

Product datasheet for **RG212029**

AMELY (NM_001143) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: AMELY (NM_001143) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: AMELY
Synonyms: AMGL; AMGY
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG212029 representing NM_001143
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGACCTGGATTTTGTTCCTGCCTTGTTGGGAGCAGCTTTTGCCATGCCTCTACCACCTCATCCTG
 GGCACCCTGGTTATCAACTTCAGCTATGAGGTGCTCACCCCTTTGAAGTGTACCAGAGCATGATAAG
 ACCACCATACTTCTCCTATGGTTACGAGCCCATGGGTGGATGGCTGCACCACCAATCATCCCCGTGGT
 TCCCAACAGCACCCCTGACTCACACCCTGCAGTCTCATACCACATCCCAGTGGTGCCAGCTCAGCAGC
 CCAGGGTCCGCCAGCAAGCACTGATGCCTGTTCTGGCCAGCAATCCATGACTCCAACCCAACACCATCA
 GCCAAACCTCCCTCTGCCTGCCAGCAGCCCTCCAGCCCCAGCCTGTTACGCCACAGCCTCACCAGCCC
 ATGCAGCCCCAGCCACCTGTGCAACCCATGCAGCCCTGCTGCCAGCCACCTCTGCCTCCAATGTTCC
 CCCTGCGGCCCTGCCCCCATACTTCTGATCTGCATCTGGAAGCTTGGCCAGCAACAGACAAGACCAA
 GCAGGAGGAAGTGGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG212029 representing NM_001143
 Red=Cloning site Green=Tags(s)

MGTWILFACLVGAAAFAMPLPPHPGHPGYINFSYEVLTPLKQYQSMIRPPYSSYGYEPMGGWLHHQIIPVV
 SQQHPLTHTLQSHHHIPVVAQQPRVRQQALMPVPGQQSMTPTQHHQPNLPLPAQQPFQPPVQPPHQP
 MQPQPPVQPMQPLLQPPLPPMFPLRPLPILPDLHLEAWPATDKTKQEEVD

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

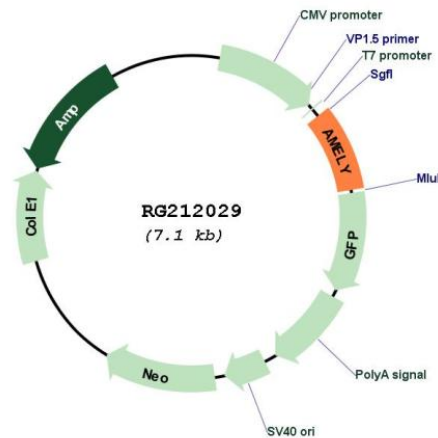


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001143

ORF Size: 576 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_001143.1](#), [NP_001134.1](#)

RefSeq Size: 802 bp

RefSeq ORF: 579 bp

Locus ID: 266

UniProt ID: [Q99218](#)

Cytogenetics: Yp11.2

Protein Families: Secreted Protein

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 a related gene on chromosome X cause X-linked amelogenesis imperfecta. [provided by RefSeq, Jul 2008]