

Product datasheet for **RR214962**

Rcan1 (NM_153724) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rcan1 (NM_153724) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Rcan1
Synonyms: Dscr1; Mcip1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR214962 representing NM_153724
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCATTTTAGGGACTTTAACTACAATTTAGCTCCCTGATTGCCTGTGTGGCAAACGGTGATGTCTTCA
GCGAAAGTGAGACCAGGGCCAAATTTGAATCCCTCTTCAGGACGTATGACAAGGACATCACCTCCAGTA
TTTTAAGAGCTTCAAGCGTGTCCGAATAAACTTCAGCAACCCCTGTCTGCGGCGGACGCCAGGCTGCAG
CTGCATAAGACAGAGTTCCTGGGAAGGAGATGAAACTGTACTTTGCCAGACTTTACACATAGGAAGTT
CACACCTGGCTCCGCCAATCCAGACAAACAGTTTCTCATCTCTCCCTGCCTCTCCACCTGTTGGCTG
GAAACAAGTAGAAGACGCTACCCAGTCATAAACTACGATCTTTTATATGCTATCTCCAAGCTGGGACCA
GGAGAGAAGTACGAGCTACACGCAGCGACAGACACCACGCCAGCGTGGTGGTCCACGTGTGTGAGAGTG
ACCAAGAGGAGGAGGAGGAGGAGGAGGAGATGGAGAGAATGAAGAGACCCAAGCCAAAAATCATCCA
GACTCGGAGGCCAGAGTACACACCCATCCACCTCAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR214962 representing NM_153724
Red=Cloning site Green=Tags(s)

MHFRDFNYNFSSLIACVANGDVFSESETRAKFESLFRTYDKDITFQYFKSFKRVRINFNPLSAADARLQ
LHKTEFLGKEMKLYFAQTLHIGSSHLAPPNPKQFLISPPASPPVGWKQVEDATPVINYDLYAISKLG
GEKYELHAATDTPSVVVHVCESDQEEEEEEEEEMERMKRKPKEIIQTRRPEYTPIHLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

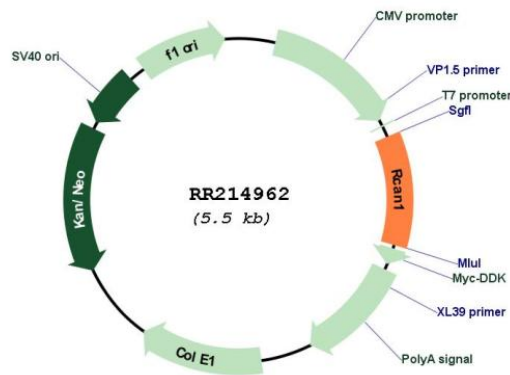
Restriction Sites: SgfI-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_153724

ORF Size: 597 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.

RefSeq: [NM_153724.2](#), [NP_714946.2](#)

RefSeq Size: 2165 bp

RefSeq ORF: 600 bp

Locus ID: 266766

UniProt ID: [Q6IN33](#)

Cytogenetics: 11q11

MW: 22.9 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]