

Product datasheet for **RR211738**

Renbp (NM_031095) Rat Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Renbp (NM_031095) Rat Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Renbp |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RR211738 representing NM_031095 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGAAGGAACGGGAGACACTGCAGGTCTGGAAGCAACGTGTGGGACAAGAGCTCGATTCTGTGATCG
CTTTCTGGATGGAGCATTCCCATGACCAGGAACACGGGGCTTCTTCACATGCCTTGCCCGCATGGGCA
GGTATATGATCACCTCAAATATGTCTGGCTGCAGGGGAGGCAGGTATGGATGATTGTGCTTATAACCGC
ACTTTTGAGCGCTTCCGCCGTGTCGAGCTTCTGGATGCAGCAAAAGCAGGTGGTGAATTTTGTGAGTT
ATGCCCGGTGGCACCGCCTGGCAAGAAATGTGCTTTTGTGCTGACCCAGGACGGCCCTCCAGTGAAGGT
GCAGCGGACCATTTTCAGCGAGTGCTTTTACACCATGGCCATGAATGAAGTGTGGAAAGTAAACAGGGGAA
ATGCATTATCAGAGAGAAGCCGTAGAGATGATGGATCAGATCATCCACTGGGTAAGGGAGGACCCAGCTG
GGCTGGGCCGGCCTCAGCTCTCGGGAACACTGGCCACAGAGCCCATGGCAGTGCCCATGATGCTGCTCAA
CCTGGTGGAGCAGCTTGGAGAAGAAGTGGAGAGATGACCGACAAGTATGCAGAACTAGGGGACTGGTGT
GCCCATAGGATTCTCAGCATGTCCAGAGGGATGGACAAGTTGTACTGGAGAATGTATCAGAGGATGGCA
AAGAGCTCCCTGGTTGCCTTGAAGACATCAGAACCCAGGCCACACACTGGAAGCTGGCTGGTTTCTGCT
CCAGTATGCCCTCAGGAAAGGTGATCCCAAATCAAAGGCACATTATTGACAAGTTTCTTACTGCT
TTCCACTCTGGATGGGACCCTGAGCACGGAGGCCCTTCTACTTCCAGGATGCTGATGATCTCTGCCCTA
CCAGCTGGAATGGAACATGAAGCTGTGGTGGCCACACACTGAAGCCATGATTGCCTTCCATGGGTTA
CAGGGACAGCGGGGACCCAGCCTTGTGAACCTTCTACCAAGTGGCTGAATACACCTTCCACCAGTTT
CGTGATCTGAGTACGGGGAATGGTTTGGCTACCTGAACCAAGAGGGAAAGGTGGCCCTTACCATCAAAG
GAGGTCCTTTAAAGGCTGCTTCCATGTGCCGCGTGCCTGGCCATGTGCGAGCAGATTTTGGGAGCCCT
ACTCCAACGCCTTGGGCCCGCCCCCTCGGCTCCTTGGCCGCTGTCCCCTCGCGAAGGCTCGAAAAT
CCAACGCCTTGGGCCCGCCCCCTCGGCTCCTTGGCCGCTGTCCCCTCGCGAAGGCTCGAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RR211738 representing NM_031095
Red=Cloning site Green=Tags(s)

MEKERETLQVWKQVRVQELDSVIAFWMEHSHDQEHGGFFTCLGRDQGVVDHLKYVWLQGRQVWMYCRLYR
 TFERFRVELLDAAKAGGEFLLSYARVAPPKGCFAVLTDGRPVKVRTIFSECFYTMAMNELWKVTGE
 MHYQREAVEMMDQIIHWVREDPAGLGRPQLSGTLATEPMAVPMMLLNLVEQLGEEDEEMTDKYAELGDC
 AHRILQHVQRDQGVVLENVSEDKELPGCLGRHQNPHTLEAGWFLLYALRKGDPKLQRHIIDKFLLLP
 FHSGWDPHEGGLFYFQDADDLCPTQLEWNMKLWPHTEAMIAFLMGYRDSGDPALLNLFYQVAEYTFHQF
 RDPEYGEWFGYLNQEGKVALTIKGGPFKGC FHVPRCLAMCEQILGALLQRLGPAPLGLSPAVPTREGSKT
 PTPWARPPRLARCPHSRRLE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1670_e02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_031095

ORF Size: 1257 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 Size: 1292 bp

RefSeq ORF: 1260 bp

Locus ID: 81759

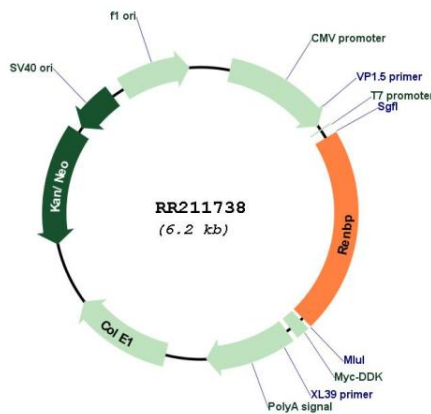
UniProt ID: [P51607](#)

Cytogenetics: Xq37

MW: 48.4 kDa

Gene Summary: has N-acetyl-D-glucosamine 2-epimerase activity; inhibits renin activity [RGD, Feb 2006]

Product images:



Circular map for RR211738