

Product datasheet for MR206721

Ambn (BC087927) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Ambn (BC087927) 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: >MR206721 representing BC087927
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGTCAGCATCTAAGATTCCACTTTTCAAATGAAGGGCCTGATCCTGTTCTGTCCCTAGTGAAAATGA
 GCCTCGCCGTGCCGGCATTTCCTCAACAACCTGGGGCTCAAGGCATGGCACCTCCTGGCATGGCTAGTTT
 GAGCCTTGAGACAATGAGACAGTTGGGAAGCTTGACGGGACTCAACGCACCTTCTCAGTATTCTAGACT
 GGCTTTGAAAAGCACTTAATAGTTTATGGTTGCACGGACTTCTCCACCGCATAACTCTTCCCATGGA
 TAGGACCAAGGGAACATGAAACCCAGCAGTATGAATATTTGCTGTGCATCCCCACCTCTCCATC
 ACAGCCATCCTTGACGCCTCACCCAGCCAGGACTGAAACCCCTTCCCTCAGCCCACTGTGCAACCGGTGTC
 CAGGTCACACCCCAAGCCAGGGCCTCAGCCTCCAATGCACCCTGGACAGCTGCCCTTGCAAGGAGGAG
 AGCTGATAGCACCAGATGAGCCGAGGTGGCACCATCCGAAAACCCACCAACACCTGAGGTACCAATAAT
 GGATTTTGCTGATCCACAATTTCCAACCGTGTTCAGATCGCCGTTCAATATCTCGGGACCAATGGCA
 CACAACAAAGCATCCGCTTTTTACCCAGGAATGTTTTACATGTCTTATGGAGCAAACCAATTGAATGCTC
 CTGCCAGAATTGGCTTCATGAGTTCAGAAGAAATGCCTGGAGAAAGAGGAAGTCCATGGCCTATGGAAC
 TCTGTTCCCAAGATTTGGAGCTTCAGGCAAACCTTAGGAGACTGAATCAGAATTCACCAAGGGAGGA
 GACTTTACTGTGGAAGTAGATTCCCAAGTATCTGTTACCAAAGGCCCTGAAAAGGAGAAGTCCAGAAG
 GCTCTCCACTGCAAGAGGCCAACCCAGGCAAACGGGAAAACCCCGCTCTCCTTTCAAAATGGCACCTGG
 GGCCATGCAGGACTTCTTGCTTTCCCAATGACCACATCCCCAGTATGGCAAGGGTCTCGAGGGCAA
 AGACTCCTTGGAGTCACCCCTGCAGCTGCAGACCCACTGATCACCCTGAATTAGCAGAAGTTTATGAAA
 CCTATGGTGTGATGTTACCACACCCCTGGGTGATGGAGAAGCAACCATGGATATCACCATGTCCCCAGA
 CACTCAGCAGCCACTGCTACCTGAAAACAAAGTGACCAGCCCCAGGTGCACAACGCATGGCGTTTCCAA
 GAGCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >MR206721 representing BC087927
Red=Cloning site Green=Tags(s)

MSASKIPLFKMKGLILFLSLVKMSLAVPAFPQQPGAQGMAPPGMASLSLETMRQLGSLQGLNALSQYSRL
 GFGKALNSLWLHGLLPPHNSFPWIGPREHETQQYEYSLPVHPPPLPSQPSLQPHQPGLKPFLQPTAATGV
 QVTPQKPGPQPPMHPGQLPLQEGELIAPDEPQVAPSENPTPEVPIMDFADPQFPTVFQIARISIRGPM
 HNKASAFYPGMFYMSYGANQLNAPARIGFMSSEEMPGERGSPMAYGTLFPRFGFRQTLRRLNQNSPKGG
 DFTVEVDSVSVTKGPEKGEGSPLQEANPGKRENPLLQMAPGAHAGLLAFNDHIPSARGPAGQ
 RLLGVTPAAADPLITPELAEVYETYGADVTTPLGDGEATMDITMSPDTQQPLLPGNKVHQPVHNAWRQ
 EP

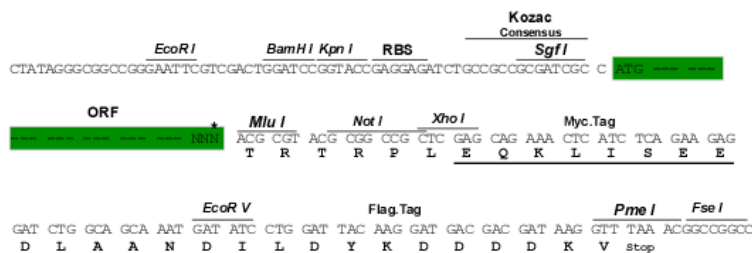
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9005_f10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC087927

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: [BC087927.1](#)

RefSeq Size: 1602 bp

RefSeq ORF: 1268 bp

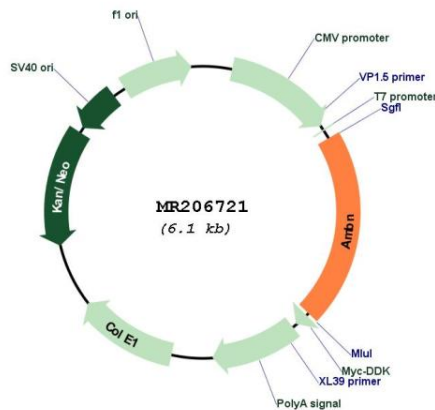
Locus ID: 11698

Cytogenetics: 5 43.63 cM

MW: 58.7 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 MR206721