

## Product datasheet for MR219307

### Mapre2 (NM\_001162942) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mapre2 (NM_001162942) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mapre2
Synonyms:	AI314113; C820009F03Rik; D18Abb1e; EB1; EB2; RP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR219307 representing NM_001162942 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGTCAATGTGTATTCTACCTCGATAACCCAGGAGACTATGAGCAGGCATGACATCATTGCATGGG  
TCAATGACATCGTGTCTCTAACTACACAAAAGTGAACAGCTCTGTTCAGGAGCAGCCTATTGCCAGTT  
CATGGACATGCTTCCCGGGCTGTATTAGTTGAAGAAAGTAAAATCCAAGCAAAGTTGGAGCATGAG  
TATATTCACAACCTTAACTTCTGCAAGCATCCTTTAAACGGATGAATGTTGATAAGGTAATCCCAGTGG  
AGAAGCTGGTGAAGGGGCTTCCAAGACAACCTGGATTTTATTCAGTGGTTAAGAAGTTCTACGATGC  
TAACTATGACGGGAAGGAGTACGATCCTGTTGAGGCCGACAAGGCAAGATGCAATTCCTCCCCCTGAC  
CCTGGTGAACAGATCTTCAACCTGCCAAGAAGTCGCACCATGCAAACCTCCCCACAGCAGGCGCGGCTA  
AGTCAAGTCTGCATCTAAGCCAGGATCCACACCTTCTCGCCCCTCGTCTGCCAAAAGGGCTTACCCAG  
TGGCTCTGCATCCAGATCTGACAAAAGTTAGAAACGCAGGTCATACAGCTCAACGAGCAGGTACATTCA  
TTGAACTCGCCCTAGAAGGTGTGGAGAAGGAGAGGGATTTCTACTTCGGGAAGTTGAGAGAGATTGAGC  
TGCTGTGCCAAGAACATGGGCAGGAGAACGATGACCTCGTGCAGCGACTAATGGAAGTGTCTACGCTTC  
CGATGAACAGGAGGCCAAACGGAAGAGCCAGAAGCAGAGGAGCAAGCCCATGACCAGCAGCCCCAGCAG  
CAGGAGGAGTAC

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >MR219307 representing NM\_001162942  
 Red=Cloning site Green=Tags(s)

MAVNVYSTSITQETMSRHDIIAWVNDIVSLNYTKVEQLCSGAAYCQFMDMLFPGCISLKKVKFQAKLEHE  
 YIHNFKLLQASFKRMNDKVIPVEKLVKGRFQDNLDFIQWFKFYDANYDGKEYDPVEARQGDAIPPPD  
 PGEQIFNLPKSHHANSPTAGAAKSSPASKPGSTPSRPSSAKRASSSGSASRSKDLETQVIQLNEQVHS  
 LKLALEGVEKERDFYFGKLR EIELLCQEHGQENDDLVQRLMEVL YASDEQEGQTEEPEAEQAHQQPQQ  
 QEEY

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\_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

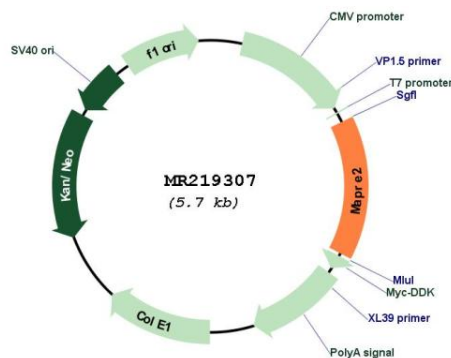
**UniProt ID:** [Q8R001](#)

**Cytogenetics:** 18 12.08 cM

**MW:** 32.7 kDa

**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 MR219307