

Product datasheet for **MR202481**

Amelx (NM_001081978) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Amelx (NM_001081978) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Amelx
Synonyms: ALGN; Amel; Amg; AMGL; AMGX; LRAP; Rgsc888
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR202481 representing NM_001081978
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGACCTGGATTTTGTTCCTGCCTCCTGGGAGCAGCTTTTGCTATGCCCTACCACCTCATCCTG
GAAGCCCTGGTTATATCAACTTAAGCTATGAGGTGCTTACCCCTTGAAGTGGTACCAGAGCATGATAAG
GCAGCCGTATCCTTCTATGGTTACGAACCCATGGGTGGATGGCTGCACCACCAATCATCCCTGTGCTG
TCTCAACAGCATCCCCGAGTCACACCTTCAGCCTCATCACCACCTTCCCGTGGTGCCAGCTCAACAGC
CCGTGGCCCCCAGCAACCAATGATGCCAGTTCCTGGCCACCCTCCATGACTCCAACCCAACACCATCA
GCCAAACATCCCTCCATCCGCCCAGCAGCCCTCCAGCAGCCCTCCAGCCCCAGGCCATTCCACCCAG
TCTCATCAGCCATGCAGCCCCAGTCACCTCTGCATCCCATGCAGCCCTGGCACCACAGCCACCTCTGC
CTCCACTGTTCTCCATGCAGCCCTGTCCCCATTCTTCTGAGCTGCCTCTGGAAGCTTGGCCAGCGAC
AGACAAGACCAAGCGGGAAGAAGTGGCGTTTTCTCCTATGAAGTGGTACCAGGGCATGACAAGGCATCCG
CTTAACATGGAAGCACAAACAGAAAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR202481 representing NM_001081978
 Red=Cloning site Green=Tags(s)

MGTWILFACLLGAAFAMPLPPHPGSPGYINLSYEVL TPLKWYQSMIRQPYPSPYGYEPMGGWLHHQIIPVL
 SQQHPPSHTLQPHHLLPVVPAQQPVAPQQPMPVPVGHHSMTPTQHHQPNIPPSAQQPFQQPFQQAIPPQ
 SHQPMQPQSPLHPMQPLAPQPPLPPLFSMQPLSPILPELPLEAWPATDKTKREEVAFSPMKWYQGMTRHP
 LNMESTTEK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001081978

ORF Size: 657 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_001081978.2](#)

RefSeq Size: 811 bp

RefSeq ORF: 660 bp

Locus ID: 11704

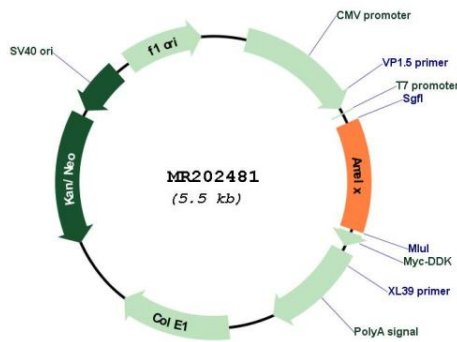
UniProt ID: [P63277](#)

Cytogenetics: X 78.95 cM

MW: 25.1 kDa

Gene Summary: Plays a role in the biomineralization of teeth. Seems to regulate the formation of crystallites during the secretory stage of tooth enamel development. Thought to play a major role in the structural organization and mineralization of developing enamel.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202481