

## Product datasheet for RR216009

### Amelx (NM\_001271077) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Amelx (NM\_001271077) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Amelx  
**Synonyms:** Amel; LRAP  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR216009 representing NM\_001271077  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGGGACCTGGATCTTGTTCCTGCCTCCTGGGAGCAGCTTTTGCTATGCCCTACCACCTCATCCTG  
 GGAGCCCTGGTTATATCAACTTAAGCTATGAGGTGCTTACCCCTTGAAGTGGTACCAGAGCATGATAAG  
 GCAGCCGTATCCTTCTATGGTTACGAACCCATGGGTGGATGGCTGCACCACCAATCATCCTGTGCTG  
 TCTCAACAGCATCCCCGAGTCACACCCTTCAGCCTCATCACCACCTCCCAGTGGTCCAGCTCAACAGC  
 CCGTGGCCCCCAGCAACCAATGATGCCAGTTCCTGGCCACCACTCCATGACTCCAACCCAAACCATCA  
 GCCAAACATCCCTCCATCCGCCAGCAGCCCTCCAGCAGCCCTCCAGCCCAGGCCATTCCACCCCGAG  
 TCTCATCAGCCCATGCAGCCCGAGTCACCTCTGCATCCCATGCAGCCCTGGCACCACAGCCACCTCTGC  
 CTCCACTGTTCTCCATGCAGCCCTGTCCCCATTCTTCTGAGCTGCCTCTGGAAGCTTGGCCAGCGAC  
 AGACAAGACCAAGCGGGAAGAAGTGGAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR216009 representing NM\_001271077  
 Red=Cloning site Green=Tags(s)

MGTWILFACLLGAAFAMPLPPHPGSPGYINLSYEVLTPLKQYQSMIRQPYPSYGYEPMGGWLHHQIIPVL  
 SQQHPPSHLQPHHLLPVVPAQQPVAPQQPMPVPGHHSMTPTQHHQPNIPPSAQQPFQPPQAIIPPQ  
 SHQPMQPQSPHMQPLAPQPPLPPLFSMQPLSPILPELPLEAWPATDKTKREEVD

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

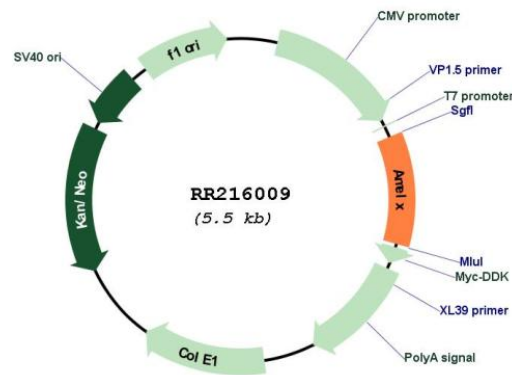
**Restriction Sites:** Sgfl-MluI



## Cloning Scheme:



## Plasmid Map:



ACCN: NM\_001271077

ORF Size: 588 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\\_001271077.1](#), [NP\\_001258006.1](#)

**RefSeq Size:** 807 bp

**RefSeq ORF:** 591 bp

**Locus ID:** 29160

**UniProt ID:** [P63278](#)

**Cytogenetics:** Xq13

**MW:** 22 kDa

**Gene Summary:** may play a role in mineralization of tooth enamel matrix [RGD, Feb 2006]