

## Product datasheet for RC212029

### AMELY (NM\_001143) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** AMELY (NM\_001143) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** AMELY  
**Synonyms:** AMGL; AMGY  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC212029 representing NM\_001143  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGGATCGCC

ATGGGGACCTGGATTTTGTTCCTGCCTTGTTGGGAGCAGCTTTTGCCATGCCTCTACCACCTCATCCTG  
 GGCACCCTGGTTATATCAACTTCAGCTATGAGGTGCTCACCCCTTTGAAGTGGTACCAGAGCATGATAAG  
 ACCACCATACTTTCCTATGGTTACGAGCCCATGGGTGGATGGCTGCACCACCAATCATCCCCGTGGTG  
 TCCCAACAGCACCCCTGACTCACACCCTGCAGTCTCATACCACATCCCAGTGGTGCCAGCTCAGCAGC  
 CCAGGGTCCGCCAGCAAGCACTGATGCCTGTTCCCTGGCCAGCAATCCATGACTCCAACCCAACACCATCA  
 GCCAAACCTCCCTCTGCCTGCCAGCAGCCCTCCAGCCCCAGCCTGTTACGCCACAGCCTCACCAGCCC  
 ATGCAGCCCCAGCCACCTGTGCAACCCATGCAGCCCTGCTGCCACAGCCACCTCTGCCTCCAATGTTCC  
 CCCTGCGGCCCTGCCCCCATACTTCTGATCTGCATCTGGAAGCTTGGCCAGCAACAGACAAGACCAA  
 GCAGGAGGAAGTGGAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC212029 representing NM\_001143  
 Red=Cloning site Green=Tags(s)

MGTWILFACLVGAAFAMPLPPHPGHPGYINFSYEVLTPLKQWQSMIRPPYSSYGYEPMGGWLHHQIIPVV  
 SQQHPLTHTLQSHHHIPVVPAQQPRVRQQALMPVPGQQSMTPTQHHQPNLPLPAQQPFQPPVQPPHQP  
 MQPQPVPMPQLLPQPPLPPMFPLRPLPILPDLHLEAWPATDKTKQEEVD

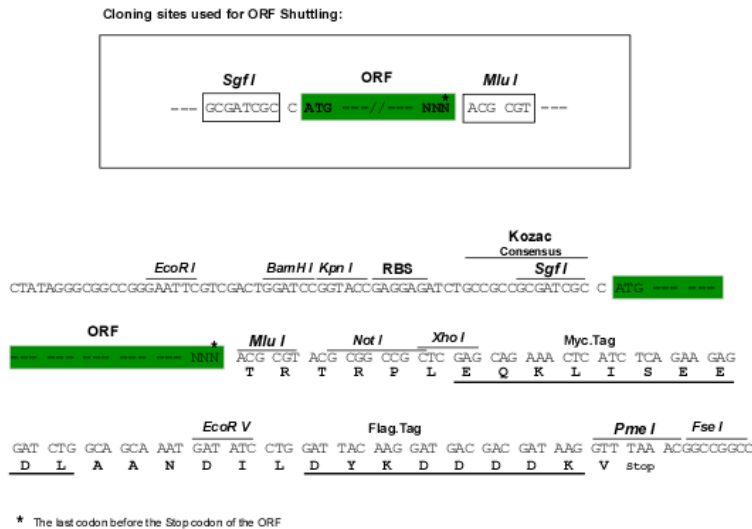
TRTRPLEQKLISEEDLAANDILDYKDDDDKV



Chromatograms: [https://cdn.origene.com/chromatograms/mk6766\\_d03.zip](https://cdn.origene.com/chromatograms/mk6766_d03.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_001143

ORF Size: 576 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\\_001143.1](#), [NP\\_001134.1](#)

RefSeq Size: 802 bp

RefSeq ORF: 579 bp

Locus ID: 266

UniProt ID: [Q99218](#)

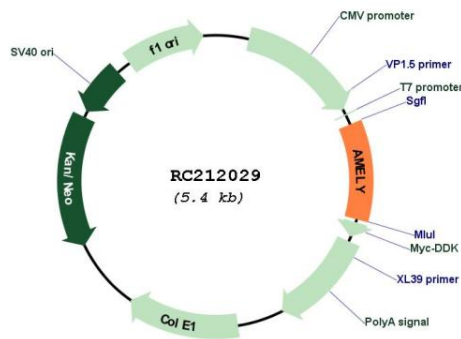
Cytogenetics: Yp11.2

Protein Families: Secreted Protein

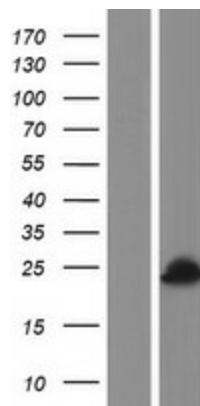
MW: 21.73 kDa

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]

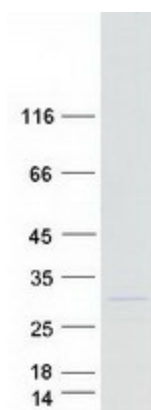
### Product images:



Circular map for RC212029



Western blot validation of overexpression lysate (Cat# [LY420106]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212029 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified AMELY protein (Cat# [TP312029]). The protein was produced from HEK293T cells transfected with AMELY cDNA clone (Cat# RC212029) using MegaTran 2.0 (Cat# [TT210002]).