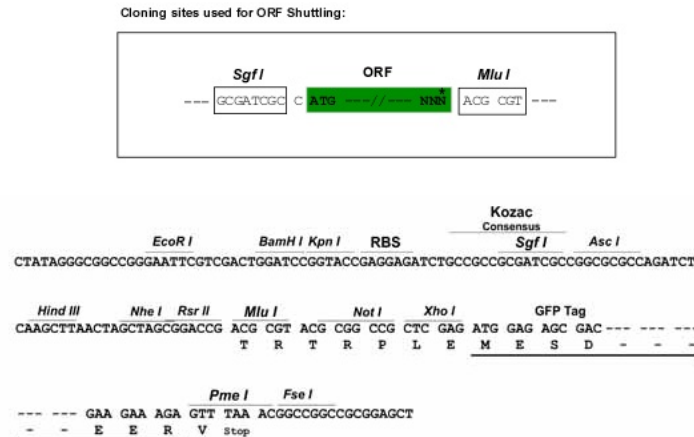
Protein Sequence: >RG219139 representing NM_015233
 Red=Cloning site Green=Tags(s)

MGHCCCKPYNCLQCLDKTNESALVKEKELSIELANIRDEVAFHTAKCEKLQKEKEELERRFEDEVKRLGW
 QQQAELQLEERLQLQFEAMARLQEEHGDQLLSIRCQHQQVEDLTASHDAALLEMENNHTVAITILQD
 DHDHKVQELMSTHELEKKELEENFEKRLRLSLQDQVDTLTFQSQSLRDRARRFEEALRKNTEEQLEIALAP
 YQHLEEDMKSLKQVLEMKNQQIHEQEKKILELEKLAEKNIILEEKIQVLQQQNEDLKARIDQNTVVTRQL
 SEENANLQEYVEKETQEKKRLSRTNEELLWKLQTDGPTSPIKLSPTSPVYRGSSSGPSSPARVSTTPR

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015233

ORF Size: 1044 bp

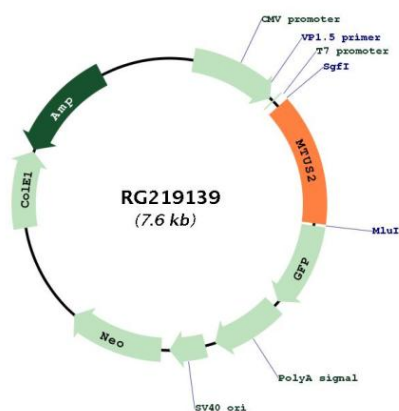
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
RefSeq:	NM_015233.6
RefSeq Size:	1779 bp
RefSeq ORF:	1047 bp
Locus ID:	23281
UniProt ID:	Q5JR59
Cytogenetics:	13q12.3
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 RG219139