

Product datasheet for **MG219450**

Amtn (NM_027793) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Amtn (NM_027793) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Amtn
Synonyms: 5430427O21 Rik
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG219450 representing NM_027793
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGACCATGATTCTACTGCTTTGTCTTCTAGGATCAGCCCAGTCATTACCAAAGCAGCTTAACCCTG
CTTCGGGAGTTCCTGCAACAAAACCGACTCCAGGTCAGGTGACCCCACTACCTCAACAGCAACCAATCA
GGTTTTTCCTCCATAAGTCTCATACCATTAACACAGCTGCTCACTCTGGGGTCAGACCTGCCGTTGTT
AACCTGTGCTGGGCCACGGCGCACATACTCTCCCGTTCACCCTGGGACCACTGAATGGACAGCAAC
AGCTGCAACCGCAGATGTTACCCATTATTGTGGCACAACCTGGAGCTCAGGGTGCTCTCCTAAGCTCAGA
GGAAGTCCGTTAGCCTCCCAAATCTTCACAGGCCTCCTTATCCACCCTTGTTCCCTGGAGCCATTCT
CCCTCTGGTCAGGCAGGCACTAAACCAGATGTGCAGAATGGAGTCCCTTCTACAAGACAGGCAGGAGCGA
AAGCTGTCAACCAGGAACCACTCCGGGCCATGTCACAACCTCTGGTGTCACAGATGATGATGACTATGA
GATGAGCACCCCTGCAGGCCTGCGAAGGGCCACACACCACGGAGGGAACCACCATAGATCCACCAAAT
AGAACTCAG

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG219450 representing NM_027793
 Red=Cloning site Green=Tags(s)

MKTMILLLLCLLGSQAQLPKQLNPASGVDPATKPTPGQVTPLPQQQPNQVFPSISLIPLTQLLLTLGSDLPLF
 NPAAGPHGAHTLPFTLGLPLNGQQQLQPQMLPIIIVQLGAQGALLSSEELPLASQIFTGLLIHPLFPGAIP
 PSGQAGTKPDVQNGVLPTRQAGAKAVNQGTTPGHVTTPGVTDDDDYEMSTPAGLRRAHTHTTEGTTIDPPN
 RTQ

TRTRPLE - GFP Tag - V

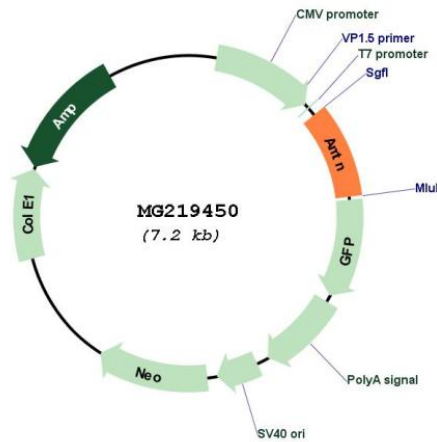
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_027793

ORF Size: 639 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_027793.1 , NP_082069.1
RefSeq Size:	1022 bp
RefSeq ORF:	642 bp
Locus ID:	71421
UniProt ID:	Q9D3J8
Cytogenetics:	5 E1
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]