

Product datasheet for **RR214149**

Mapre2 (NM_001101000) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mapre2 (NM_001101000) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Mapre2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR214149 representing NM_001101000
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGGGGCCGACCCAAACCTTGTCCTCCAAATGGCGAGAACAACAACGACATCATCCAGGATAACGGGA
CTATCATTCTTTCCGGAAGCACACAGTGCAGGGGAGCGGTCTACAGTTGGGAATGGCGGTCAATGT
GTATTCTACCTCGATAACCCAGGAGACTATGAGCCGGCATGACATCATCGCATGGGTTAATGACATCGTG
TCTCTAAACTACAAAAAGTGGAACTCTGTTCAAGGAGCGGCTACTGCCAGTTCATGGACATGCTCT
TCCCGGGCTGTATTAGTTTGAAGAAAGTAAATCCAAGCAAAGTTGGAGCACGAGTATATCCACA
TAAACTCTGCAAGCGTCTTTAAACGGATGAATGTTGATAAGGTAATCCCGGTGGAGAAGCTGGTGAAG
GGGCGTTTCCAAGACAACCTGGATTTTATTAGTGGTTTAAAGAAATCTACGATGCTAACTATGACGGGA
AGGAGTATGATCCTGTTGAGGCTCGACAAGGGCAGGATGCAATTCCTCCCCTGACCCTGGGAGCAGAT
CTTCAACCTGCCTAAGAAGTCTCACCATGCAAACCTCCCCACAGCAGGCGCGGCTAAGTCAAGTCCGGCC
GCCAAGCCGGGATCTACACCTTCTCGTCCCTCGTCTGCCAAAAGGGCTTCGTCCAGCGGCTCGCATCCA
GATCTGACAAAGATTTAGAAACACAGGTCATACAGCTCAACGAACAGGTTCACTTCACTGAACTCGCCCT
GGAAGGTGTGGAGAAAGAGAGGGATTTCTACTTCGGGAAGTTGCGAGAGATTGAGCTGCTATGCCAGGAA
CATGGGCAGGAAAACGATGACCTCGTGCAGCGACTAATGGAAGTCTGTATGCTTCCGACGAACAGGAGG
GCCAAACAGAGGAGCCGGAAGTGGAGGAGCAAACCCATGACCAACAGCCCAGCAGCAGGAAGAGTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR214149 representing NM_001101000
 Red=Cloning site Green=Tags(s)

MPGPTQLSPNGENNDI IQDNGTIIPFRKHTVRGERSYSWGMVNVYSTSITQETMSRHDI IAWVNDIV
 SLNYTKVEQLCSGAAYCQFMDMLFPGCISLKKVKFQAKLEHEYIHNFKLLQASFKRMNVDKVIPVEKLVK
 GRFQDNLDFIQWFKKFYDANYDGKEYDPVEARQGQDAIPPPDPGEQIFNLPKKSHHANSPTAGAAKSSPA
 AKPGSTPSRPSSAKRASSSGSASRSDDKLETQVIQLNEQVHSLKLALEGVVEKERDFYFGKLR EIELLCQE
 HGQENDDLVQRLMEVLYASDEQEGQTEPEVEEQTHDQQPQQEEY

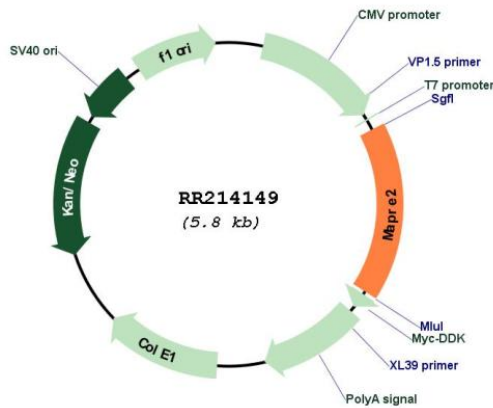
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001101000

ORF Size:	978 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:	<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:	NM_001101000.1 , NP_001094470.1
RefSeq Size:	2463 bp
RefSeq ORF:	981 bp
Locus ID:	679221
UniProt ID:	Q3B8Q0
Cytogenetics:	18p12
MW:	37 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]