

Product datasheet for MR220677

Renbp (NM_023132) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Renbp (NM_023132) 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: >MR220677 representing NM_023132
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGGACCTAGGACTCCTAATGTTACAGGACATGGAGAAGGAACGGGAGACACTGCAGGTCTGGAAGA
 AGCGTGTGGAACAAGAGCTTGATCGTGTGATCGCTTTCTGGATGGAGCATTCCCATGACCAGGAACACGG
 GGGCTTCTCACATGTCTTGGCCGTGATGGGAAGGTATATGATCACCTCAAATATGTTTGGCTGCAGGGG
 AGGCAGGTATGGATGTATTGTCGCTTATACCGCAGTTTTGAGCGCTTCCGCCGTGTTGAGCTTCTGGATG
 CAGCAAGAGCAGGTGGTGAATTTTTGCTGCGTTATGCCCGGTGGCACCACCTGGCAAGAAATGTGCTTT
 TGTGCTGACTCGGGATGGCCGGCAGTGAAGGTGCAGCGGACCATTTTCAGCGAGTGCTTACACCATG
 GCCATGAATGAACTGTGGAAGTAACGGGGGAAGTGCCTTATCAGAGTGAAGCCATAGAGATGATGGATC
 AGATCATCCACTGGGTACGGGAGGACCCGGCTGGGTTGGCCGGCCTCAGCTCTCAGGGGCACTGGCCAC
 AGAGCCCATGGCAGTGCCCATGATGCTGCTCAGCCTGGTGGAGCAGCTTGGAGAAGAAGATGAGGAGCTG
 ACCAACATGTATGCAGAACTAGGGGACTGGTGTGTCCACAGATTCTTCAGCATGTCCAGAGGGATGGAC
 AAGTTGTACTGGAGAATGTATCAGAGGATGGAAGAAGAGCTTCTGGTTGCCTTGGAAAGACATCAGAAACC
 AGGCCACACACTGGAAGCTGGCTGGTTTTCTGCTCCAGTATGCCCTCAGGAAAGGTGACCCAAACTTCGA
 ATGCACATCATTGACAAGTTTCTCTATTGCTTTTCCACTCTGGATGGGACCCTGAACATGGAGGCTCT
 TCTACTCCAGGATGCGGATGGTCTCTGCCCTACCCAGCTGGAATGGAACATGAAGCTGTGGTGGCCACA
 CAGTGAAGCCATGATTGCCTTCTCATGGGTTATAGTGACAGTGGGGACCCTGCCTTGTGTCATCTCTTC
 TACAAGGTGGCTGAGTACACCTCCGCCAGTTTCGTGATCCTGAGTATGGGGAATGGTTTGGCTACCTGA
 ACCAAGAGGGAAGGTGGCCCTCACCATCAAGGGAGGTCTTTTTAAGGCTGCTTCCATGTGCCCGGTG
 CCTGGCCATGTGCGAGCAGATTCTAGGAGCCCTACTCCAAGCCTTGAGCCCGCCCCCTCGACTCTCG
 CCCGCTGTCTTACCCATGAAGGCTCGAAA

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >MR220677 representing NM_023132
Red=Cloning site Green=Tags(s)

MMDLGLLMLQDMEKERETLQVWKKRVEQELDRVIAFWMEHSHDQEHGGFFTCGRDGKVVYDHLKYVWLQG
 RQVWMYCRLYRSFERFRVVELLDAARAGGEFLLRYARVAPPKKCAFVLTRDGRPVKVRTIFSECFYTM
 AMNELWKVTGEVRYQSEAIEMMDQIIHWVREDPAGLGRPQLSGALATEPMVPMMLLSLVEQLGEDEEEL
 TNMYAELGDWCVHRILQHVQRDQGVVLENVSEDKELPGCLGRHQNPGHTEAGWFLLYALRKGDPKLR
 MHIIDKFLLLPFHSGWDPEHGGLFYFQDADGLCPTQLEWNMKLWPHSEAMIAFLMGYSDSGDPALLHLF
 YKVAEYTRQFRDPEYGEWFGLYNQEGKVALTIKGGPFKGC FHVPRCLAMCEQILGALLQRLEPAPLDSS
 PAVSTHEGSK

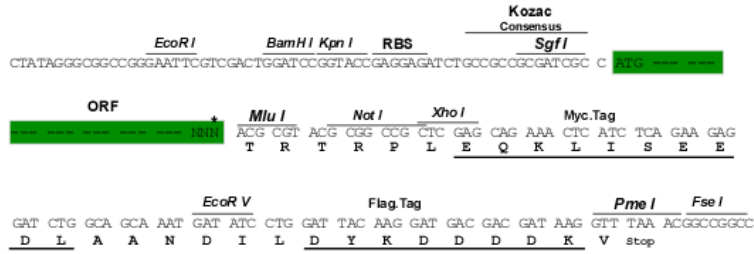
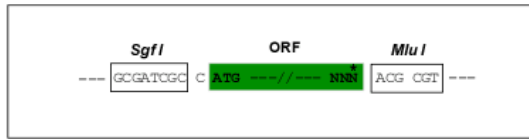
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

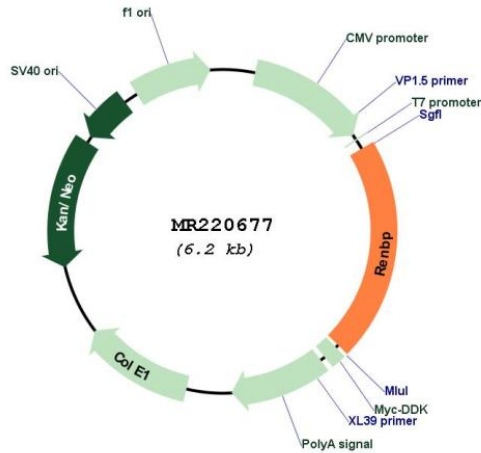
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:

NM_023132

ORF Size:	1290 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_023132.3 , NP_075621.3
RefSeq Size:	1434 bp
RefSeq ORF:	1293 bp
Locus ID:	19703
UniProt ID:	P82343
Cytogenetics:	X 37.49 cM
MW:	50.2 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]