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Product datasheet for RG221219

AMBN (NM_016519) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AMBN (NM_016519) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AMBN
Synonyms:	AI1F
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>RG221219 representing NM_016519
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCAGCATCTAAGATTCCACTTTTCAAAATGAAGGACCTGATACTGATCCTATGCCTCCTGGAAATGA
GTTTTGCAGTGCCGTTCTTTCCTCAGCAATCTGGAACACCGGGTATGGCTAGTTTGAGCCTTGAGACAAT
GAGACAGTTGGGAAGTCTGCAGAGATTAAACACACTTTCTCAGTATTCTAGATACGGCTTTGGAAAATCA
TTTAATTCTTTGTGGATGCACGGTCTCCTCCCACCACATTCCTCTCTTCCATGGATGAGGCCAAGAGAAC
ATGAAACTCAACAGTATGAATATTCTTTGCCTGTGCATCCCCCACCTCTCCCATCACAGCCATCCTTGAA
GCCTCAACAGCCAGGACTGAAACCTTTTCTCCAGTCTGCTGCTGCAACCACCAACCAGGCCACAGCACTG
AAAGAAGCACTTCAGCCTCCAATTCACCTGGGACATCTGCCCTTGCAGGAAGGAGAACTGCCTCTGGTTC
AGCAGCAGGTGGCACCATCAGATAAGCCACCAAAGCCTGAGCTCCCAGGAGTAGATTTTGCTGATCCACA
AGGTCCATCACTCCCAGGAATGGATTTTCCTGATCCACAAGGTCCATCACTCCCAGGATTGGATTTTGCT
GATCCACAAGGTTCAACAATTTTCCAAATAGCCCGTTTGATTTCTCACGGACCAATGCCACAAAATAAAC
AATCTCCACTTTATCCAGGAATGTTGTACGTGCCTTTTGGAGCAAATCAATTGAATGCCCCTGCCAGACT
TGGCATCATGAGTTCAGAAGAAGTGGCAGGCGGGAGAGAAGACCCAATGGCCTATGGAGCCATGTTTCCA
GGATTTGGAGGCATGAGGCCCGGCTTTGAGGGAATGCCCCACAACCCAGCTATGGGCGGTGACTTCACTC
TGGAATTTGACTCCCCAGTGGCTGCCACCAAAGGCCCTGAGAACGAAGAAGGAGGTGCACAAGGCTCCCC
TATGCCGGAGGCCAACCCAGACAATCTAGAAAACCCAGCTTTCCTTACAGAGCTAGAACCTGCTCCCCAC
GCAGGGCTCCTTGCTCTCCCTAAGGATGACATTCCCGGCCTGCCAAGGAGCCCTTCAGGGAAGATGAAGG
GACTCCCCAGCGTCACCCCAGCAGCTGCTGACCCACTGATGACCCCTGAATTAGCTGATGTTTATAGGAC
CTACGATGCTGACATGACCACATCCGTGGATTTCCAGGAAGAAGCAACCATGGATACCACGATGGCCCCA
AACTCTCTGCAAACATCCATGCCAGGAAACAAAGCCCAGGAGCCCGAGATGATGCATGACGCATGGCATT
TCCAAGAGCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

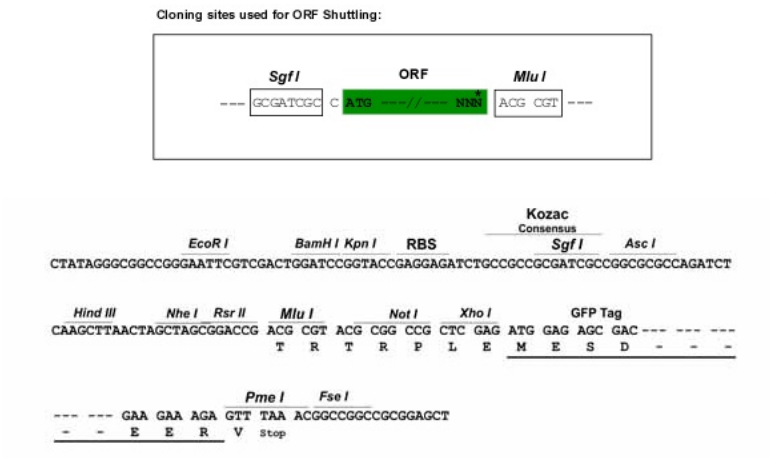
>RG221219 representing NM_016519
Red=Cloning site Green=Tags(s)

MSASKIPLFKMKDLILILCLLEMSFAVPFFPQQSGTPGMASLSLETMRQLGSLQRLNTLSQYSRYGFGKS
FNSLWMHGLLPPHSSLPWMRPREHETQQYEYSLPVHPPPLPSQPSLKPQQPGLKPFLQSAAATTNQATAL
KEALQPPIHLGHLPLQEGELPLVQQQVAPSDKPPKPELPGVDFADPQGPSLPGMDFPDPQGPSLPGLDFA
DPQGSTIFQIARLISHGPMPQNKQSPLYPGMLYVPFGANQLNAPARLGIMSSEEVAGGREDPMAYGAMFP
GFGGMRPGFEGMPHNPAMGGDFTLEFDSPVAATKGPENEEGGAQGSPMPEANPDNLENPAFLTELEPAPH
AGLLALPKDDIPGLPRSPSGKMKGLPSVTPAAADPLMTPELADVYRTYDADMTTSVDFQEEATMDTTMAP
NSLQTSMPGNKAQEPEMMHDAWHFQEP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

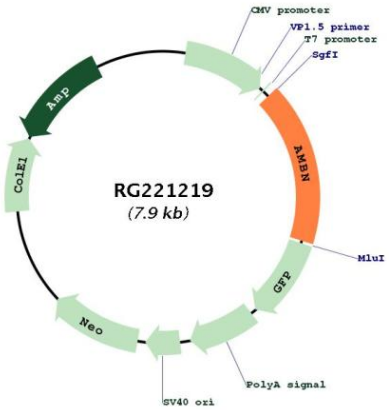


ACCN:	NM_016519
ORF Size:	1341 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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_016519.6
RefSeq Size:	2025 bp
RefSeq ORF:	1344 bp
Locus ID:	258
UniProt ID:	Q9NP70
Cytogenetics:	4q13.3

Protein Families: Secreted Protein

Gene Summary: This gene encodes the nonamelogenin enamel matrix protein ameloblastin. The encoded protein may be important in enamel matrix formation and mineralization. This gene is located in the calcium-binding phosphoprotein gene cluster on chromosome 4. Mutations in this gene may be associated with dentinogenesis imperfect and autosomal dominant amylogenesis imperfect. [provided by RefSeq, Aug 2011]

Product images:



Circular map for RG221219