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Product datasheet for MR228272

Amelx (NM_001290371) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Amelx (NM_001290371) Mouse Tagged ORF Clone

Tag: Myc-DDK

Symbol: Amelx

Synonyms: ALGN; Amel; Amg; AMGL; AMGX; LRAP; Rgsc888

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

Cell Selection: Neomycin

ORF Nucleotide Sequence:

>MR228272 representing NM_001290371
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGACCTGGATTTTGTTTGCCTGCCTCCTGGGAGCAGCTTTTGCTATGCCCCTACCACCTCATCCTG
GAAGCCCTGGTTATATCAACTTAAGCTATGAGGTGCTTACCCCTTTGAAGTGGTACCAGAGCATGATAAG
GCAGCCGCATCCCCCGAGTCACACCCTTCAGCCTCATCACCACCTTCCCGTGGTGCCAGCTCAACAGCCC
GTGGCCCCCCAGCAACCAATGATGCCAGTTCCTGGCCACCACTCCATGACTCCAACCCAACACCATCAGC
CAAACATCCCTCCATCCGCCCAGCAGCCCTTCCAGCAGCCCTTCCAGCCCCAGGCCATTCCACCCCAGTC
TCATCAGCCCATGCAGCCCCAGTCACCTCTGCATCCCATGCAGCCCCTGGCACCACAGCCACCTCTGCCT
CCACTGTTCTCCATGCAGCCCCTGTCCCCCATTCTTCCTGAGCTGCCTCTGGAAGCTTGGCCAGCGACAG
ACAAGACCAAGCGGGAAGAAGTGGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR228272 representing NM_001290371
Red=Cloning site Green=Tags(s)

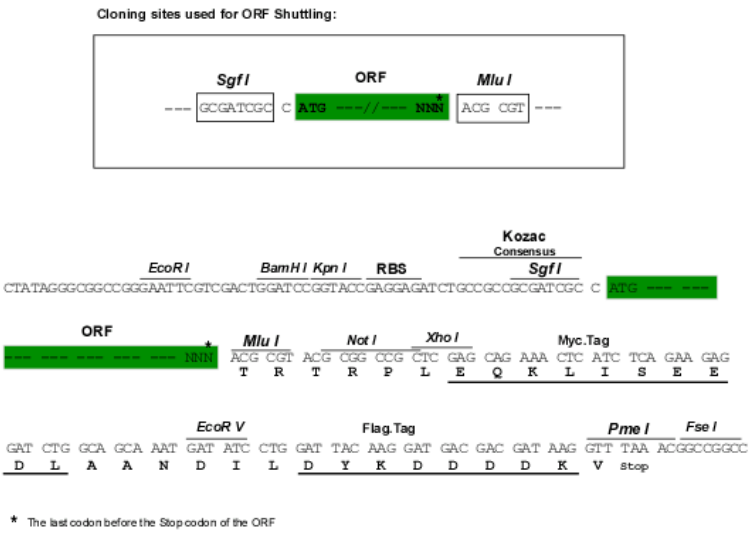
MGTWILFACLLGAAFAMPLPPHPGSPGYINLSYEVLTPLKWYQSMIRQPHPPSHTLQPHHHLPVVPAQQP
VAPQQPMMPVPGHHSMTPTQHHQPNIPPSAQQPFQQPFQPQAIPPQSHQPMQPQSPLHPMQPLAPQPPLP
PLFSMQPLSPILPELPLEAWPATDKTKREEVD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

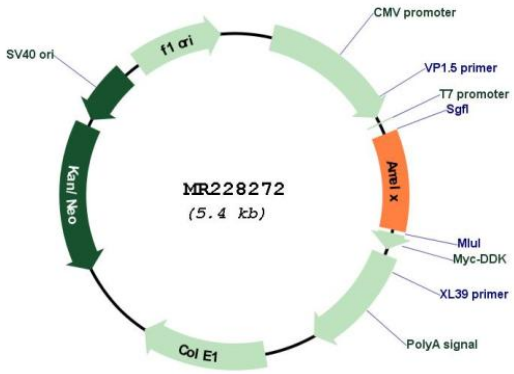
Restriction Sites: SgfI-MluI

View online »

Cloning Scheme:



Plasmid Map:



ACCN: NM_001290371

ORF Size: 516 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_001290371.1, NP_001277300.1
RefSeq Size:	752 bp
RefSeq ORF:	519 bp
Locus ID:	11704
UniProt ID:	P63277
Cytogenetics:	X 78.95 cM
MW:	19.6 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]