

Product datasheet for **RR207309**

Cant1 (NM_144754) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cant1 (NM_144754) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Cant1
Synonyms: srapy
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR207309 representing NM_144754
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCCATCCAGCCCTTTGACCAGCGGGAATGGAATGAGCCTATGCACTCCCTCCGGATCAGTGTAGGGG
GCCTTCCAGTGTGGCATCCATGACCAAGGCCACGGACCCTCGTTCCGTCGCCGCTGGAGGGTATTCT
GACGTCTTTGTGGTGTGCCCTCTGGCTGTGTATTCCCACCATCAGACCCAGTATCGGGCAGG
CCCCCATCCACAACGCACAACTGGAGGCTCAGGCAGGAGCGCATCTCTCAATACAATGACACCTACC
CCCTATACCCCCACAGAGGACTCCAGGTGGGATTCGGTACCGAATTGCAGTCATTGCTGACTTGGACAC
GGGTCCAAGGCCAGGAGGAGAACAACCTTGTTTAGTTACCTTAAGAAAGGCTACCTGACCTGTGGAC
AGTGGGGACAGGGTCACTGTGGAGTGGGATAAAGACCGTGGAGTCCACCTGGCAGAAAAGG
GGCGGGCATGGAGCTCTCGGACCTGATCGTCTCAACGGGAACTCTACTCTGTGGATGACCGCACGGG
GGTCATCTACCAGATCGAAGGTACCAAAGCAGTGCCTGGGTGATCCTTTCTGATGGCGATGGAGCTGTG
GAGAAGGGCTTCAAAGCGAATGGCTGGCTGTGAAGGACGAGCATCTGTACGTGGTGGCTGGCCAGGGG
AGTGGACGACCACAACGGGGAGGTGGTGAACGAGAACCCTGAGTGGTGAAGGTGGTGGCCACAGGGG
CAGTGTGGAACACGAGAACTGGGTGTCCAGCTACAATGCCTGAGAGCTGCCGCAGGGATCCAACGCCA
GGCTACCTCATTGATGAGTCCGCTGCTGGAGCGACACTGCAGCGCTGGTTCTTCTGCCACGACGGG
CGAGCCACGAGCGCTACAGCGAAAGGGAGGACGAGCGAAAGGGCAGCAACCTGCTGCTGAGCGCAGCCCA
GGACTTCAGGGACATCTCTGTGAGGCAAGTGGGGCGCTGGTCCCCACCCATGGCTTCTCATCTTCAAG
TTCATCCCAACCGGATGACCAGATCATCGTGGCTCTCAAGTCAGAAGAGGACAATGGCAGGATTGCCA
CCTATGTCATGGCCTTACGCTGGACGGCCGCTTCTGCTCCAGAGACCAAGATCGGCAGTGTGAAGTA
TGAAGGAATAGAATTCATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RR207309 representing NM_144754
 Red=Cloning site Green=Tags(s)

MPIQPFQREWNEPMHSLRISVGGLPVLASMTKATDPRFRPRWRVILTSFVGAALLWLLYSHHQTPVSGR
 PPIHNAHNWRLRQERISQYNDTYPLSPQRTPGGIRYRIAVIADLDTGSKAQEENTWFSYLKKGYLTLSD
 SGDRVSVWEDKDRGVLESHLAEKGRGMELSDLIVFNGKLYSVDRTGVIYQIEGTKAVPWVILSDGDGAV
 EKGFKAEWLAVKDEHLYVGGLGKEWTTTTTGEVNVNPEWVKVVGHRGSVEHENWVSSYNALRAAAGIQPP
 GYLIIHESACWSDTLQRWFLLPRRASHERYSEREDERKGSNLLLSAAQDFRDISVRQV GALVPTHGFSFK
 FIPNTDDQIIIVALKSEEDNGRIATYVMAFTLDGRFLLPETKIGSVKYEIEFI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

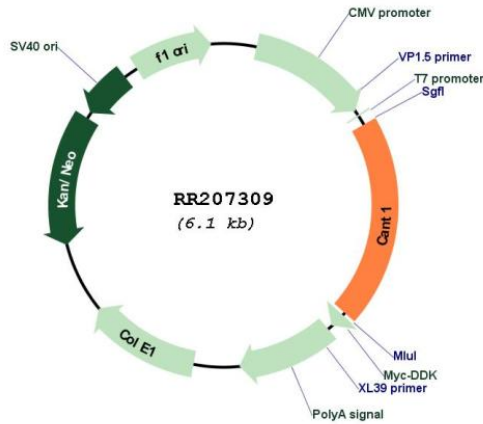
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_144754

ORF Size:	1209 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:	<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:	NM_144754.2 , NP_653355.1
RefSeq Size:	2701 bp
RefSeq ORF:	1212 bp
Locus ID:	246272
UniProt ID:	Q8K4Y7
Cytogenetics:	10q32.3
MW:	45.7 kDa
Gene Summary:	hydrolyzes nucleoside 5'-diphosphates in the order UDP >GDP = IDP >>>CDP but not ADP, may be involved in glycosylation reactions related to quality control in the endoplasmic reticulum [RGD, Feb 2006]