

## Product datasheet for **SC302980**

### AMELY (NM\_001143) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AMELY (NM_001143) Human Untagged Clone
Tag:	Tag Free
Symbol:	AMELY
Synonyms:	AMGL; AMGY
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC302980 representing NM_001143. Blue=Insert sequence Red=Cloning site Green=Tag(s)

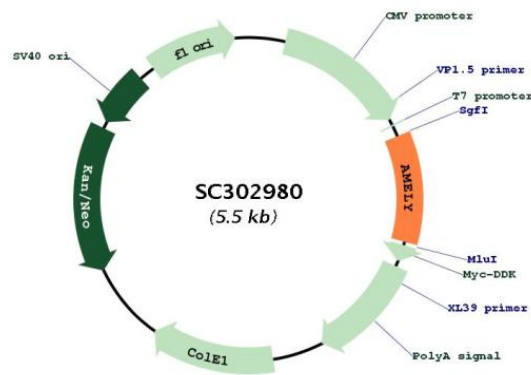
```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGGACCTGGATTTTGTTCCTGCCTGTGGGAGCAGCTTTTGCATGCCTCTACCACCTCATCCT
GGGCACCCTGGTTATATCAACTTCAGCTATGAGGTGCTCACCCCTTTGAAGTGGTACCAGAGCATGATA
AGACCACCATACTCTTCTATGGTTACGAGCCCATGGGTGGATGGCTGCACCACCAATCATCCCGTG
GTGTCCCAACAGCACCCCTGACTCACACCCTGCAGTCTCATCACCACATCCCAGTGGTCCAGCTCAG
CAGCCCAGGGTCCGCCAGCAAGCACTGATGCCTGTTCTGGCCAGCAATCCATGACTCCAACCCAACAC
CATCAGCCAAACCTCCCTCTGCCTGCCAGCAGCCCTTCCAGCCCAGCCTGTTCCAGCCACAGCCTCAC
CAGCCCATGCAGCCCAGCCACCTGTGCAACCCATGCAGCCCCTGCTGCCACAGCCACCTCTGCCTCCA
ATGTTCCCCCTGCGGCCCTGCCCCCATACTTCTGATCTGCATCTGGAAGCTTGGCCAGCAACAGAC
AAGACCAAGCAGGAGGAAGTGGATTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: Sgfl-MluI



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## Plasmid Map:



**ACCN:** NM\_001143

**Insert Size:** 579 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:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_001143.1](#)

RefSeq Size: 802 bp

RefSeq ORF: 579 bp

Locus ID: 266

UniProt ID: [Q99218](#)

Cytogenetics: Yp11.2

Protein Families: Secreted Protein

MW: 21.7 kDa

**Gene Summary:** This gene encodes a member of the amelogenin family of extracellular matrix proteins. Amelogenins are involved in biomineralization during tooth enamel development. Mutations in a related gene on chromosome X cause X-linked amelogenesis imperfecta. [provided by RefSeq, Jul 2008]