

## Product datasheet for MC212060

### Mapre3 (NM\_133350) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Mapre3 (NM\_133350) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Mapre3  
**Synonyms:** A1790651; EB2; EB3; EBF3; RP3  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC212060 representing NM\_133350  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGC**C

ATGGCTGTCAATGTGTACTCCACTTCTGTGACCAGTGAGAATCTGAGTCGCCATGATATGCTTGCATGGG  
 TCAATGACTCTCTGCACCTCAATTATACCAAGATTGAACAGCTCTGTTCCAGGGCCAGCCTACTGCCAGTT  
 CATGGACATGCTCTTCCCTGGCTGTGTTCACTTGAGGAAGGTCAAGTCCAGGCCAACTAGAACACGAG  
 TACATCCACAACCTCAAGGTGCTGCAAGCAGCTTCAAGAAGATGGGTGTTGACAAAATCATTCCCGTAG  
 AGAAGTTAGTGAAGGAAAATTCCAAGATAATTTTGAAGTTTATACAGTGGTTAAGAAAATCTTTGACGC  
 AAATATGATGGAAGGATTACAACCTCTGCTGGCGCGCAGGGCCAGGACGTAGCACCACCTCCTAAC  
 CCAGGTGATCAGATCTTCAACAAATCCAAGAACTCATTGGCACAGCAGTCCCGCAGAGGACGTCCCCCA  
 CAGGCCCAAGAACATGCAGACCTCTGGACGACTCAGCAACGTGGCTCCGCCCTGCATCCTCCGGAAGAA  
 TCCCCCTCAGCCGAAACGGTGGCCATGAGGCTGACGCCAGATCCTCGAGCTTAACCAGCAGCTGCTG  
 GACTTGAAGCTGACCGTAGACGGCTTGAGAAAGAACGAGATTTCTATTCAGCAAATTCGAGACATCG  
 AGCTGATCTGCCAGGAACATGAGAGCGAGAACAGCCCCGTCATCTCGGCATCATTGGCATTCTCTATGC  
 CACGGAGGAGGGATTTGCACCCCTGAGGATGATGAGATTGAAGAACACCAACAGGAAGACCAGGACGAG  
 TACTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_133350  
**Insert Size:** 846 bp



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<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_133350.2</a></u> , <u><a href="#">NP_579928.1</a></u>
<b>RefSeq Size:</b>	2021 bp
<b>RefSeq ORF:</b>	846 bp
<b>Locus ID:</b>	100732
<b>UniProt ID:</b>	<u><a href="#">Q6PER3</a></u>
<b>Cytogenetics:</b>	5 B1
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>