

Product datasheet for **RN203870**

Mapre3 (NM_001007656) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mapre3 (NM_001007656) Rat Untagged Clone
Tag: Tag Free
Symbol: Mapre3
Synonyms: MGC94312
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN203870 representing NM_001007656
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGTC AATGTGTACTCCACTTCTGTGACCAGTGAGAATCTGAGTCGCCATGATATGCTTGCCTGGG
 TCAATGACTCTCTGCACCTCAATTATACCAAGATCGAACAGCTCTGTTCCAGGGCCAGCCTACTGCCAGTT
 CATGGACATGCTCTTCCCTGGTTGCGTGCCTTGAGGAAGGTCAAGTCCAGGCCAAGCTAGAACATGAG
 TACATCCACAACCTCAAGGTGCTGCAAGCAGCTTCAAGAAGATGGGTGTGGACAAAATCATTCCCGTAG
 AGAAATTAGTGAAGGAAAATCCAAGATAATTTTGAGTTTATTCAAGTGGTTAAGAAAATCTTTGACGC
 AAATATGATGGAAGGATTACAACCTCTGCTGGCGCGGCAGGGCCAGGACGTAGCACCACCTCCTAAC
 CCAGGTGATCAGATCTTCAACAAATCCAAGAACTCATTGGCACAGCAGTCCACAGAGGACGTCCCCCA
 CAGGCCCAAGAACATGCAAACCTCTGGCCGACTCAGTAACGTAGCTCCACCCTGCATCCTCCGGAAGAA
 TCCCCCTCAGCCGAAACGGTGGCCATGAGGCTGATGCCAGATTCTTGAACCAACCAGCAGCTGCTG
 GACTTGAAGCTGACCGTAGATGGGCTGGAGAAAGAACGGGATTTCTATTCAGCAAATTCGAGACATCG
 AGCTGATCTGCCAGGAACATGAAAGTGAGAACAGCCCTGCATCTCGGCCATCATTGGCATTCTCTATGC
 CACGGAGGAGGGATTTGCACCCCTGAGGATGATGAGATTGAAGAACCACCAACAGGAAGACCAGGACGAG
 TACTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001007656
Insert Size: 846 bp



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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:	<u>NM_001007656.1</u> , <u>NP_001007657.1</u>
RefSeq Size:	1845 bp
RefSeq ORF:	846 bp
Locus ID:	298848
UniProt ID:	<u>Q5XIT1</u>
Cytogenetics:	6q14
Gene Summary:	Plus-end tracking protein (+TIP) that binds to the plus-end of microtubules and regulates the dynamics of the microtubule cytoskeleton. Promotes microtubule growth. May be involved in spindle function by stabilizing microtubules and anchoring them at centrosomes. Also acts as a regulator of minus-end microtubule organization: interacts with the complex formed by AKAP9 and PDE4DIP, leading to recruit CAMSAP2 to the Golgi apparatus, thereby tethering non-centrosomal minus-end microtubules to the Golgi, an important step for polarized cell movement. Promotes elongation of CAMSAP2-decorated microtubule stretches on the minus-end of microtubules (By similarity). May play a role in cell migration (By similarity). [UniProtKB/Swiss-Prot Function]