

Product datasheet for **SC305355**

ENAM (NM_031889) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: ENAM (NM_031889) Human Untagged Clone
Tag: Tag Free
Symbol: ENAM
Synonyms: ADAI; AI1C; AIH2
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Neo
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_031889 edited
TTGGCATTGGTTTCTTCTCAGGTTAAAGCTGTATTTTTCTTAAAGGCTTATAAAAAATTTT
GCTGAAAAAATGTTGGTCTTCGGTGCAGGCTTGGACCTCTTTTCTAAACTAGATAA
CTTGGTACCAAAAGGCAAATGAAGATTCTCTGGTCTTTCTAGGGCTTCTTGGTAATTC
TGTTGCTATGCCAATGCACATGCCCGAATGCCTGGATTAGCAGTAAAAGTGAGGAGAT
GATGCGGTATAATCAATCAACTTTATGAACGGCCACATATGGCACACCTGGGGCCTT
CTTTGGAAACGGTCTCCCTCAGCAATTTCCACAGTACCAGATGCCCATGTGGCCTCAGCC
ACCACCCAACACATGGCATCCACGGAAATCCTCAGCACCCAAACGTCATAACAAGACTGA
TCAGACCAAGAAACCCAGAAACCAACCAGACTCAGTCAAAAAAGCCACCACAAAAGCG
GCCTTTGAAGCAGCCATCACATAATCAACTCAGCCGAAGAGGAAGCTCAACCCCTCA
GGCATTCCACCATTGGAAATGGGCTATCCCCTATCAACAACCACCATGGCAAATTCC
ACAGAGGTTACCACCACCAGTTATGGACGCCCAATCAGCAATGAAGAAGGGGGAA
TCCTTACTTTGGATATTTGGATATCATGGCTTTGGGGTTCGCCCTCTTATTATTCAGA
AGAAATGTTTGAACAAGATTTTGAACCAACCAAGAAGAAGATCCTCCTAAAGCAGAAAG
TCCAGGCACAGAACCCACAGTAATTCAACAGTCACTGAGACGAATTCTACCCAACCAA
TCCTAAAGGGAGTCAGGGAGGAAATGACACCAGCCACAGGAAACAGTACCCAGGACT
AAACACTGGGAACAACCTCCAGCTCAAATGGGATTGGCCACTCCCTGCAGTCAACGC
TTCAGGCCAGGGAGGCCAGGAAGTCAAATCCCATGGAGACCAAGTCAGCCAATATTCG
TGAAAATCATCCATATCCTAATAATAAGAAATTTCTTTCAGGAAGACAGTGGTATTTCC
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GGTCCCTCGTGGAACCTCTTTGCTGGGAACGTAACAAGTAGCTCGTCCAGGAAATCC
AGTTTATCACAAGCTTACCCTCTACTTCAAGAGGCAATTATCCCAATTATGCAGGAAA
TCCAGCAAATCTCAGAAGAAAGCCTCAGGGGCCAAATAAACACCTGTAGGAACTACTGT
TGCCCCACTGGTCCCAAACCTGGCCCTGTTGTTGCAATGAAAAATCCAAAATCCAAA
GGAGAAGCCCCTGGTCCAAAAGAACAATAATAGTTCTACAAAAGATCCAACCAGCCC
CTGGAGAAACTCTCAACAGTATGAAGTTAATAAATCAAATATAAACTGCCTCACTCTGA
GGTTATATGCCAGTCCCAAATTTAATCTGTTGATCAACATGAAAACCTCTATTACCC



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AAGAGGAGATTCCAGAAAAGTCCCAAATCTGATGGACAAACCCAAAGCCAGAATTTGCC
 CAAAGGGATTGTTTTAGGGTCAAGAAGGATGCCATATGAATCAGAACTAATCAGTCAGA
 ATTAAAGCACAGCTCATATCAGCCTGCTGTATACCCTGAGGAAATCCCTTCTCCTGCAAA
 AGAACATTTTCTGCTGGAAGAAATACTTGGGACCACCAAGAAATCTCTCCACCTTTTAA
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 GGAATATCTTCCCTATTCTTTAGATAATCCATCAAAACCAAGGGAGGATTTTTATTACAG
 TGAATTTTACCCATGGAGCCCGGATGAGAATTTTCCATCATATAATACAGCTTCTACTAT
 GCCACCACCTATAGAGAGCAGGGGCTACTACGTTAATAATGCCGCTGGACCAGAAGAAAG
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 TCTTGCACCTGGGGAGAACCAAGACACCAGTCTCTGTATACAGACGGTAGTCATACCAA
 GCAGACAAGAGATATCATCTCCCAACAAGCATCCTACCAGGCCAAAGAAACAGCTCAGA
 GAAGAGGGAAAGCCAAAACCCCTTTTAGAGATGATGTGTCCACGCTGAGGAGGAACACACC
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 CCTTCAATCAAAGAATACACCTTGTCTCAAAAATGATCTTGGAGGAGATGGGAACAACAT
 TCTGGAACAAGTTTTTGAAGACAACCAGCTCAATGAAAGAAGTGTGACCTTACTCCTGA
 GCAGCTTGTTATTGGTACACCTGATGAAGGCTCCAATCCAGAAGGCATCCAAAGTCAAGT
 CCAAGAAAATGAGAGTGAGAGGCAACAGCAAAGACCATTAACATTCTGCATTTGCCATG
 CTTTGGCTCCAAATTAGCAAAGCATCACTCTTCCACCACCGGAACTCCATCTAGCGATGG
 AAGGCAAAGCCCATTTGATGGGGATTCAATTACGCCTACTGAAAATCCTAACACATTGGT
 TGAGTTAGCTACTGAGGAACAATTTAAGAGTATAAATGTAGACCCACTTGATGCAGATGA
 ACACAGTCCATTTGAATTCCTTCAAAGAGGGACCAATGTACAGGACCAGGTACAAGACTG
 CTTACTACTTCAGGCCTAGGGTTATCCAACCAAGCATTCTTGGGGAAAGAGAAATCACT
 G

- Restriction Sites:** Please inquire
- ACCN:** NM_031889
- Insert Size:** 3500 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** The ORF of this clone has been fully sequenced and found to contain 3 SNPs compared with NM_031889.1.
- 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_031889.1](#), [NP_114095.1](#)

RefSeq Size: 5674 bp

RefSeq ORF: 3429 bp

Locus ID: 10117

UniProt ID: [Q9NRM1](#)

Cytogenetics: 4q13.3

Protein Families: Secreted Protein

Gene Summary: Dental enamel forms the outer cap of teeth and is the hardest substance found in vertebrates. This gene encodes the largest protein in the enamel matrix of developing teeth. The protein is involved in the mineralization and structural organization of enamel. Defects in this gene result in amelogenesis imperfect type 1C.[provided by RefSeq, Oct 2009]