

Product datasheet for **MR204749**

Mapre2 (NM_153058) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mapre2 (NM_153058) 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:	>MR204749 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGGGCCGACCCAAACGTTGTCCCAAATGGCGAGAACAACAACGACATCATCCAGGATAACGGGA
CTATCATTCTTTCCGGAAGCACACAGTGCAGGGGAGCGGTCTACAGTTGGGAATGGCGGTCAATGT
GTATTCTACCTCGATAACCCAGGAGACTATGAGCAGGCATGACATCATTGCATGGTCAATGACATCGT
TCTCTAAACTACACAAAAGTGGACAGCTCTGTTCAAGGAGCAGCCTATTGCCAGTTCATGGACATGCTCT
TCCCGGGCTGTATTAGTTTGAAGAAAGTAAAATCCAAGCAAAGTTGGAGCATGAGTATATTCACA
TAAACTTCTGCAAGCATCCTTTAAACGGATGAATGTTGATAAGGTAATCCAGTGGAGAAGCTGGTGAA
GGCGTTTCCAAGACAACCTGGATTTTATTCAGTGGTTTAAAGAAGTTCTACGATGCTA
AGGAGTACGATCCTGTTGAGGCCGACAAGGGCAAGATGCAATTCCTCCCCTGACCCTGGTGAACAGAT
CTTCAACCTGCCAAGAAGTCGCACCATGCAAACCTCCCCACAGCAGGCGCGGCTAAGTCAAGTCTGCA
TCTAAGCCAGGATCCACACCTTCTCGCCCTCGTCTGCCAAAAGGGCTTCATCCAGTGGCTGCA
GATCTGACAAAGATTTAGAAACGCAGGTCATACAGCTCAACGAGCAGGTACATTCATTGAAACTCGCCCT
AGAAGGTGTGGAGAAGGAGAGGGATTTCTACTTCGGGAAGTTGAGAGAGATTGAGCTGCTGTGCCAAGAA
CATGGGCAGGAGAACGATGACCTCGTGCAGCGACTAATGGAAGTCTCTACGCTTCCGATGAACAGGAGG
GCCAAACGGAAGAGCCAGAAGCAGAGGCAAGCCCATGACCAGCAGCCCAGCAGCAGGAGGAGTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204749 protein sequence
Red=Cloning site Green=Tags(s)

```
MPGPTQLSPNGENNDIIQDNGTIIPFRKHTVRGERSYSWGMVNVYSTSITQETMSRHDIIAWVNDIV
SLNYTKVEQLCSGAAYCQFMDMLFPGCISLKKVKFQAKLEHEYIHNFKLLQASFKRMNVKVIPVEKLVK
GRFQDNLDIFIQWFKFYDANYDGKEYDPVEARQGQDAIPPPDPGEQIFNLPKKSHHANSPTAGAAKSSPA
SKPGSTPSRPSSAKRASSSGSASRSKDKLETQVIQLNEQVHSLKLALEGVEKERDFYFGKLR EIELLCQE
HGQENDDLVQRLMEVLYASDEQEGQTEEPEAEEQAHDQQPQQEEY
```

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_153058

ORF Size: 981 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_153058.4](#)

RefSeq Size: 4044 bp

RefSeq ORF: 981 bp

Locus ID: 212307

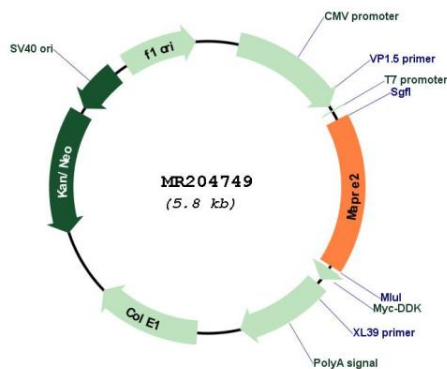
UniProt ID: [Q8R001](#)

Cytogenetics: 18 12.08 cM

MW: 36.9 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 MR204749