

Product datasheet for **MR206371**

Renbp (NM_001164704) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Renbp (NM_001164704) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Renbp
Synonyms: Age; Rnbp
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR206371 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGAAGGAACGGGAGACACTGCAGGTCTGGAAGAAGCGTGTGGAACAAGAGCTTGATCGTGTGATCG
CTTTCTGGATGGAGCATTCCCATGACCAGGAACACGGGGCTTCTCACATGTCTTGGCCGTGATGGGAA
GGTATGGATGTATTGTCGCTTATACCGCAGTTTTGAGCGCTTCCGCCGTGTTGAGCTTCTGGATGCAGCA
AGAGCAGGTGGTGAATTTTTGCTGCGTTATGCCCGGGTGGCACCCTGGCAAGAAATGTCTTTTGTGC
TGACTCGGGATGGCCGGCCAGTGAAGGTGCAGCGGACCATTTTCAGCGAGTGCTTCTACACCATGGCCAT
GAATGAACTGTGGAAAGTAACGGGGGAAGTGCCTTATCAGAGTGAAGCCATAGAGATGATGGATCAGATC
ATCCACTGGGTACGGGAGGACCCGGCTGGGTGGGCCGGCCTCAGCTCTCAGGGGCACTGGCCACAGAGC
CCATGGCAGTGCCCATGATGCTGCTCAGCCTGGTGGAGCAGCTTGGAGAAGAAGATGAGGAGCTGACCAA
CATGTATGCAGAACTAGGGGACTGGTGTGTCCACAGGATCTTCAGCATGTCCAGAGGGATGGACAAGTT
GTACTGGAGAATGTATCAGAGGATGGAAAAGAGCTTCTGGTTGCCTTGGAAAGACATCAGAACCCAGGCC
ACACACTGGAAGCTGGCTGGTTTTCTGCCAGTATGCCCTCAGGAAAGGTGACCCCAAACCTCGAATGCA
CATCATTGACAAGTTTCTTATTGCCTTCCACTCTGGATGGGACCCTGAACATGGAGGCCTCTTCTAC
TTCCAGGATGCGGATGGTCTCTGCCCTACCCAGCTGGAATGGAACATGAAGCTGTGGTGGCCACACAGTG
AAGCCATGATTGCCTTCTCATGGTTATAGTGACAGTGGGGACCCTGCCTTGCTGCATCTCTTCTACAA
GGTGGCTGAGTACACCTCCGCCAGTTTCGTGATCCTGAGTATGGGGAATGGTTTGGCTACCTGAACCAA
GAGGGAAGGTGGCCCTCACCATCAAGGGAGGTCTTTTTAAAGGCTGCTTCCATGTGCCGCGGTGCCTGG
CCATGTGCGAGCAGATTCTAGGAGCCCTACTCCAACGCCTTGAGCCCGCCCCCTCGACTCTCGCCCGC
TGCTCTACCCATGAAGGCTCGAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >MR206371 protein sequence
Red=Cloning site Green=Tags(s)

MEKERETLQVWKKRVEQELDRVIAFWMEHSHDQEHGGFFTCLGRDGKVVWYCRLYRSFERFRRELLDAA
 RAGGELLRYARVAPPKKAFLVTRDGRPVKVRTIFSECFYTMAMNELWKVTGEVRYQSEAIEMMDQI
 IHWVREDPAGLRPQLSGALATEPMAVPMMLLSLVEQLGEEDEELTNMYAELGDWCVHRILQHVQRDQV
 VLENVSEDGKELPGCLGRHQNPGHTEAGWFLQYALRKGDPKLRMHIIDKFLLLPFHSGWDPEHGGLFY
 FQDADGLCPTQLEWNMKLWPHSEAMIAFLMGYSDSGDPALLHLFYKVAEYTFRQFRDPEYGEWFGYLNQ
 EGKVALTIKGGPFKGFHVPRCLAMCEQILGALLQRLPAPLDSSPAVSTHEGSK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

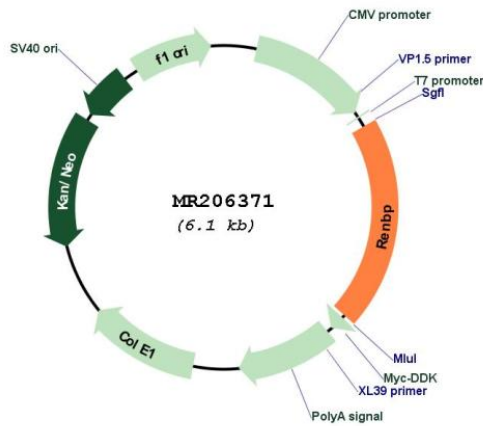
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001164704

ORF Size:	1218 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 Size:	1392 bp
RefSeq ORF:	1251 bp
Locus ID:	19703
UniProt ID:	P82343
Cytogenetics:	X 37.49 cM
MW:	46.7 kDa
Gene Summary:	Catalyzes the interconversion of N-acetylglucosamine to N-acetylmannosamine. Binds to renin forming a protein complex called high molecular weight (HMW) renin and inhibits renin activity. Involved in the N-glycolylneuraminic acid (Neu5Gc) degradation pathway. [UniProtKB/Swiss-Prot Function]