

## Product datasheet for MC218100

### Renbp (NM\_001164704) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Renbp (NM\_001164704) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Renbp  
**Synonyms:** Age; Rnbp  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC218100 representing NM\_001164704  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGATGGACCTAGGACTCCTAATGTTACAGGACATGGAGAAGGAACGGGAGACACTGCAGGTCTGGAAGA  
AGCGTGTGGAACAAGAGCTTGATCGTGTGATCGCTTTCTGGATGGAGCATTCCCATGACCAGGAACACGG  
GGCTTCTTACATGTCTTGGCCGTGATGGGAAGGTATGGATGTATTGTCGCTTATACCGCAGTTTTGAG  
CGCTTCCGCCGTGTTGAGCTTCTGGATGCAGCAAGAGCAGGTGGTGAATTTTTCGTCGTTATGCCCGGG  
TGGCACCACCTGGCAAGAAATGTCTTTGTGCTGACTCGGGATGGCCGGCCAGTGAAGGTGCAGCGGAC  
CATTTTCAGCGAGTGCTTCTACACCATGGCCATGAATGAACTGTGGAAAGTAACGGGGGAAGTGCCTTAT  
CAGAGTGAAGCCATAGAGATGATGGATCAGATCATCCACTGGGTACGGGAGGACCCGGCTGGGTTGGGCC  
GGCCTCAGCTCTCAGGGGCACTGGCCACAGAGCCCATGGCAGTGGCCATGATGCTGCTCAGCCTGGTGA  
GCAGCTTGGAGAAGAAGATGAGGAGCTGACCAACATGTATGCAGAACTAGGGGACTGGTGTGCCACAGG  
ATTCTTCAGCATGTCCAGAGGGATGGACAAGTTGTACTGGAGAATGTATCAGAGGATGAAAAGAGCTTC  
CTGGTTGCCTTGGAAAGACATCAGAACCAGGCCACACACTGGAAGCTGGCTGGTTCTGCTCCAGTATGC  
CCTCAGGAAAGGTGACCCAAACTTCAATGCACATCATTGACAAGTTTCTCTTATTGCCTTCCACTCT  
GGATGGGACCCTGAACATGGAGGCCTTCTACTTCCAGGATGCGGATGGTCTCTGCCCTACCCAGCTGG  
AATGGAACATGAAGCTGTGGTGGCCACACAGTGAAGCCATGATTGCCTTCTCATGGTTATAGTGACAG  
TGGGGACCCTGCCTTGTGCATCTTCTACAAGGTGGCTGAGTACACCTTCCGCCAGTTTCGTGATCCT  
GAGTATGGGGAATGGTTTGGCTACCTGAACCAAGAGGGAAAGGTGGCCCTCACCATCAAGGGAGGTCCTT  
TTAAAGGTGCTTCCATGTGCCGCGGTGCCTGGCCATGTGCGAGCAGATTCTAGGAGCCCTACTCCAACG  
CCTTGAGCCCGCCCCCTCGACTCCTCGCCGCTGTCTTACCCATGAAGGCTCGAAATAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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|                               |   |
|-------------------------------|---|
| <b>Restriction Sites:</b>     | Sgfl-Mlul   |
| <b>ACCN:</b>                  | NM_001164704  |
| <b>Insert Size:</b>           | 1251 bp   |
| <b>OTI Disclaimer:</b>        | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).  |
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>       |
| <b>RefSeq:</b>                | <u><a href="#">NM_001164704.1</a></u> , <u><a href="#">NP_001158176.1</a></u>   |
| <b>RefSeq Size:</b>           | 1392 bp   |
| <b>RefSeq ORF:</b>            | 1251 bp   |
| <b>Locus ID:</b>              | 19703   |
| <b>UniProt ID:</b>            | <u><a href="#">P82343</a></u>   |
| <b>Cytogenetics:</b>          | X 37.49 cM  |
| <b>Gene Summary:</b>          | <p>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.<br/>[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 5' coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1.</p> |