

Product datasheet for **MG219307**

Mapre2 (NM_001162942) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mapre2 (NM_001162942) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mapre2
Synonyms:	AI314113; C820009F03Rik; D18Abb1e; EB1; EB2; RP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG219307 representing NM_001162942 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGTCAATGTGTATTCTACCTCGATAACCCAGGAGACTATGAGCAGGCATGACATCATTGCATGGG
TCAATGACATCGTGTCTCTAAACTACACAAAAGTGAACAGCTCTGTTCCAGGAGCAGCCTATTGCCAGTT
CATGGACATGCTCTTCCCGGGCTGTATTAGTTGAAGAAAGTAAAATCCAAGCAAAGTTGGAGCATGAG
TATATTCACAACCTTAACTTCTGCAAGCATCCTTTAAACGGATGAATGTTGATAAGGTAATCCCAGTGG
AGAAGCTGGTGAAGGGGCTTCCAAGACAACCTGGATTTTATTCAGTGGTTAAGAAGTTCTACGATGC
TAACTATGACGGGAAGGAGTACGATCCTGTTGAGGCCCGACAAGGCAAGATGCAATTCCTCCCCCTGAC
CCTGGTGAACAGATCTTCAACCTGCCAAGAAGTCGCACCATGCAAACCTCCCCACAGCAGGCGCGGCTA
AGTCAAGTCTGCATCTAAGCCAGGATCCACACCTTCTCGCCCCTCGTCTGCCAAAAGGGCTTCATCCAG
TGGCTCTGCATCCAGATCTGACAAAGATTTAGAAACGCAGGTCATACAGCTCAACGAGCAGGTACATTCA
TTGAACTCGCCCTAGAAGGTGTGGAGAAGGAGAGGGATTTCTACTTCGGGAAGTTGAGAGAGATTGAGC
TGCTGTGCCAAGAACATGGGCAGGAGAACGATGACCTCGTGCAGCGACTAATGGAAGTGTCTACGCTTC
CGATGAACAGGAGGCCAAACGGAAGAGCCAGAAGCAGAGGAGCAAGCCCATGACCAGCAGCCCCAGCAG
CAGGAGGAGTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG219307 representing NM_001162942
 Red=Cloning site Green=Tags(s)

MAVNVYSTSITQETMSRHDIIAWVNDIVSLNYTKVEQLCSGAAYCQFMDMLFPGCISLKKVKFQAKLEHE
 YIHNFKLLQASFKRMNVDKVIPVEKLVKGRFQDNLDFIQWFKKFYDANYDGKEYDPVEARQGQDAIPPPD
 PGEQIFNLPKSSHANSPTAGAAKSSPASKPGSTPSRPSSAKRASSSGSASRSKDLETQVIQLNEQVHS
 LKLALEGVKERDFYFGKLR EIELLCQEHGQENDDLVQRLMEVL YASDEQEGQTEEPEAEQAHQQPQQ
 QEEY

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001162942

ORF Size: 852 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_001162942.1](#), [NP_001156414.1](#)

RefSeq Size: 3936 bp

RefSeq ORF: 855 bp

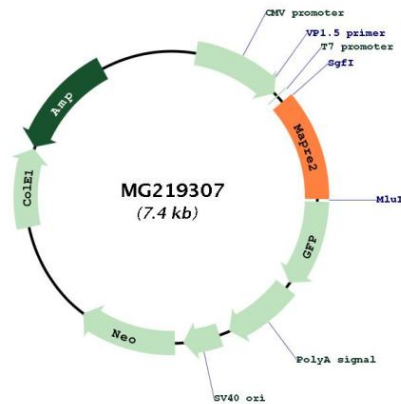
Locus ID: 212307

UniProt ID: [Q8R001](#)

Cytogenetics: 18 12.08 cM

Gene Summary: May be involved in microtubule polymerization, and spindle function by stabilizing microtubules and anchoring them at centrosomes. May play a role in cell migration (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG219307