

Product datasheet for RR214700

Amtn (NM_001044296) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Amtn (NM_001044296) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Amtn
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR214700 representing NM_001044296
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGACCGTGGTTCTCCTGCTCTGTCTTCTAGGATCAGCTCAGTCATTGCCAAGGCAGCTGAGCCCTG
CTTTGGGAGCTCCTGCAACAAAACCGACTCCAGGTCAGGTGACACCGCTAACTCAACAGCAACCAATCA
GGTTTTTCTCCATAAGTCTAATACCATTAACACAGCTGCTCACTCTGGGGTCAGACCTGCCATTGTTCC
AACCCCTGCCACCATGCCACATGGCACACAGACTCCCTTTACCCTGGGACCCTGAATGGACAACAGC
AGCTGCAACCCAGATGTTGCCATTATTGTGGCACAACCTGGAGCTCAGGGCGCTCCTAAGCTCAGA
GAACTGCCACTAGCCTCCCAAATCTTACGGGCTCCTATCCACCCTTGTTCCCTGGAGCCATTGAG
CCATCCGGTCAGACAGGGGCTAAACCAGATGTGCAGAATGGAGCCCTTCTACAAGACAGGCAGGAGCGA
GCCCTGCCAACCAGGCAACCACTCCTGGCCACACAACCTCTGCTGTACAGATGATGACTACGAAAT
GAGCACCCCTGCAGGCCGCAAAGGGCCACACACCCTGAGGGGACCACCATGGACCCACCAATAGA
ACTAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR214700 representing NM_001044296
Red=Cloning site Green=Tags(s)

MKTVVLLLCLLGSAQSLPRQLSPALGAPATKPTPGQVTPLTQQPNQVFPISL IPLTQLLTLGSDLP LF
NPATMPHGTQTLPTLGLPLNGQQQLQPQMLPIIVAQLGAQGALLSSEELPLASQIFTGLLIHPLFPGAIQ
PSGQTGAKPDVQNGALPTRQAGASPANQATTPGHHTPAVTD DDDYEMSTPAGLQRATHHTEGTTMDPPNR
TK

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV



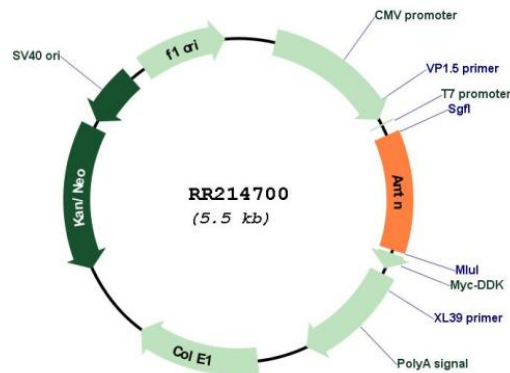
[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001044296

ORF Size: 636 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:	<u>NM_001044296.1, NP_001037761.1</u>
RefSeq Size:	1032 bp
RefSeq ORF:	639 bp
Locus ID:	689404
UniProt ID:	<u>Q3HS82</u>
Cytogenetics:	14p22
MW:	22.1 kDa
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]