

Product datasheet for **RN214700**

Amtn (NM_001044296) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Amtn (NM_001044296) Rat Untagged Clone
Tag: Tag Free
Symbol: Amtn
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN214700 representing NM_001044296
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGAAGACCGTGGTTCTCCTGCTCTGTCTCTAGGATCAGCTCAGTCATTGCCAAGGCAGCTGAGCCCTG
CTTTGGGAGCTCCTGCAACAAAACCGACTCCAGGTCAGGTGACACCGCTAACTCAACAGCAACCAAATCA
GGTTTTCTCCTCCATAAGTCTAATACCATTAACACAGCTGCTCACTCTGGGGTCAGACCTGCCATTGTT
AACCTGCCACCATGCCACATGGCACACAGACTCCCTTTACCCTGGGACCCTGAATGGACAACAGC
AGCTGCAACCCAGATGTTGCCATTATTGTGGCACAACCTGGAGCTCAGGGCGCTCTCCTAAGCTCAGA
GGAAGTGCCTAGCCTCCCAAATCTTACGGGCTCCTATCCACCCTTGTTCCCTGGAGCCATTGAG
CCATCCGGTCAGACAGGGCTAAACCAGATGTGCAGAATGGAGCCCTTCTACAAGACAGGCAGGAGCGA
GCCCTGCCAACCAGGCAACCACTCCTGGCCACACAACCTCTGCTGTACAGATGATGACTACGAAAT
GAGCACCCCTGCAGGCCTGCAAAGGGCCACACACCACTGAGGGGACCACCATGGACCCACCAAATAGA
ACTAAGTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001044296
Insert Size: 639 bp

OTI Disclaimer: 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).



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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:	<u>NM_001044296.1</u> , <u>NP_001037761.1</u>
RefSeq Size:	1032 bp
RefSeq ORF:	639 bp
Locus ID:	689404
UniProt ID:	<u>Q3HS82</u>
Cytogenetics:	14p22
Gene Summary:	Is a promoter of calcium phosphate mineralization, playing a critical role in the formation of the compact, mineralized, aprismatic enamel surface layer during the maturation stage of amelogenesis.[UniProtKB/Swiss-Prot Function]