

## Product datasheet for **SC304427**

### AMBN (NM\_016519) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AMBN (NM_016519) Human Untagged Clone
Tag:	Tag Free
Symbol:	AMBN
Synonyms:	A11F
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_016519 edited  
 CTTGGTTGGCATCATCAGGCCCTGAGAGCACAGTGCATGTCAGCATCTAAGATTCCA  
 TTCAAATGAAGGACCTGATACTGATCCTATGCCTCCTGGAAATGAGTTTGCAGTGCCG  
 TTCTTTCTCAGCAATCTGGAACACCGGTATGGCTAGTTTGAGCCTTGAGACAATGAGA  
 CAGTTGGGAAGTCTGCAGAGATTAACACACTTCTCAGTATTCTAGATACGGCTTTGGA  
 AAATCATTAAATCTTTGTGGATGCACGGTCTCCTCCCACCACATTCTCTCTCCATGG  
 ATGAGCCAAGGAACATGAAACTCAACAGTATGAATATTCTTTGCCTGTGCATCCCCCA  
 CCTCTCCATCACAGCCATCCTTGAAGCCTCAACAGCCAGGACTGAAACCTTTCTCCAG  
 TCTGCTGCTGCAACCACCAACCAGGCCACAGCACTGAAAGAAGCACTTACGCCTCAATT  
 CACCTGGGACATCTGCCCTTGCAGGAAGGAGAAGTGCCTCTGGTTCAGCAGCAGGTGGCA  
 CCATCAGATAAGCCACCAAGCCTGAGCTCCCAGGAGTAGATTTTGTGATCCACAAGGT  
 CCATCACTCCCAGGAATGGATTTTCTGATCCACAAGTCCATCACTCCCAGGATTGGAT  
 TTTGCTGATCCACAAGG: TTCAACAATTTCCAAATAGCCGTTTGATTTCTCACGGACC  
 AATGCCACAAAATAACAATCTCCACTTATCCAGGAATGTTGTACGTGCCTTTTGGAGC  
 AAATCAATTGAATGCCCTGCCAGACTTGGCATCATGAGTTCAGAAGAAGTGGCAGCGCG  
 GAGAGAAGACCAATGGCCTATGGAGCCATGTTTCCAGGATTTGGAGGCATGAGGCCCGG  
 CTTTGAGGGAATGCCCCAACCAGCTATGGGCGGTGACTTCACTCTGGAATTTGACTC  
 CCCAGTGGCTGCCACCAAGGCCCTGAGAACGAAGAAGGAGTGCACAAGGCTCCCTAT  
 GCCGGAGGCCAACCCAGACAATCTAGAAAACCCAGCTTTCCTTACAGAGCTAGAACCCTGC  
 TCCCCACGCAGGGCTCCTGCTCTCCCTAAGGATGACATTCGGGCTGCCAAGGAGCCC  
 TTCAGGGAAGATGAAGGGACTCCCCAGCGTCACCCAGCAGCTGCTGACCCACTGATGAC  
 CCCTGAATTAGCTGATGTTTATAGGACCTACGATGCTGACATGACCACATCCGTGGATTT  
 CCAGGAAGAAGCAACCATGGATACCAGATGGCCCCAACTCTCTGCAAACATCCATGCC  
 AGGAAACAAAGCCAGGAGCCCGAGATGATGCATGACGCATGGCATTTCGAAGAGCCCTG  
 ACAGCTCTAAGATATTAGCTACTTTCTGTATGCACAAGCTTCCCAGCTTTGTCCCCACAG  
 TGTACCTTTTGTAAAACACTTATTACCCTTCTGCAGCAAAGGCATTAAGAGCGCTAAG  
 CATATATTAATAAATGCAAGTGGCTAGAAATAGTGTAGGTCCCCTTCTTGCTTTCAATAT  
 CTTGTTGAAATAAATGTGTCAATTGTCTCTGTGATTTAGAAACACTATTAATAACATCA  
 GAGCAAGTTCTAAGGGTCTCAGCATTGATCATCACTTTTTCTAGCTGTCTTAAGCAT  
 TATAGAATTTCTTACCAGCATGACACTATTATATTCAGGAAACATGGCACTGCTTTTT  
 TCTCTAAGCAAAGCAAATATCCTCATAATTCTAAGCTAATTCATTTAACTTTATTA  
 TGGGGATTGGTGGAAAACCTCCTGACTGGT

- Restriction Sites:** Please inquire
- ACCN:** NM\_016519
- Insert Size:** 1900 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** The ORF of this clone has been fully sequenced and found to contain one SNP compared with NM\_016519.4.
- 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\\_016519.4](#), [NP\\_057603.1](#)

**RefSeq Size:** 1999 bp

**RefSeq ORF:** 1344 bp

**Locus ID:** 258

**UniProt ID:** [Q9NP70](#)

**Cytogenetics:** 4q13.3

**Protein Families:** Secreted Protein

**Gene Summary:** This gene encodes the nonamelogenin enamel matrix protein ameloblastin. The encoded protein may be important in enamel matrix formation and mineralization. This gene is located in the calcium-binding phosphoprotein gene cluster on chromosome 4. Mutations in this gene may be associated with dentinogenesis imperfect and autosomal dominant amylogenesis imperfect. [provided by RefSeq, Aug 2011]