

Product datasheet for **MG204749**

Mapre2 (NM_153058) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mapre2 (NM_153058) 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:	>MG204749 representing NM_153058 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCGGGCCGACCCAAACGTTGTCCCAAATGGCGAGAACAACAACGACATCATCCAGGATAACGGG
CTATCATTCTTTCCGGAAGCACACAGTGCAGGGGAGCGGTCTACAGTTGGGAATGGCGGTCAATGT
GTATTCTACCTCGATAACCCAGGAGACTATGAGCAGGCATGACATCATTGCATGGTCAATGACATCGT
TCTCTAAACTACACAAAAGTGGACAGCTCTGTTCAAGGAGCAGCCTATTGCCAGTTCATGGACATGCTCT
TCCCGGGCTGTATTAGTTTGAAGAAAGTAAAATCCAAGCAAAGTTGGAGCATGAGTATATTCACA
TAAACTTCTGCAAGCATCCTTTAAACGGATGAATGTTGATAAGGTAATCCAGTGGAGAAGCTGGT
GGGCGTTTCCAAGACAACCTGGATTTTATTCAGTGGTTTAAAGAAGTTCTACGATGCTA
AGGAGTACGATCCTGTTGAGGCCGACAAGGGCAAGATGCAATTCCTCCCCTGACCCTGGTGAACAGAT
CTTCAACCTGCCAAGAAGTCGCACCATGCAAACCTCCCCACAGCAGGCGCGGCTAAGTCAAGTCTGCA
TCTAAGCCAGGATCCACACCTTCTCGCCCTCGTCTGCCAAAAGGGCTTCATCCAGTGGCTCTGCATCCA
GATCTGACAAAGATTTAGAAACGCAGGTCATACAGCTCAACGAGCAGGTACATTCATTGAAACTCGCCCT
AGAAGGTGTGGAGAAGGAGAGGGATTTCTACTTCGGGAAGTTGAGAGAGATTGAGCTGCTGTGCCAAGAA
CATGGGCAGGAGAACGATGACCTCGTGCAGCGACTAATGGAAGTCTCTACGCTTCCGATGAACAGGAGG
GCCAAACGGAAGAGCCAGAAGCAGAGGCAAGCCCATGACCAGCAGCCCCAGCAGCAGGAGGAGTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204749 representing NM_153058
Red=Cloning site Green=Tags(s)

MPGPTQLSPNGENNDIIQDNGTIIPFRKHTVRGERSYSWGMVNVYSTSITQETMSRHDIIAWVNDIV
 SLNYTKVEQLCSGAAYCQFMDMLFPGCISLKKVKFQAKLEHEYIHNFKLLQASFKRMNVKVIPVEKLVK
 GRFQDNLDFIQWFKKFYDANYDGKEYDPVEARQGQDAIPPPDPGEQIFNLPKKSHHANSPTAGAAKSSPA
 SKPGSTPSRPSSAKRASSSGSASRSDDKLETQVIQLNEQVHSLKLALEGVVEKERDFYFGKLEIELLCQE
 HGQENDDLVQRLMEVLYASDEQEGQTEEPEAEEQAHDQQPQQQEEY

TRTRPLE - GFP Tag - V

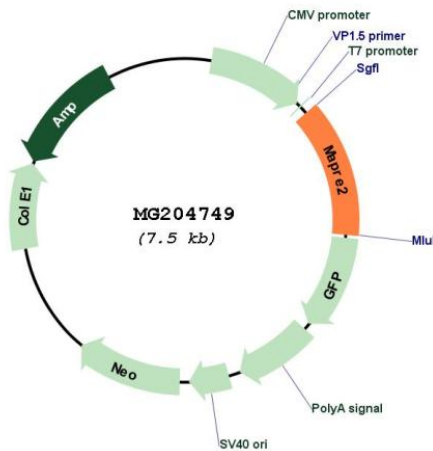
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_153058

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_153058.4
RefSeq Size:	4023 bp
RefSeq ORF:	981 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]