

Product datasheet for **RR216008**

Amelx (NM_001271073) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Amelx (NM_001271073) 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: >RR216008 representing NM_001271073
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGGGACCTGGATCTTGTTCCTGCCTCCTGGGAGCAGCTTTTGCTATGCCCTACCACCTCATCCTG
GGAGCCCTGGTTATATCAACTTAAGCTATGAGGTGCTTACCCCTTGAAGTGGTACCAGAGCATGATAAG
GCAGCCGCATCCCCGAGTCACACCTTCAGCCTCATCACACCTCCAGTGGTCCAGCTCAACAGCCC
GTGGCCCCCAGCAACCAATGATGCCAGTTCCTGGCCACCACTCCATGACTCCAACCCAACCATCAGC
CAAACATCCCTCCATCCGCCAGCAGCCCTTCAGCAGCCCTTCAGCCCCAGGCCATTCCACCCAGTC
TCATCAGCCCATGCAGCCCCAGTCACCTCTGCATCCCATGCAGCCCTGGCACCACAGCCACCTCTGCCT
CCACTGTTCTCCATGCAGCCCCGTCCCCATTCTTCTGAGCTGCCTCTGGAAGCTTGGCCAGCGACAG
ACAAGACCAAGCGGGAAGAAGTGGCATTCTCTATGAAGTGGTACCAGGGCACGGCAAGGCATCCGCT
TAACATGGAAACCACAACAGAAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR216008 representing NM_001271073
Red=Cloning site Green=Tags(s)

MGTWILFACLLGAAFAMPLPPHPGSPGYINLSYEVLTPLKQWYQSMIRQPHPPSHTLQPHHHLPVVPAQQP
VAPQQPMMPVPGHSMPTPTQHHQPNIPPSAQQPFQPFQQAIPPQSHQPMQPSPLHPMQPLAPQPPLP
PLFSMQLSPIPELPLEAWPATDKTKREEVAFSPMKWYQGTARHPLNMETTTEK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

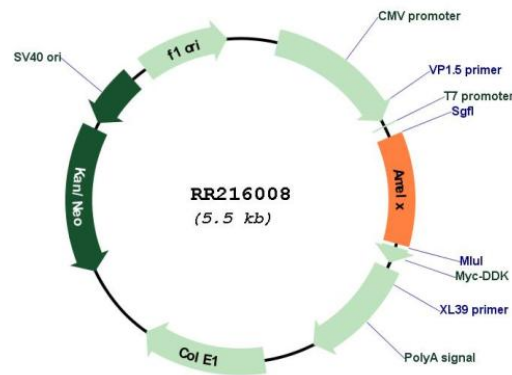
Restriction Sites: Sgfl-Mlul



Cloning Scheme:



Plasmid Map:



ACCN: NM_001271073

ORF Size: 585 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_001271073.1](#), [NP_001258002.1](#)

RefSeq Size: 736 bp

RefSeq ORF: 588 bp

Locus ID: 29160

UniProt ID: [P63278](#)

Cytogenetics: Xq13

MW: 21.9 kDa

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