

## Product datasheet for MR229830

### Ambn (NM\_001303431) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ambn (NM_001303431) 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:	>MR229830 representing NM_001303431 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCAGCATCTAAGATTCCACTTTTCAAATGAAGGGCCTGATCCTGTTCTGTCCCTAGTGAAAATGA  
GCCTCGCCGTGCCGGCATTTCCTCAACAACCTGGGGCTCAAGGCATGGCACCTCCTGGCATGGCTAGTTT  
GAGCCTTGAGACAATGAGACAGTTGGGAAGCTTGACGGGACTCAACGCACCTTCTCAGTATTCTAGACT  
GGCTTTGAAAAGCACTTAATAGTTTATGGTTGCACGGACTTCTCCACCGCATAACTCTTCCCATGGA  
TAGGACCAAGGGAACATGAAACCCAGCAGTATGAATATTTTGCCTGTGCATCCCCACCTCTCCATC  
ACAGCCATCCTTGACGCCTCACCCAGCCAGGACTGAAACCCCTTCCAGCCCACTGTGCAACCGGTGTC  
CAGGTCACACCCCAAGCCAGGGCCTCAGCCTCCAATGCACCCTGGACAGCTGCCCTTGCAAGGAG  
AGCTGATAGCACCAGATGAGCCGAGGTGGCACCATCCGAAAACCCACCAACACCTGAGGTACCAATAAT  
GGATTTTGCTGATCCACAATTTCCAACCGTGTTCAGATCGCCGTTCAATATCTCGGGACCAATGGCA  
CACAAACAAGCATCCGCTTTTTACCCAGGAATGTTTTACATGTCTTATGGAGCAAACCAATTGAATGCTC  
CTGCCAGAATTGGCTTCATGAGTTCAGAAGAAATGCCTGGAGAAAGAGGAAGTCCATGGCCTATGGAAC  
TCTGTTCCCAAGATTTGGAGCTTCAGGCAAACCTTAGGAGACTGAATCAGAATTCACCAAGGGAGGA  
GACTTTACTGTGGAAGTAGATTCCCAAGTATCTGTTACCAAAGGCCCTGAAAAGGAGAAGTCCAGAAG  
GCTCTCCACTGCAAGAGGCCAACCCAGGCAAACGGGAAAACCCCGCTCTCCTTTCAAAAATGGCACCTGG  
GGCCATGCAGGACTTCTTGCTTTCCCAATGACCACATCCCAAGTATGGCAAGGGTCTGCAGGGCAA  
AGACTCCTTGGAGTCACCCCTGCAGCTGCAGACCCACTGATCACCCTGAATTAGCAGAAGTTTATGAAA  
CCTATGGTGTGATGTTACCACACCCCTGGGTGATGGAGAAGCAACCATGGATATCACCATGTCCCAGCA  
CACTCAGCAGCCACTGCTACCTGAAAACAAAGTGACCCAGCCCAAGGTGCACAACGCATGGCGTTTCCAA  
GAGCCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



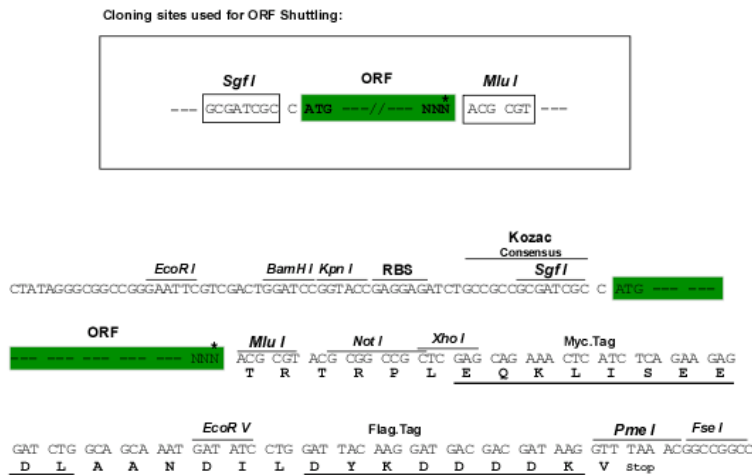
**Protein Sequence:** >MR229830 representing NM\_001303431  
Red=Cloning site Green=Tags(s)

MSASKIPLFKMKGLILFLSLVKMSLAVPAFPQQPGAQGMAPPGMASLSLETMRQLGSLQGLNALSQYSRL  
 GFGKALNSLWLHGLLPPHNSFPWIGPREHETQQYEYSLPVHPPPLPSQPSLQPHQPGLKPFLQPTAATGV  
 QVTPQKPGPQPPMHPGQLPLQEGLIAPDEPQVAPSENPTPEVPIIMDFADPQFPTVFQIARSISRGPMA  
 HNKASAFYPGMFYMSYGANQLNAPARIGFMSSEEMPGERGSPMAYGTLFPRFGFRQTLRRLNQNSPKGG  
 DFTVEVDSPVSVTKGPEKGEPEGSPLQEANPGKRENALLSQMAPGAHAGLLAFPNDHIPSMARGPAGQ  
 RLLGVTPAAADPLITPELAEVYETYGADVTTPLGDGEATMDITMSPDTQQPLLPGNKVHQVQVHNAWRFP  
 EP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001303431

**ORF Size:** 1266 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\\_001303431.1](#), [NP\\_001290360.1](#)

**RefSeq Size:** 1919 bp

**RefSeq ORF:** 1269 bp

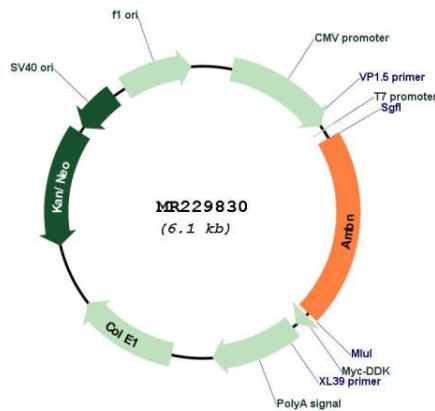
**Locus ID:** 11698

**Cytogenetics:** 5 43.63 cM

**MW:** 45.4 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 MR229830