

Product datasheet for **MG214597**

Majin (NM_001165919) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Majin
Synonyms:	1700123101Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG214597 representing NM_001165919
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTTTAAAACCATTCACCTACCCATTTCCAGAGACAAGTTCCCTTCATGCAGGACCCAATGTGTATA
AGTTCAAAATCAGATATGGCAACAGTATCAGAGGAGAAGAAATAGAGGATAAGGAAGTCATCGTCCAGGA
GCTGGAGGATTCTATCCGTGCAGTCTTGGCAAACATGGACAGCCTGCAACCCCTTGTACAGAACACTTC
ATTGTATTTCCCTATAAAGCAAGTGGGAGAGAGTTTCCACCTGAAGTTTAAACATGGGAAAGCATCC
TGACGCCCTACCCGTTTGTCTTTACTTTGTATATAGAGATGAAATGGTTTCTGAAGACTTGCCTCCGG
GAAACCAGCAGATGATATTCTCTTGTGTTGCTCTAGCTGAGACGGAAGCAGAAGAAGCCACAATGAGG
AAATGGAAACGAAACTCATGGAGGAGCCAGCTCCCCTAGCAGGCAGGGCCACACAGGGCCAAGATGG
AGACTTCTAGTGAAGCTTCCAGCAACAAGAAGCCTCTGAAGGAGAGCAAGAGGAGCAGGGACGAAGAAGC
CCAGCAGGAATATCAGGACACCCAGCTTCTAATGCCATTGCTGTCAAGGAACAGGATGCTGCATTGGGG
CATGGCCTGCAAGGGTTGGTTGCCCTCCACTGCAACATAGCAGTCCACCACCCCTGAAAGAGCCAGGAG
CCAGAGGCTTCTTGGGGTTTCTAAGTGCTCTTCCCGTCCGGTACTTCTTCAAGAAGAGCGGTACG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >MG214597 representing NM_001165919
 Red=Cloning site Green=Tags(s)

MSLKPFYTPFPETRFLHAGPNVYKFKIRYGNISIRGEEIEDKEVIVQELEDSIRAVLANMDSLQPFVTEHF
 IVFPYKSKWERSHLKFKHGESILTPYPFVFTLYIEMKWF AEDLPSGKPADDIPLVLVAETEAEEATMR
 KWKRKLMEEPSSSRQGPFRHAKMETSSASSNKKPLKESKRSRDEEAQQEYQDTPASNAIIVKEQDAALG
 HGLQGLVVPPLQHSSPPPLKEPGARGFLGFLSALFPFRYFFKKSQG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001165919

ORF Size: 768 bp

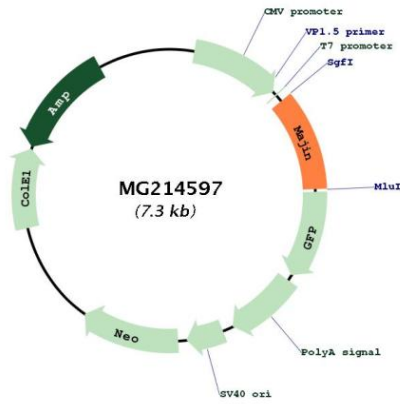
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001165919.1 , NP_001159391.1
RefSeq Size:	1613 bp
RefSeq ORF:	771 bp
Locus ID:	622554
UniProt ID:	Q9D992
Cytogenetics:	19 A
Gene Summary:	<p>Meiosis-specific telomere-associated protein involved in meiotic telomere attachment to the nucleus inner membrane, a crucial step for homologous pairing and synapsis. Component of the MAJIN-TERB1-TERB2 complex, which promotes telomere cap exchange by mediating attachment of telomeric DNA to the inner nuclear membrane and replacement of the protective cap of telomeric chromosomes: in early meiosis, the MAJIN-TERB1-TERB2 complex associates with telomeric DNA and the shelterin/telosome complex. During prophase, the complex matures and promotes release of the shelterin/telosome complex from telomeric DNA. In the complex, MAJIN acts as the anchoring subunit to the nucleus inner membrane. MAJIN shows DNA-binding activity, possibly for the stabilization of telomere attachment on the nucleus inner membrane.[UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for MG214597