

Product datasheet for **RR214104**

Ren (NM_012642) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ren (NM_012642) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ren
Synonyms: RATRENAA; Ren1; RENAA
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RR214104 representing NM_012642
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGCGGGAGGAGGATGCCTCTCTGGCACTCTTGTGCTCTGGACCTCTTGTAGCTTCAGTCTCCCGA
 CAGACACAGCCAGCTTTGGACGAATCTTGCTCAAGAAAATGCCCTCGGTCCGGGAAATCCTGGAGGAGCG
 GGGAGTAGACATGACCAGGATCAGTGTGAATGGGGTGAATTCATCAAGAAGTCTTCTTTACCAATGTT
 ACCTCCCCGTGGTCTCACCACTACTTGGATACCCAGTACTATGGTGAGATCGGCATTGGTACCCCAT
 CCCAGACCTTCAAAGTCATCTTTGACACGGGTTACGCCAACCTCTGGGTGCCCTCCACCAAGTGTGGTCC
 CCTCTACACTGCCTGTGAGATTCACAACCTCTATGACTCCTCGGAATCCTCTAGCTACATGGAGAATGGG
 ACTGAATTCACCATCCACTATGGATCAGGGAAGGTCAAAGGTTTCTCAGCCAAGATGTGTTAACTGTGG
 GTGGAATCATTGTGACACAGACCTTTGGAGAGGTACCCGAGCTGCCCTGATACCCTTATGCTGGCCAA
 GTTTGACGGGGTCTGGGCATGGGCTTCCCTGCTCAGGCTGTTGATGGAGTATCCCTGTCTTCGACCAC
 ATTCTCTCCAGAGGGTCTAAAGGAGGAAGTGTCTTCTGTCTACTACAGCAGGGAGTCCCACCTGCTGG
 GGGCGAAGTGGTGTGGGAGGCAGTGACCCTCAACATTACCAGGGCACTTTACTACGTGAGCATCAG
 CAAGCCGGCTCCTGGCAGATCACCATGAAGGGGTCTCTGTGGGCCTGCCACCTTGTGTGTGAGGAG
 GGCTGTATGGCAGTGGTGGACACTGGCACATCTATATCTCGGGCCCTACCAGTCCCTGCAGTTGATCA
 TGCAAGCCCTGGGAGTCAAAGAGAAGAGAGCAAATAATTACGTTGTGAAGTGTAGCCAGGTACCCACCT
 CCCCAGACATCTCTTCTACCTGGGAGGCAGGACCTACACTCTCAGCAACATGGACTATGTGCAAAAAGAA
 TCCCTTCAGGAACGATGACCTGTGCATACTGGCTCTCCAAGGCCTGGACATCCCACCACCCACTGGCCTG
 TCTGGGTCTGGGTGCCACCTTCATCCGCAAGTTCTATACAGAGTTCGACCGGCATAACAATCGCATCGG
 GTTCGCCTTGCCCGC

ACGGTACGGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RR214104 representing NM_012642
 Red=Cloning site Green=Tags(s)

MGGRRMPLWALLLLWTSCSFSLPTDTASFGRILLKKMPSVREILEERGVDMTRISAEWGEFIKSSFTNV
 TSPVVL TNYLDTQYYGEIGIGTPSQTFKVI FDTGSANLWVPSTKCGPLYTACEIHNLYDSSESSSYMENG
 TEFTIHYGSGKVKGFLSQDVVTVGGIIVTQTFGEVTEPLIPFMLAKFDGVLGMGFPAQAVDGVIPVFDH
 ILSQRVLKEEVFSVYYSRESHLLGGEVVLGGSDPQHYQGNFHYVSIKAGSWQITMKGVSVGPATLLCEE
 GCMNAVDTGTSYISGPTSSLQLIMQALGVKEKRANNYYVNCSEQVPTLPDISFYLGGRTYTLNMDYVQKN
 PFRNDLCLALQGLDIPPPTGPVWVLGATFIRKIFYTEFDRHNNRIGFALAR

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_012642

ORF Size: 1206 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_012642.4](#), [NP_036774.4](#)

RefSeq Size: 1451 bp

RefSeq ORF: 1209 bp

Locus ID: 24715

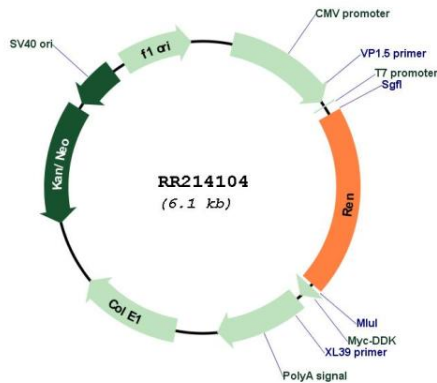
UniProt ID: [P08424](#)

Cytogenetics: 13q13

MW: 44.3 kDa

Gene Summary: catalyzes the cleavage of a Leu-Xaa bond in angiotensinogen to generate angiotensin [RGD, Feb 2006]

Product images:



Circular map for RR214104