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Product datasheet for RG215582

AMELX (NM_182680) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AMELX (NM_182680) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AMELX
Synonyms:	AI1E; AIH1; ALGN; AMG; AMGL; AMGX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

```
>RG215582 representing NM_182680
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGACCTGGATTTTATTTGCCTGCCTCCTGGGAGCAGCTTTTGCCATGCCTCTACCACCTCATCCTG
GGCACCCTGGTTATATCAACTTCAGCTATGAGAACTCACATTCTCAGGCTATCAATGTTGACAGGACTGC
ATTAGTGCTTACCCCTTTGAAGTGGTACCAGAGCATAAGGCCACCGTACCCTTCCTATGGTTACGAGCCC
ATGGGTGGATGGCTGCACCACCAAATCATCCCCGTGCTGTCCCAACAGCACCCCCCGACTCACACCCTGC
AGCCTCATCACCACATCCCAGTGGTGCCAGCTCAGCAGCCCGTGATCCCCCAGCAACCAATGATGCCCGT
TCCTGGCCAACACTCCATGACTCCAATCCAACACCACCAGCCAAACCTCCCTCCGCCCGCCCAGCAGCCC
TACCAGCCCCAGCCTGTTCAGCCACAGCCTCACCAGCCCATGCAGCCCCAGCCACCTGTGCACCCCATGC
AGCCCCTGCCGCCACAGCCACCTCTGCCTCCGATGTTCCCCATGCAGCCCCTGCCTCCCATGCTTCCTGA
TCTGACTCTGGAAGCTTGGCCATCAACAGACAAGACCAAGCGGGAGGAAGTGGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag -  GTTTAA
```

Protein Sequence:

```
>RG215582 representing NM_182680
Red=Cloning site Green=Tags(s)

MGTWILFACLLGAAFAMPLPPHPGHPGYINFSYENSHSQAINVDRTALVLTPLKWYQSIRPPYPSYGYEP
MGGWLHHQIIPVLSQQHPPTHTLQPHHHIPVVPAQQPVIPQQPMMPVPGQHSMTPIQHHQPNLPPPAQQP
YQPQPVQPQPHQPMQPQPPVHPMQPLPPQPPLPPMFPMQPLPPMLPDLTLEAWPSTDKTKREEVD

TRTRPLE - GFP Tag -  V
```

Restriction Sites: SgfI-MluI

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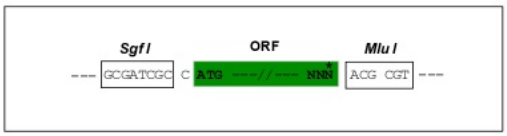
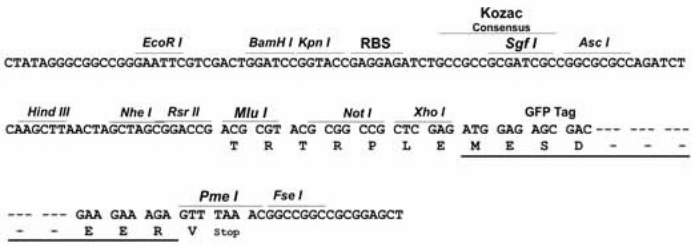
Cloning Scheme:





ACCN: NM_182680

ORF Size: 615 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_182680.1, NP_872621.1

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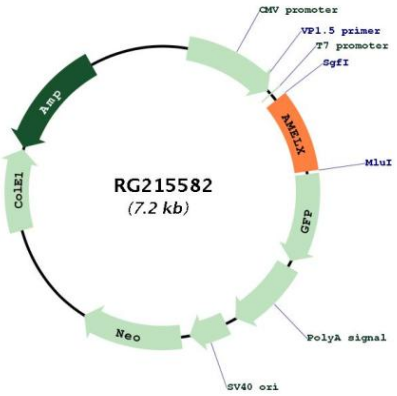
RefSeq Size:	835 bp
RefSeq ORF:	618 bp
Locus ID:	265
UniProt ID:	Q99217
Cytogenetics:	Xp22.2
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
Gene Summary:	This gene encodes a member of the amelogenin family of extracellular matrix proteins. Amelogenins are involved in biomineralization during tooth enamel development. Mutations in this gene cause X-linked amelogenesis imperfecta. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG215582

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