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Product datasheet for RC219046

C11orf85 (MAJIN) (NM_001037225) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C11orf85 (MAJIN) (NM_001037225) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C11orf85
Synonyms:	C11orf85
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC219046 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTTTAAAACCCTTTACCTACCCGTTTCCAGAGACGAGGTTTCTTCATGCAGGACCCAATGTGTATA
AATTCAAAATCAGATATGGGAAGAGTATCAGAGGAGAAGAGATAGAAAATAAGGAAGTCATCACCCAGGA
GCTGGAGGATTCTGTCCGCGTGGTCTTGGGAAACTTGGACAATCTTCAGCCCTTTGCTACAGAACACTTC
ATTGTATTTCCCTATAAAAGCAAATGGGAGAGAGTTTCCCACCTGAAATTCAAACATGGGGAAATTATCT
TGATCCCCTACCCATTTGTTTTTACTCTATATGTGGAGATGAAATGGTTCCATGAAAACCTGTCACCTGG
GAAACCAATAAGTGACAGTCCTCTTGGGTTGGTCCCAGTTGAGAAGAAAGCAGTAGGAGCTGTGATGAGG
AAACGAAAACACATGGACGAGCCCAGCTCCCCCAGCAGGCCAGGGCTGGACAGAATAGGGAAAGAAAAAC
CCAACAAGGATTGCAGGAGACTCTGGCCTCTGATATCACTGATGTCCAGAAACAAGATTCTGAGTGGGGA
CACAGCCTGCCAGGGCGAATTGTCCCACCCCTGCAGCACAACTCACCTCCACCTAAGGAGCGAGCAGCCA
CCGGCTTCTTTGGGTTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC219046 protein sequence
Red=Cloning site Green=Tags(s)

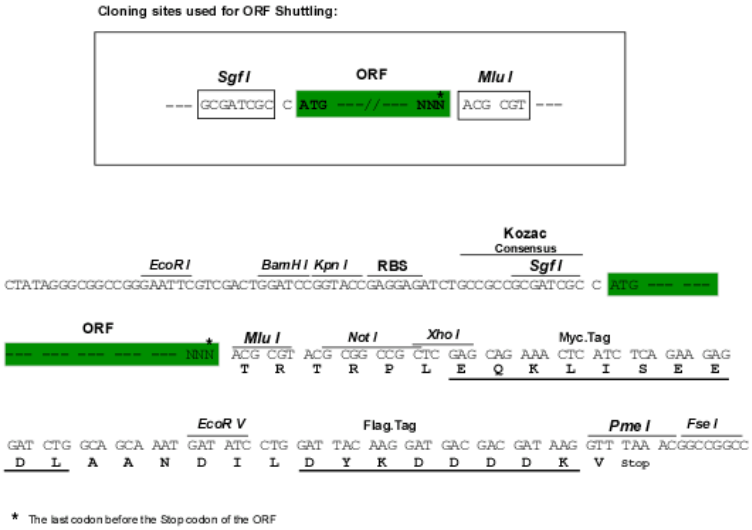
MSLKPFTYPFPETRFLHAGPNVYKFKIRYGKSIRGEEIENKEVITQELEDSVRVVLGNLDNLQPFATEHF
IVFPYKSKWERVSHLKFKHGEIILIPYPFVFTLYVEMKWFHENLSPGKPISDSPLGLVPVEKKAVGAVMR
KRKHMDEPSSPSRPGLDRIGKEKPNKDCRRLWPLISLMSRNKILSGDTACQGELSHPCSTTHLHLRSEQP
PASLGF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6446_g10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001037225

ORF Size: 648 bp

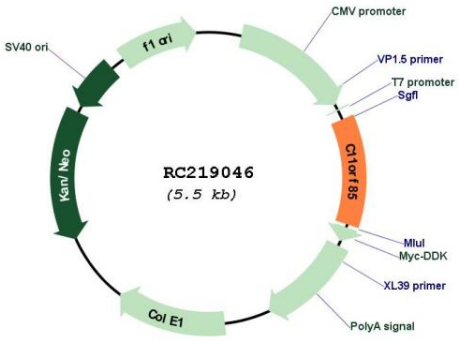
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

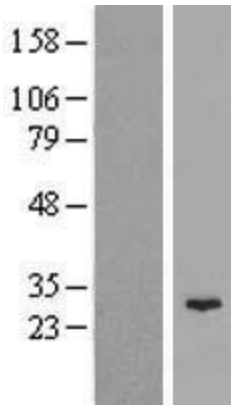
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001037225.3
RefSeq Size:	1291 bp
RefSeq ORF:	651 bp
Locus ID:	283129
UniProt ID:	Q3KP22
Cytogenetics:	11q13.1
MW:	24.8 kDa
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]

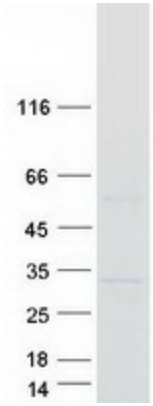
Product images:



Circular map for RC219046



Western blot validation of overexpression lysate (Cat# [LY421932]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219046 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MAJIN protein (Cat# [TP319046]). The protein was produced from HEK293T cells transfected with MAJIN cDNA clone (Cat# RC219046) using MegaTran 2.0 (Cat# [TT210002]).