

## Product datasheet for MR221956

### Ambn (NM\_009664) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ambn (NM_009664) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ambn
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR221956 representing NM_009664 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCAGCATCTAAGATTCCACTTTTCAAATGAAGGGCCTGATCCTGTTCTGTCCCTAGTGAAAATGA  
GCCTCGCCGTGCCGGCATTTCCTCAACAACCTGGGGCTCAAGGCATGGCACCTCCTGGCATGGCTAGTTT  
GAGCCTTGAGACAATGAGACAGTTGGGAAGCTTGACGGGACTCAACGCACCTTTCTCAGTATTCTAGACTT  
GGCTTTGGAAAAGCACTTAATAGTTTATGGTTGCACGGACTTCTCCACCGCATAACTCTTTCCCATGGA  
TAGGACCAAGGGAACATGAAACCCAGCAGCCATCCTTGACGCCTCACACAGCCAGGACTGAAACCCCTTCT  
CCAGCCCACTGCTGCAACCGGTGTCAGGTCACACCCAGAAAGCCAGGGCCTCAGCCTCCAATGCACCCCT  
GGACAGCTGCCCTTGACGGAAGGAGAGCTGATAGCACCAGATGAGCCGCAGGTGGCACCATCCGAAAACC  
CACCAACACCTGAGGTACCAATAATGGATTTTGTGATCCACAATTTCCAACCGTGTTCAGATCGCCCG  
TTCAATATCTCGGGACCAATGGCACACAACAAAGCATCCGCTTTTTACCCAGGAATGTTTTACATGTCT  
TATGGAGCAAACCAATTGAATGCTCCTGCCAGAATTGGCTTCATGAGTTCAGAAGAAATGCCTGGAGAAA  
GAGGAAGTCCCATGGCCTATGGAATCTGTTCCCAAGATTTGGAGGCTTCAGGCAAACCCCTTAGGAGACT  
GAATCAGAATTCACCAAGGGAGGAGACTTTACTGTGGAAGTAGATCCCAAGTATCTGTTACCAAAGGC  
CCTGAAAAGGAGAAGGTCCAGAAGGCTCTCCACTGCAAGAGGCCAACCCAGGCAAACGGGAAAACCCCG  
CTCTCCTTTCACAAATGGCACCTGGGGCCATGCAGGACTTCTTGCTTTCCCAATGACCACATCCCCAG  
TATGGCAAGGGTCTGCAGGGCAAAGACTCCTTGGAGTACCCCTGCAGCTGCAGACCCACTGATCACC  
CCTGAATTAGCAGAAGTTTATGAAACCTATGGTGTGATGTTACCACACCCCTGGGTGATGGAGAAGCAA  
CCATGGATATCACCATGTCCCAAGACACTCAGCAGCCACTGCTACCTGGAACAAAGTGCACCAGCCCCA  
GGTGCACAACGCATGGCGTTTCCAAGAGCCC

**ACGCGT**ACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



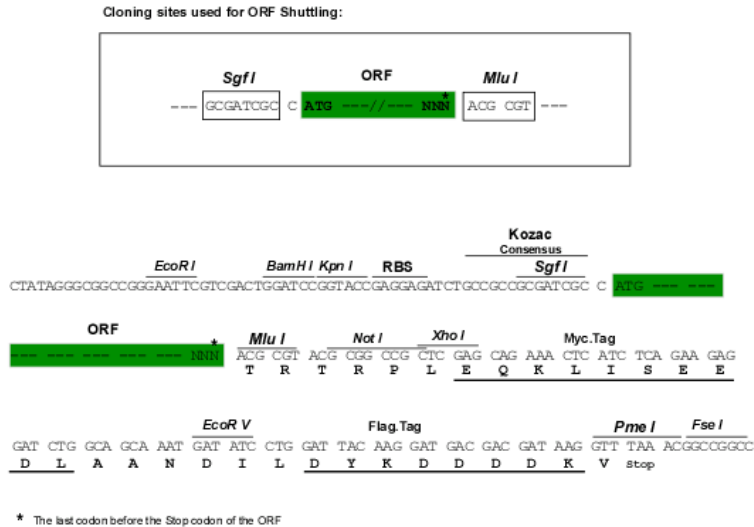
**Protein Sequence:** >MR221956 representing NM\_009664  
Red=Cloning site Green=Tags(s)

MSASKIPLFKMKGLILFLSLVKMSLAVPAFPQQPGAQGMAPPGMASLSLETMRQLGSLQGLNALSQYSRL  
 GFGKALNSLWLHGLLPPHNSFPWIGPREHETQQPSLQPHQPGLKPFLQPTAATGVQVTPQKPGPQPPMHP  
 GQLPLQEGELIAPDEPQVAPSENPTPEVPIIMDFADPQFPTVFQIARSIIRGPMAHNKASAFYPMFYMS  
 YGANQLNAPARIGFMSSEEMPGERGSPMAYGTLFPRFGFRQTLRRLNQNNSPKGGDFTVEVDSPVSVTKG  
 PEKGEPEGSPLQEANPGKRENALLSQMAPGAHAGLLAFPNDHIPSMARGPAGQRLLGVTCAAADPLIT  
 PELAEVYETYGADVTTPLGDGEATMDITMSPDTQQPLLPGNKVHQPQVHNAWRFQEP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_009664

**ORF Size:** 1221 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:**

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\\_009664.2](#), [NP\\_033794.1](#)

**RefSeq Size:** 1860 bp

**RefSeq ORF:** 1224 bp

**Locus ID:** 11698

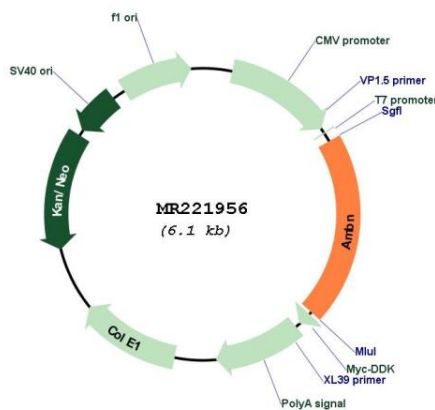
**UniProt ID:** [O55189](#)

**Cytogenetics:** 5 43.63 cM

**MW:** 44.1 kDa

**Gene Summary:** This gene encodes an extracellular matrix glycoprotein that is involved in the formation of dental enamel. Mice lacking the encoded protein fail to undergo normal ameloblast differentiation and develop enamel. Mice overproducing the product of this gene develop thinner and more porous enamel, with disrupted rod patterns and abnormal crystallites. Alternate splicing of this gene results in multiple transcript variants. [provided by RefSeq, Dec 2014]

### Product images:



Circular map for MR221956