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Product datasheet for MG221956

Ambn (NM_009664) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ambn (NM_009664) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ambn
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG221956 representing NM_009664
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCAGCATCTAAGATTCCACTTTTCAAAATGAAGGGCCTGATCCTGTTCCTGTCCCTAGTGAAAATGA
GCCTCGCCGTGCCGGCATTTCCTCAACAACCTGGGGCTCAAGGCATGGCACCTCCTGGCATGGCTAGTTT
GAGCCTTGAGACAATGAGACAGTTGGGAAGCTTGCAGGGACTCAACGCACTTTCTCAGTATTCTAGACTT
GGCTTTGGAAAAGCACTTAATAGTTTATGGTTGCACGGACTTCTCCCACCGCATAACTCTTTCCCATGGA
TAGGACCAAGGGAACATGAAACCCAGCAGCCATCCTTGCAGCCTCACCAGCCAGGACTGAAACCCTTCCT
CCAGCCCACTGCTGCAACCGGTGTCCAGGTCACACCCCAGAAGCCAGGGCCTCAGCCTCCAATGCACCCT
GGACAGCTGCCCTTGCAGGAAGGAGAGCTGATAGCACCAGATGAGCCGCAGGTGGCACCATCCGAAAACC
CACCAACACCTGAGGTACCAATAATGGATTTTGCTGATCCACAATTTCCAACCGTGTTCCAGATCGCCCG
TTCAATATCTCGGGGACCAATGGCACACAACAAAGCATCCGCTTTTTACCCAGGAATGTTTTACATGTCT
TATGGAGCAAACCAATTGAATGCTCCTGCCAGAATTGGCTTCATGAGTTCAGAAGAAATGCCTGGAGAAA
GAGGAAGTCCCATGGCCTATGGAACTCTGTTCCCAAGATTTGGAGGCTTCAGGCAAACCCTTAGGAGACT
GAATCAGAATTCACCCAAGGGAGGAGACTTTACTGTGGAAGTAGATTCCCCAGTATCTGTTACCAAAGGC
CCTGAAAAAGGAGAAGGTCCAGAAGGCTCTCCACTGCAAGAGGCCAACCCAGGCAAACGGGAAAACCCCG
CTCTCCTTTCACAAATGGCACCTGGGGCCCATGCAGGACTTCTTGCTTTCCCCAATGACCACATCCCCAG
TATGGCAAGGGGTCCTGCAGGGCAAAGACTCCTTGGAGTCACCCCTGCAGCTGCAGACCCACTGATCACC
CCTGAATTAGCAGAAGTTTATGAAACCTATGGTGCTGATGTTACCACACCCCTGGGTGATGGAGAAGCAA
CCATGGATATCACCATGTCCCCAGACACTCAGCAGCCACTGCTACCTGGAAACAAAGTGCACCAGCCCCA
GGTGCACAACGCATGGCGTTTCCAAGAGCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

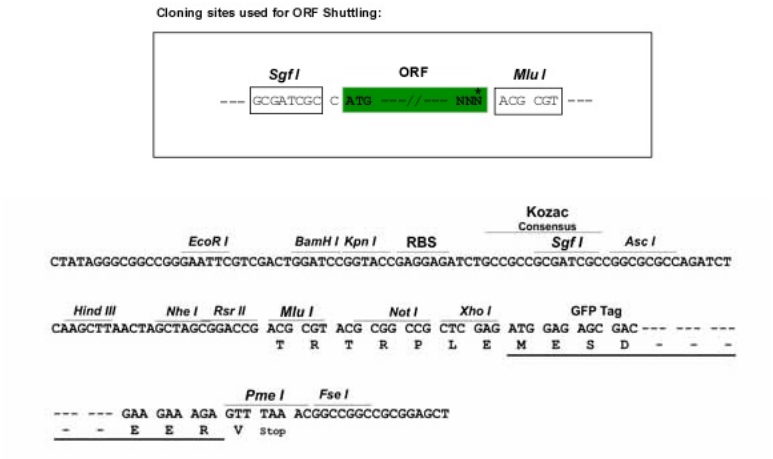
>MG221956 representing NM_009664
Red=Cloning site Green=Tags(s)

MSASKIPLFKMKGLILFLSLVKMSLAVPAFPQQPGAQGMAPPGMASLSLETMRQLGSLQGLNALSQYSRL
GFGKALNSLWLHGLLPPHNSFPWIGPREHETQQPSLQPHQPGLKPFLQPTAATGVQVTPQKPGPQPPMHP
GQLPLQEGELIAPDEPQVAPSENPPTPEVPIMDFADPQFPTVFQIARSISRGPMAHNKASAFYPGMFYMS
YGANQLNAPARIGFMSSEEMPGERGSPMAYGTLFPRFGGFRQTLRRLNQNSPKGGDFTVEVDSPVSVTKG
PEKGEGPEGSPLQEANPGKRENPALLSQMAPGAHAGLLAFPNDHIPSMARGPAGQRLLGVTPAAADPLIT
PELAEVYETYGADVTTPLGDGEATMDITMSPDTQQPLLPGNKVHQPQVHNAWRFQEP

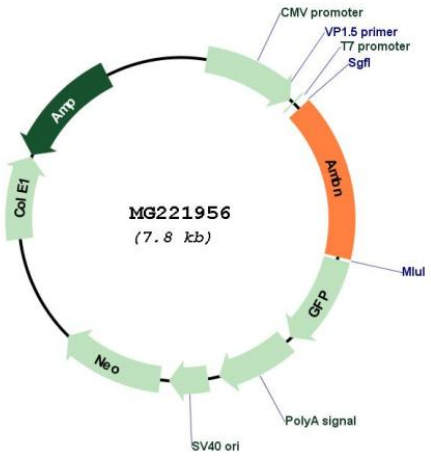
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_009664

ORF Size:	1221 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_009664.2, NP_033794.1
RefSeq Size:	1860 bp
RefSeq ORF:	1224 bp
Locus ID:	11698
UniProt ID:	O55189
Cytogenetics:	5 43.63 cM
Gene Summary:	This gene encodes an extracellular matrix glycoprotein that is involved in the formation of dental enamel. Mice lacking the encoded protein fail to undergo normal ameloblast differentiation and develop enamel. Mice overproducing the product of this gene develop thinner and more porous enamel, with disrupted rod patterns and abnormal crystallites. Alternate splicing of this gene results in multiple transcript variants. [provided by RefSeq, Dec 2014]