

Product datasheet for **MG206371**

Renbp (BC014821) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Renbp (BC014821) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Renbp
Synonyms:	Age; Rnbp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206371 representing BC014821 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGAAGGAACGGGAGACACTGCAGGTCTGGAAGAAGCGTGTGGAACAAGAGCTTGATCGTGTGATCG
CTTTCTGGATGGAGCATTCCCATGACCAGGAACACGGGGCTTCTTACATGTCTTGCCCGTGATGGGAA
GGTATGGATGTATTGTCGCTTATACCGCAGTTTTGAGCGCTTCCGCCGTGTTGAGCTTCTGGATGCAGCA
AGAGCAGGTGGTGAATTTTGTGCGTTATGCCGGGTGGCACCACCTGGCAAGAAATGTGCTTTTGTGC
TGACTCGGGATGGCCGGCCAGTGAAGGTGCAGCGGACCATTTTCAGCGAGTGCTTCTACCCATGGCCAT
GAATGAACTGTGGAAGTAACGGGGGAAGTGCCTTATCAGAGTGAAGCCATAGAGATGATGGATCAGATC
ATCCACTGGGTACGGGAGGACCCGGCTGGGTTGGGCCGGCCTCAGCTCTCAGGGGCACTGGCCACAGAGC
CCATGGCAGTGCCCATGATGCTGCTCAGCCTGGTGGAGCAGCTTGGAGAAGAAGATGAGGAGCTGACCAA
CATGATGCAGAACTAGGGGACTGGTGTGTCCACAGGATCTTCAGCATGTCCAGAGGGATGGACAAGTT
GTACTGGAGAATGTATCAGAGGATGGAAAAGAGCTTCTGTTGCCTTGGAGACATCAGAACCCAGGCC
ACACACTGGAAGCTGGCTGGTTTCTGCTCCAGTATGCCCTCAGGAAAGGTGACCCCAAATTCGAATGCA
CATCATTGACAAGTTTCTTATTGCCTTTCCACTCTGGATGGGACCCTGAACATGGAGGCCTCTTCTAC
TTCCAGGATGCGGATGGTCTCTGCCCTACCCAGCTGGAATGGAACATGAAGCTGTGGTGGCCACACAGTG
AAGCCATGATTGCCTTCTCATGGTTATAGTGACAGTGGGACCCTGCCTTGTGCATCTTCTACAA
GGTGGCTGAGTACACCTTCCGCCAGTTTCTGTGATCCTGAGTATGGGAATGGTTTGGCTACCTGAACCAA
GAGGGAAAGGTGGCCCTCACCATCAAGGGAGGTCTTTTAAAGGCTGCTTCCATGTGCCGCGGTGCCTGG
CCATGTGCGAGCAGATTCTAGGAGCCCTACTCCAACGCCCTTGAGCCCGCCCCCTCGACTCTCGCCCGC
TGTCTCTACCCATGAAGGCTCGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206371 representing BC014821
 Red=Cloning site Green=Tags(s)

MEKERETLQVWKKRVEQELDRVIAFWMEHSHDQEHGGFFTCLGRDGKVVWYCRLYRSFERFRVELLDAA
 RAGGEFLLRYARVAPPGKKCAFVLTRDGRPVKVRTIFSECFYTMAMNELWKVTGEVRYQSEAIEMMDQI
 IHWVREDPAGLRPQLSGALATEPMAVPMMLLSLVEQLGEDEELTNMYAELGDWCVHRILQHVQRDQGV
 VLENVSEDGKELPGCLGRHQNPGHTEAGWFLLYALRKGDPKLRMHIIDKFLLLPFHSGWDPEHGGLFY
 FQDADGLCPTQLEWNMKLWPHSEAMIAFLMGYSDSGDPALLHLFYKVAEYTFRQFRDPEYGEWFGYLNQ
 EGKVALTIKGGPFKGCFFHVRCLAMCEQILGALLQRLEPAPLDSSPAVSTHEGSK

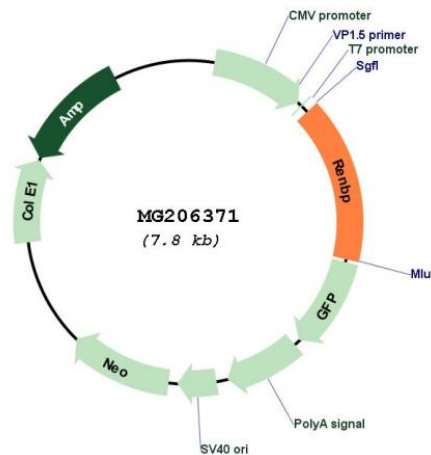
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC014821

ORF Size:	1217 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:	BC014821 , AAH14821
RefSeq Size:	1326 bp
RefSeq ORF:	1217 bp
Locus ID:	19703
Cytogenetics:	X 37.49 cM
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]