

Product datasheet for MR203812

Mapre3 (NM_133350) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Mapre3 (NM_133350) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Mapre3 |
| Synonyms: | A1790651; EB2; EB3; EBF3; RP3 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >MR203812 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTGTCAATGTGTACTCCACTTCTGTGACCAGTGAGAATCTGAGTCGCCATGATATGCTTGCATGGG
TCAATGACTCTCTGCACCTCAATTATACCAAGATTGAACAGCTCTGTTCCAGGGCCAGCCTACTGCCAGTT
CATGGACATGCTTCCCTGGCTGTGTTCACTTGAGGAAGGTCAAGTCCAGGCCAACTAGAACACGAG
TACATCCACAACCTCAAGGTGCTGCAAGCAGCTTCAAGAAGATGGTGTGACAAAATCATTCCCGTAG
AGAAGTTAGTGAAGGAAAATTCCAAGATAATTTGAGTTTATACAGTGGTTAAGAAAATCTTTGACGC
AACTATGATGGAAAGGATTACAACCTCTGCTGGCGCGGAGGGCCAGGACGTAGCACCACTCCTAAC
CCAGGTGATCAGATCTTCAACAAATCCAAGAACTCATTGGCACAGCAGTTCCGCAGAGGACGTCCCCCA
CAGGCCCAAGAACATGCAGACCTCTGGAGACTCAGCAACGTGGCTCCGCCCTGCATCCTCCGGAAGAA
TCCCCCTCAGCCCGAAACGGTGGCCATGAGGCTGACGCCAGATCCTCGAGCTTAACCAGCAGCTGCTG
GACTTGAAGCTGACCGTAGACGGGCTTGAGAAAGAACGAGATTTCTATTTAGCAAAATTCGAGACATCG
AGCTGATCTGCCAGGAACATGAGAGCGAGAACAGCCCCGCATCTCGGGCATATTGGCATTCTCTATGC
CACGGAGGAGGGATTTGCACCCCTGAGGATGATGAGATTGAAGAACACCAACAGGAAGACCAGGACGAG
TAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203812 protein sequence
Red=Cloning site Green=Tags(s)

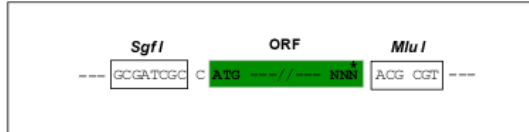
MAVNVYSTSVTSENLSRHDLAWVNDLHLNYTKIEQLCSGAAYCQFMDMLFPGCVHLRKYKFKAKLEHE
 YIHNFKVLQAAFKKMGVDKIIPVEKLVKGFQDNFEFIQWFKKFFDANYDGKDYNPLLARQGQDVAPPPN
 PGDQIFNKSKKLIGTAVPQRTSPTGPKNMQTSGRLSNVAPPCILRKNPPSARNGGHEADAQILELNQQLL
 DLKLTVDGLEKERDFYFSKLRDIELICQEHESENSPVISGIIIGILYATEEGFAPPEDDEIEEHQEDQDE
 Y

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_133350

ORF Size: 846 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_133350.2](#), [NP_579928.1](#)

RefSeq Size: 1921 bp

RefSeq ORF: 846 bp

Locus ID: 100732

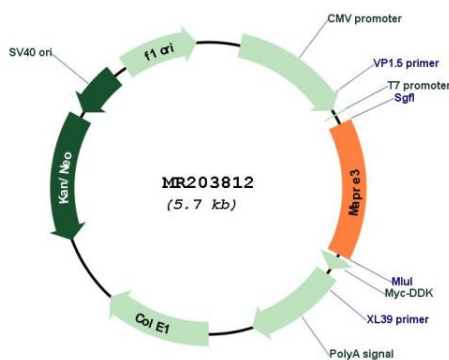
UniProt ID: [Q6PER3](#)

Cytogenetics: 5 B1

MW: 32 kDa

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]

Product images:



Circular map for MR203812