

Product datasheet for **MC224305**

Mtus2 (NM_029920) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mtus2 (NM_029920) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mtus2
Synonyms:	5730592G18Rik; A730013O20Rik; AU067634; C130038G02Rik; Cazip; Gm763; mKIAA0774
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224305 representing NM_029920 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTGTCCCACTCGTCCAAAGAAATCCTGTTTTGGTCTGAGCTGCGAGATCACCGAGAGGGGGCAAAAA
ATAATAATGAGAGTATTCTGAGGACGGGAGATACAAATGCCAATCAAATCATGTTGGAGGTCAGCTCCTC
TTGCGATGAGGCCAAGTCACGTGATCTGGATGATGAGCTCGGAAATTCGAATTTAAGCAGGCCACAATAC
CACAGCCACTTCCAAAAGGAGCCCTTACCTTCAGGGCTTCGGGAAAGGGTCTCAGGCCGCTCTACCA
GCCAGAGGGAGTCTCAGGCTTCTGACTGTCCACAGGCAGCTGAGTGAAGAATGCAGTCAAAAGAGG
TGCCCTGCAGGCCCCCAAGTGTGTTTCCAGGACCAAGTCTTTCCAGCTGGAGGAATGCAGTAGGTCAAGCC
AGTCCAGAGGCTTCCGCTAAAAAGGATGCTGAGATTCAGGCACATTCCCAAGGACAAATTGGCGAAGA
CCCTTGACAACGAAGAGCTGAAGAGAGCAAGCAGCTGCTCAGCTGCAGCTGGCAGCGTCCCTCCACGGA
CCTGCAGCCAGTGCAGCTGGATACCTTGGGGCCGAGGACCATGTGCTGCGCGTGGGGAGGGGCCACAA
AGGACACCAGCCAGTCACTCTCCAGGAAAGGTTTTTCTCCAGGTGAAGGTACCTCAGAGGGGAACAGTG
TGTATCTTCTAAACCATCTACCTCAGAAGCCAAGGGTCCAGCCATCAGACACCAAGATGGAAGGGCC
ACATGGCCTGGATGTTTACAACGAGCGCATCACTCATGCAGAATTGACTCCAGTTCAGCTTCAGCGTCCG
AAGGAAAACCCCGCCTCCGTATCCGGAAGTGTGTTTAGGTCAAGGGACAGGGAAGTCCAAAGTGGAGC
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GGAAAGAAGTATGTCGCTGTAGAGAGGCAGGAGCTACTTGAGAAGGCATACCGAGAAGCCACAAGTCAA
GGGAATAGCAGTCAACCGCAGCTTGAGTACGAAGAGGCAGCAGCTAGAAGAAATGACTGGAGTCAAGT
CTGGTGTGGAGGGTCTCAGCAAGCCACCCTACACTGAGCGCCGCTCCCGCTGGAGAGGCAGTACTAG
ACTCACCGGTAATGTCAGCCGGTAGGTAGGATGGCAAGGGAAACAGCATCCGCGCAAAGTGCAGCT
GATGTCGACAAGCAGCTCCTGTTGCGCGTATCAACCGAGAGCGTCCCTCCGAGGTCAAGTGGGGAGG
AGCGGAGGCTGGGTAGCGGGAACTCGGGAGTACCAAATTTGTTGGCCTCAGGTCCTCTCGCGGAGGGAG
CAGAACCACACCTCTGGGCTCTTGGCCCTCAGGTAGCAATTTGGAAGCCAGAAAAGGCAAAGAGATG
GTAGCTGAAAATAGGAACCTTCTAGAAAATGCAGCCAAACTGACAACACTCCAGCTGGAGTAGATTCCG



CGTTCAGTACCCAGCGCCCTCCTCCACCCAGAGACAACGTGGAACCTCGAGTCATCATCCGACTCCCC
 AGGTAGCAGTTCTCAGGAGCTCGGTGTGTTTCAGTGGGGACACAGGGTACCCTCAGTGGCCTCGCCCCC
 ACGGATGGTGGCAGGTATTGAACACATCCCCAAAAGTGCTGACAGGACCACCTGCTCCAGTGGGATCC
 CCAAGCCTCTACACACCCCAAGGACACGCCCTCCTCCAGGAAGCTCGGGAGAACTGGAGACGGAGAA
 AATGGAAGAAAGGGCAGAGGCCAAGCCCATCCTCATGCCAAACCCAAACACGTGAGGCCAAGATCATC
 ACTTACATCCGCAGGAACCCCAAGGCTCTGAGTCAGGGAGATGCTTCACTGGTCCCGTGGGGCTTCCAT
 ATGCCCTCCTACATGTGGCATGCCTTCCCCAAGAAGAGAAGGCAGCGAGCCGTGACCTCAACCGTC
 TGCAAACATGTACGAGAACTGAAGCCCGACTTGCAAGAAGCCACGGGTCTCCCTTCTGGACTGATGGTG
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 ACCCTGGGAAGGAAGAATTTTGCTCCTCCCTACACCCACTATGAAGTCCCTCCCACTTCTATCGTTC
 GGCCATGCTCCTAAGCCTCAGTGGGATTGGGTGCAATGTCCCGTCTCCCATCAACCAAGAGCAGGATT
 CTGATCGCAAGCCAGAGGTCTCAGCGAGTGCCATCCATCCGCCCGGATCACTAACACAGCTGCCAGTT
 TCTACGGTTCTGATCCTCAGACCTCAAGAAAGCCTCAATTCCAATGCTGCAAAGGCCAGTCTACAAA
 ATCTGGGCTTCGTCCTCCTGGCTATTACGACTCCCTGCAGCCAAGCTGGCGGCTTCGGCTTCGTGAGG
 AGCTCCAGCATCTCTGCAGTGCCAGCAGCCAATCCCTGGACAGCGTGCAGCCGAGCAGAGCAGGCCGG
 TCAACCGCTCAACCTTTGGCAATGAAGAGCAGGCTCCTCTGAAGCAGGCTCTGCCTTCAAGGACACACC
 CAAGGGAGCCGGCCGGGGCTCCTGCGTCTTCCCTCAATGCAACAACACCACGCAGGAGTTTACTTCCA
 GCACAAAATCAACTTCCACGCCAGCTGGAGCAAAGAAAGAAATTGCAGAAAGATCCAGAAGCCAAAAGC
 CCGCTGTTTCGTCTCCAAGAGGACAGCTTCTGCTGCCACCAAACCTCACTCGCCAGGGTACCCAAAGCA
 GAGGACCTCAGCTCCTCGAAATGAGTTCACCCCAAGCCTGACCTGCAGGCCCGGGAGGCCGGAGCCGAG
 CTGGCCACGCGACTGCGGGACAGGTGTGAGTGGCAGGCCAGGCAGCTGGGTCTGGCTCGAAGGGAGCTGA
 AGAAAGCCATCCAAGGCTTCGACGCCCTGGCTGTCTCTACTAAGCATTTCTTTGGAAGAGCGAAAGAGC
 CCTTGCAGAAAGAAAGGAGCTGTCAATCGAAGTTCGCAACATCAGGGATGAAGTTGCCTTCAACACCGCC
 AAGTGTGAGAAGCTGCAGAAGGAGAAGGAGACGCTGGAGCGCGGTTTGAGGAGGAGCTGAGGAGTTGG
 GCTGGCAGCAGCAGGCGGAGGTGCAAGGTTGCAAGGAGCGGCTGCAGCAGCAGTTCCAGGCCGAGAGCGC
 GCGTCTACAGGCCGAGCATCAGGACCAGCTGCTGCGCATGCGCTGCCAGCACCAGGAGCAGGTGGAAGAC
 ATCACTGCCAGCCACGAGGCTGCCCTGCTGGAGATGGAAAATAACCATACGGTCGCCATCACCATCCTTC
 AGGATGACCATGATCACAAAGTCCAAGAAGTGTGCTACTCATGAATTTGAGAAGAAGGAGTTGGAAGA
 AAATTTGAAAAGCTGCGGCTGACATTACAGGACCAGGTGGACACGCTAACTTTTCAGAGCCAATCTCTG
 CGTGACAGAGCTCGGCGTTTGAAGAGCTCTAAGGAAAACCACGGAGGAGCAGCTAGAGATTGCGCTGG
 CTCATACAGCACCTGGAAGAAGACATGCAGAGCCTGAAGCAGGTGCTGGAGATGAAGAACCAGCAGAT
 CCACCTGCAGGAGAAGAAGATCATCGAGCTGGAAGGCTGGTGGAAAAGAATATCATCCTGGAAGAAGG
 ATCCAGGTGCTGCAGCAGCAGAATGAAGACCTCAAAGCGAGGATCGACCAGAACACAGTTGTCACCAGAC
 AACTGTGCGGAGGAAAATGCAAACTCCAGGAATACGTGGAGAAAGAGACCCAGGAAAAGAAGAGACTGAG
 CCGAACCAACGAAGAAGTACTTTGGAAGCTCCTAAACGGGGGACCAACCAGCCGATTAACCTCTCCCT
 ACATCTCCAGTGTACAGAGGCTCCTCCTCTGGACCCTCCTCTCCGGCCAGAGTCAGTACCACACCTAGAT
 GA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:

NM_029920

Insert Size:

4062 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_029920.7 , NP_084196.4
RefSeq Size:	7543 bp
RefSeq ORF:	4062 bp
Locus ID:	77521
UniProt ID:	Q3UHD3
Cytogenetics:	5 G3
Gene Summary:	<p>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 (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a). Variants 1 and 2 both encode the same isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>