

Product datasheet for **RN205435**

Majin (NM_001024291) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Majin (NM_001024291) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Majin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN205435 representing NM_001024291 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTTTAAACCATTACCTACCCATTTCCAGAGACGAGGTTCTTCATGCAGGAACCAATGTGTATA
AGTTCAAATCAGATATGGCAACAGTATCAGAGGAGAAGAAATAGAGGATAAGGGAGTCATCCAGGA
GCTGGAGGATTCTATCCGGGCAGTCTTAGCAAACATGGACAGCCTGCAGCCCTTCGTTACAGAACTTC
ATTGTGTTCCCTATAAAAGCAAATGGGAGAGAGTTTCCACCTGAAGTTTAAACATGGAGAAATCATCC
TGACTCCCTACCGTTTGTATTTACTCTCTACATAGAGATGAAATGCTTTGCTGAAAGTCTGCCTTCGGG
GAAACCAACAGATGATATTCCTCTTGAGTTGGTCCTAACTGCGAAGGAAGCAGAAGAAGCTACAATGAGG
AAACGGAACCTCATGGAAGAGCCAGCACCCCTAGCAGGCCAGGGCCACACAGGGCCAAGATGGAGACAT
GGAGTGAAGCTTCCAGCACTAAGAAGGCTCTGAAGGAGCACAAGAGGAGCTGGGGTGAAGACTCCCAGCA
GGATACCCAGCCTCAGATTCCTGCTGTACGGAGCAGGATCCTATGTTGGGGCATAGCCTGCCAGGG
CTGTTGTCCCTCCACTGGAACACAGCAATCCACCACCTGAAAGAGCCAGCAGCCAGAGGCTTCTTGG
GGTTTCTAAGCGCCCTCTCCCATTTTCGTAATCTTTCAGGAAGAGCACTCAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001024291
Insert Size:	756 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_001024291.1, NP_001019462.1</u>
RefSeq Size:	1585 bp
RefSeq ORF:	756 bp
Locus ID:	499306
UniProt ID:	<u>Q6AYM7</u>
Cytogenetics:	1q43
Gene Summary:	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]