

Product datasheet for **MR204733**

Rcn1 (NM_009037) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rcn1 (NM_009037) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rcn1
Synonyms:	Rcn
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204733 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGCGCGCGGTGGCGCTTGGGACTCGCCCTGGGGCTGCTGCTGGCGCTGGTGTGGCGCTGCGGGCCA
 AGCCACGGTGCGCAAGGAGCGCGTGGTTCGGCCGGACTCAGAGCTGGGCGAGCGCCGCCGAGGACAA
 CCAGAGCTTCCAGTACGATCATGAGGCCTTCTGGGCAAGGAGGACTCCAAGACCTTCGATCAGCTAAGC
 CCGGACGAGAGCAAGGAGAGGCTGGGGAAAATTGTGGATCGAATTGACAGTGATGGTGTGGCCTTGTTA
 CTACTGAGGAGTGAACTTTGGATCAAACGGGTACAGAAAAGATACATCTATGATAATGTCGCTAAAGT
 CTGGAAGGATTATGATAGGGACAAAGACGAAAAGATCTCCTGGGAAGAATACAAGCAGGCCACCTATGGC
 TACTACCTGGGAAACCCCGCTGAATTCATGATAGTTCTGATCACCACACCTTTAAAAAGATGCTGCCAC
 GAGATGAGAGGAGGTTTAAGGCTTCAGACCTTGACGGCGACCTGACAGCTACTCGGGAGGAGTTCCTGCTG
 CTTTCTGCACCCAGAGGAGTTTGAACATATGAAGGAGATTGTAGTCCTGGAAACCTGGAGGACATCGAC
 AAGAACGGGGATGGTTTTGTGGACCAGGATGAGTACATCGCGGACATGTTTTCCACGAGGACAATGGCC
 CTGAGCCAGACTGGGTTTTGTCTGAACGGGAGCAGTTCAACGACTTCCGAGATCTGAACAAGGATGGGAA
 GCTGGACAAGGATGAGATTCGCCACTGGATCCTCCCTCAGGACTACGACCATGCGCAGGCCGAGGCCCGG
 CATCTGGTGTACGAGTCAGACAAAAACAAGGACGAGATGCTGACCAAGGAGGAGATTCTGGACAACCTGGA
 ACATGTTTGTGGGAAGCCAAGCTACCAACTACGGGGAAGACCTGACCAAAAATCATGATGAACCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >MR204733 protein sequence
Red=Cloning site Green=Tags(s)

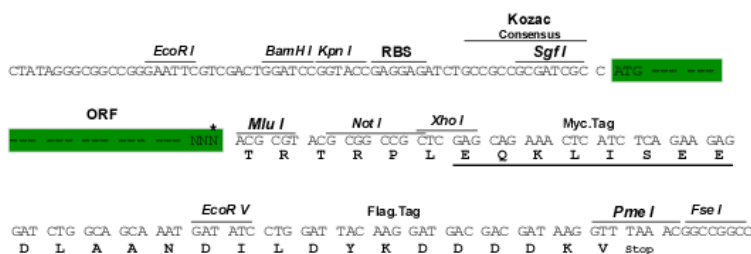
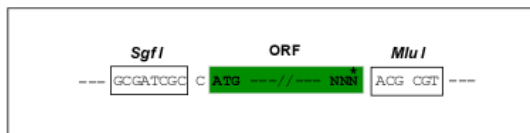
MARGGRLGLALGLLLALVLALRAKPTVRKERVVRPDSSELGERPPEDNQSFQYDHEAFLGKEDSKTFDQLS
PDESKERLGKIVDRIDSDGDLVTTEELKLWIKRVQKRYIYDNVAKVWKDYDRDKDEKISWEEYKQATYG
YYLGNPAAEFHDDSHHTFFKKMLPRDRERFKASDLGDGLTADREEFTAFLLHPEEFEHMKEIVVLETLIEDID
KNGDGFVDQDEYIADMFSHEDNGPEPDVWLSEREQNDFDRFLNKGDKLKDKEIRHWILPQDYDHAQAEAR
HLVYESDKNKDEIMLTKEEILLDNWNMFVGSOATNYGDLTKNHDL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 009037

ORF Size: 975 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_009037.2](#), [NP_033063.1](#)

RefSeq Size: 3063 bp

RefSeq ORF: 978 bp

Locus ID: 19672

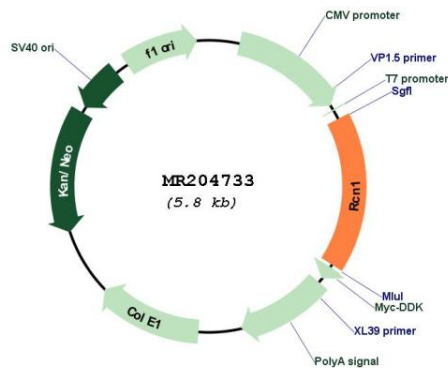
UniProt ID: [Q05186](#)

Cytogenetics: 2 55.18 cM

MW: 38.1 kDa

Gene Summary: May regulate calcium-dependent activities in the endoplasmic reticulum lumen or post-ER compartment.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204733