

Product datasheet for **RR208842**

Rer1 (NM_001039012) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rer1 (NM_001039012) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Rer1
Synonyms: RGD1306324
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR208842 representing NM_001039012
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTCTGAAGGGACAGTGTGGAGACTCTGTCCATGGGAAGCCCTCAGTGGTGTACAGATTTTTCTCAC
GGCTTGGACAGATTTATCAGTCCTGGCTGGACAAATCTACCCCTACACAGCTGCCGGTGGTCTGTGAC
ACTGGGCTGAGTTTTGTCTACATGATTAGAGTTACCTGTTACAAGTTGGTACATTGTGACCTACGCC
TTGGGAATTTACCACCTAAACCTTTTCATAGCGTTCCTTTCTCCCAAAGTGGACCCTTCCTTGATGGAA
ACTCAGATGATGGCCCTTCAATACCAACAAACAAAATGAGGAGTTTCGCCCTTCATTGGAAGGCTTCC
AGAATTCAAATTTGGCATGCGGCTACAAAAGGCATTCTTGTGGCTATGATCTGTACCTCTTTGAGGCT
TTCAACGTCCTCGTGTCTGGCCGATCCTGGTGTACTTTCATCATGCTTTTCTGTATCACAATGAAGA
GGCAAATAAAGCACATGATTAATACCGGTACATACCATTACACACGGGAAGAGGAGATACAAAGGAA
GGAGGACGTGGCAAGACATTTGCTAGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR208842 representing NM_001039012
Red=Cloning site Green=Tags(s)

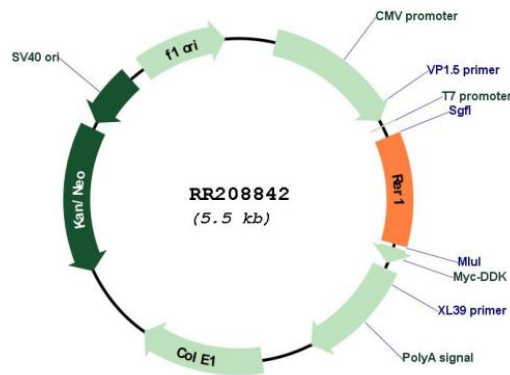
MSEGDSVGDVSVHGKPSVVYRFFSRLGQIYQSWLDKSTPYTAVRWVVTGLSFFVYMIRVYLLQGWYIVTYA
LGIYHLNLFIAFLSPKVDPSLMEDSDDGPSLPTKQNEEFRPFIRRLPEFKFWHAATKGILVAMICTFFEA
FNVPVFWPILVMYFIMLFCITMKRQIKHMIKYRYIPFTHGKRRYKGEDVGKTFAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



Cloning Scheme:

Plasmid Map:


ACCN: NM_001039012

ORF Size: 588 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_001039012.1](#), [NP_001034101.1](#)

RefSeq Size: 1361 bp

RefSeq ORF: 591 bp

Locus ID: 298675

UniProt ID: [Q498C8](#)

Cytogenetics: 5q36

MW: 23 kDa

Gene Summary: Involved in the retrieval of endoplasmic reticulum membrane proteins from the early Golgi compartment.[UniProtKB/Swiss-Prot Function]