

Product datasheet for **SC334480**

Amelotin (AMTN) (NM_001286731) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Amelotin (AMTN) (NM_001286731) Human Untagged Clone
Tag:	Tag Free
Symbol:	AMTN
Synonyms:	A13B; UNQ689
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001286731, the custom clone sequence may differ by one or more nucleotides

```
ATGAGGAGTACGATTCTACTGTTTTGTCTTCTAGGATCAACTCGGTCATTACCACTCAAACCTGCTTTGG  
GACTCCCTCCCACAAAACCTGGCTCCGGATCAGGGAACACTACCAAACCAACAGCAGTCAAATCAGGTCTT  
TCCTTCTTTAAGTCTGATACCATTAACACAGATGCTCACACTGGGGCCAGATCTGCATCTGTTAAATCCT  
GCTGCAGGAATGACACCTGGTACCCAGACCCACCCATTGACCCTGGGAGGGTTGAATGTACAACAGCAAC  
TGCACCCACATGTGTTACCAATTTTTGTCACACAACCTGGAGCCCAGGGCACTATCCTAAGCTCAGAGGA  
ATTGCCACAAATCTTCAGAGCCTCATCATCCATTCTTGTCCCGGGAGGCATCCTGCCACCAGTCAG  
GCAGGGGCTAATCCAGATGTCCAGGATGGAAGCCTTCCAGCAGGAGGAGCAGGTGTAATCCTGCCACCC  
AGGGAACCCAGCAGGCCCTCCAACCTCCAGTGGCAGATGACGACTTTGCAGTGACCACCCCTGC  
AGGCATCAAAGGAGCACACATGCCATCGAGGAAGCCACCACAGAATCAGCAAATGGAATTCAGTAA
```

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001286731
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).
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).



[View online »](#)

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_001286731.1](#), [NP_001273660.1](#)

RefSeq Size: 1020 bp

RefSeq ORF: 627 bp

Locus ID: 401138

UniProt ID: [Q6UX39](#)

Cytogenetics: 4q13.3

Gene Summary: The mineralized portions of teeth, the dentin and enamel, are formed by mesenchyme-derived odontoblasts and epithelium-derived ameloblasts, respectively. As ameloblasts differentiate, they deposit specific proteins necessary for enamel formation, including amelogenin (AMELX; MIM 300391), enamelin (ENAM; MIM 606585), and ameloblastin (AMBN; MIM 601259), in the organic enamel matrix. Amelotin is specifically expressed in maturation-stage ameloblasts (Iwasaki et al., 2005 [PubMed 16304441]).[supplied by OMIM, Mar 2008]
Transcript Variant: This variant (2) uses an alternate in-frame splice junction at the 5' end of an exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is 1 aa shorter compared to isoform 1.