

Product datasheet for **MR228436**

Rcan2 (NM_001286654) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Rcan2
Synonyms:	Csp2; Dscrlll; MCIP2; ZAKI-4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >MR228436 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCAGCCCCTAGCATGGACTGTGATGTTTCCACTCTGGTCGCCTGTGTGGTGGATGTGGAGGTCTTTA
CCAATCAGGAGGTTAAGGAAAAATTCGAGGGACTGTTCCGGACCTATGATGAATGTGTGACGTTCCAGCT
GTTTAAGAGTTTCCGACGGGTTCGAATAAATTCAGCCATCCCAATCTGCAGCCCCTGCCCGGATAGAG
CTTCATGAGACTCAGTTCAGAGGGAAGAAGCTAAACTCTACTTCGCCCAGGTCCAGACCCAGAGACAG
ATGGAGACAAACTGCATTGGCACCTCCACAGCCTGCCAAACAGTTCCTCATCTCACCCCTTCATCTCC
TCCTGTTGGCTGGAAGCCTATCAGCGATGCCACACCACTCCTCAACTATGACCTTCTTTATGCTGTGGCC
AACTAGGACCAGGAGAGAAATATGAGCTGCACGCTGGAAGTCTACACCGAGCGTCGTGGTGCATG
TGTGTGACAGCGACATGGAGGAGGAGGAGGCCAAAGACTTCCCAAGCCAAAAATCATCCAGACCCG
GCGTCCCGGCTGCCACCCTCCGTGTCCAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228436 protein sequence
Red=Cloning site Green=Tags(s)

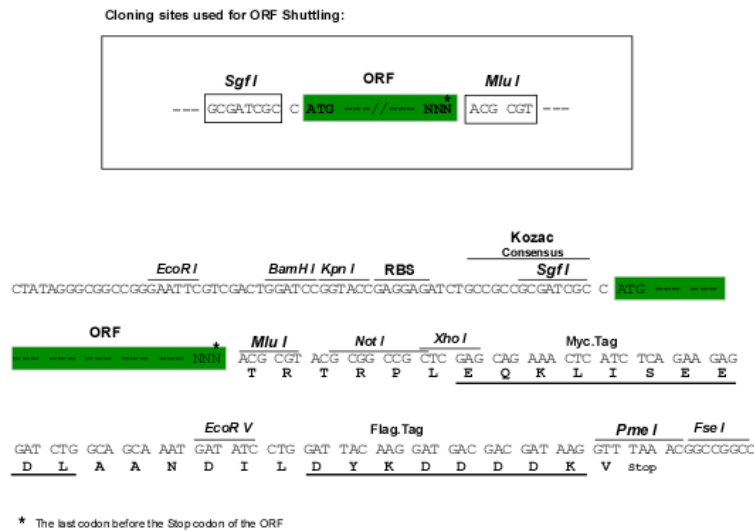
MPAPSMDCDVSTLVACVVDVEVFTNQEVKEFGLFRITYDECVTFLFKSFRRVRINFSPKSAARARIE
LHETQFRGKLLKLYFAQVQTPETDGLHLAPPQPAKQFLISPPSSPPVGWKPISDATPVLNYDLLYAVA
KLGPGEKYLHAGTESTPSVVHVCDSDMEEEEDPKTSPKPKIIQTRRPLPPSVSN

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001286654

ORF Size: 591 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_001286654.1](#), [NP_001273583.1](#)

RefSeq Size: 3107 bp

RefSeq ORF: 594 bp

Locus ID: 53901

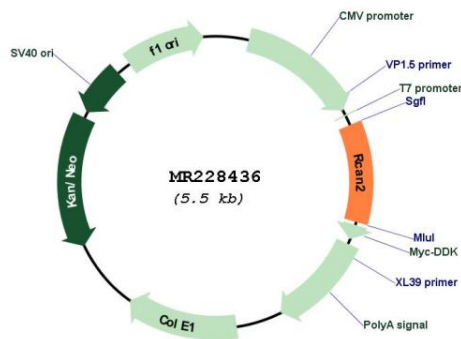
UniProt ID: [Q9JHG2](#)

Cytogenetics: 17 19.77 cM

MW: 22 kDa

Gene Summary: Inhibits calcineurin-dependent transcriptional responses by binding to the catalytic domain of calcineurin A. Could play a role during central nervous system development.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR228436