

## Product datasheet for MC224121

### Enam (NM\_017468) Mouse Untagged Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Enam (NM\_017468) Mouse Untagged Clone  
 Tag: Tag Free  
 Symbol: Enam  
 Synonyms: abte  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 Fully Sequenced ORF: >MC224121 representing NM\_017468  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGTTGCTGCTTCAGTGCAGAAATCCGACTTCTCCTCAAAGCCATGTGGCCTGGTACCAAATGTAAGA  
 TGAGTCTCCTTGTTCCTGGGCTGCTTGGTGTCTCTGCTGCCATGCCATTCCAGATGCCAATGCCCCG  
 AATGCCTGGATTTAGCAGTAAAAGTGAAGAGATGATGCGATATAATCAATTCAACTTCATGAATGCCCA  
 CCAATGATGCCTATGGGCCCATATGAAATGGTATGCCAATGCCGCCACACATGCCTCCACAGTACCCTC  
 CATAACCAGATGCCCATGTGGCCTCCACCAGTACCCAATGGATGGCAGCAACCCCCAATGCCCAATTTCCC  
 AAGCAAGACTGATCAAACCCAGGAGACCGCCAAACCCACAGACCAATCCACAAGAGCCACAGCCACAA  
 AAGCAGCCTTTAAAGGAACCAAAATGAAGCAGCACGGGCCAAAGATGACGCCAGCCACCTCAGCCAT  
 TCCCACCATTTGGCAATGGACTTTACCCCTATCCACAACCACCATGGCCAATTCACAGAGGGGACCACC  
 AACAGCGTTTGGACGGCCAAAGTTCAGCAATGAAGAAGGAAATCCTTACTATGCATTTTTGGATATCAC  
 GGCTTTGGGGTCTGCTTATTACTCAGAAGAGATGTTTGAAGATTATGAAAAACCCAAAGAAAAAGACC  
 CTCTAAACCAGAGGACCCACCTCCAGATGACCCACCCAGAGGCTCTACAACTCACTGTGCTGTA  
 TGCTAATGCCACTCAATCAATTCCTGAAGCGGAAATGACACTAGCCCAATAGGAAACACAGGCCCTGGG  
 CCGAACGCTGGGAACAATCCTACAGTTCAAAACGGTGTCTTCCCTCCCCCTAAAGTTAATGTTTCAGGCC  
 AGGGAGTACCAAAAAGCCAAATTCGTTGGAGACCAAGTACGCCAAATATTTATGAGAATTATCCTTACCC  
 AAATTATCCTTCAGAAAGACAATGGCAAACCACTGGTACCCAGGGGCTAGACAGAATGGACCTGGCTAC  
 CGAAATCCACAAGTTGAAAGGGTCTCAGTGAATTCCTTTGCTTGGGAAGGCAAAAGCTACTCGTC  
 CAGGAAACCAACTACGGTAAACCTCCCTCTCCTACCTCCGGGGTAAATATGCAGGAAATCCAGTCCA  
 TTTGGAAGAAACCTGCCAGGGCCAAATAAACCTTTGTGGGAGCCAATCCGGCCTCAAATAAACCTTT  
 GTGGGAGCCAATCCGGCCTCAAACAACCTTTGTGGGAGCTAATCCGGCCTCAAACAACCTTTGTGG  
 GAGCCAATCCGGCCTCAAATAAACCTTTGTGGGAGCCAATCCGGCCTCAAATAAACCTATGTGGGAGC  
 CAATCCGGCCTCAAACAACCTTTATAGGAGCCAATCCGGCTGCAAAACAACCTATAGGAACCAAT  
 CCAGCCGCAAAACAACCTATAGGAACCAATCCAGCTGCAAAATAACCTTTGTGAGAAACAATGTAG



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GTGCAATAAACCCCTTTGTGGGAACCAATCCCTCCTCAAACCAACCATTCTGAGAAGCAATCAGGCCTC  
 AAATAAACCATTTATGAGAAGCAATCAGGCCTCAAATAAACCATTTGTGGGCACCAATGTGGCCTCAGTG  
 GGTCTAAACAGGTCACTGTTAGCCACAATATGAAAACCTAAAATCCAAAAGAAAAGTCACTAGGTCAAA  
 AAGAAAGAACAGTCACTCCTACCAAGATGCAAGCAACCCCTGGAGAAGTCTAAACAATATGGAATTA  
 CAATCCAACTATAATTTGCCTCGCTCTGAGGGCAGCATGGTAGGCCAAATTTTAAATTCCTTTGATCAA  
 CAAGAAAACCTACTTCTCAAAGGAGCTTCCAAAAGAGTACCAAGTCCATAATACAAAACCAAAGCC  
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 GTTAAAACATGGTACACACCAGCTGCATACCCTAAGAAAATCCCTTCTCCTACAAGAAAACATTTCCCT  
 GCTGAAAGAAATACCTGGAATCGTCAAAAAATCCTTCCACCCTTAAAGGAAGACTATGGGAGGCAAGACG  
 AAAATTTACGTCATCCGTCCTATGGCTCTAGAGGAAATATTTTTTACCATGAATATACCAATCCTTATCA  
 TAATGAAAAATCACAGTACATTAAGCAATCCATGGGATAAGAGCTCTCCAGTACTATGATGCGGCCA  
 GAAAACCCACAGTACACCATGACTTCTAGACCAGAAGGAGACAGAGCAGTACAATGAAGAGGATCCAA  
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 AAACCCACAGTTAGGCAGTATGAAGGTGAGCACTACGCCTCAACCTAGCGAAGGAATACCTTCCCTTAT  
 TCCTTAAGTAATCCACAAAACCCAGTGAAGATTTTCTTACAGTGAATCTATCCCTGGAACCCACAGG  
 AAACGTTTCCAATATATAACCCAGGTCTACTATAGCACCACCCGTGGACCCAGAAAGTTATTATGTTAA  
 TAATGCCATAGGACAAGAAGAAAGCACTCTTTTCTTCCATGGACCTCCTGGGACCACAGGAATCAAGCT  
 GAGAGGCAGAAAGAGAGTGAAGCCATATTTTAAACAGAAATGTCTGGGATCAGTCAATAAATTTACACAAAT  
 CTAATATACCAAACCATCCTTATTCCTACTACATCCCCTGCTAGATTTCCAAAAGATCCAACATGGTTTGA  
 AGGTGAGAATTTGAACTATGATTTGCAAATTAAGTTAAGTCCACCAGAAAGAGAAGCAGTTGGCTTTC  
 CCAGACTTCTGCCTCAAAGTTACCCAACAGGTCAAAAAGAACACACTTATTTCCAAAAGTCAAAGAG  
 GGTCTTGCTGTATTGGTGGCTCCACAGGACATAAAGACAATGTGCTGGCTCTACAAGACTACACTTCATC  
 CTATGGTCTTCCACCAAGGAAGAACCAAGAAACCCAGTCCAGTGCATACAGAAAGCAGTTATATCAAGTAT  
 GCAAGACCTAACGTTTCCCCAGCAAGCATCCTACCTAGTCAAAGAAATATCTCAGAGAACAACTAACTG  
 CAGAAAGCCCAAACCAAGTCCATTTGGAGATGGTGTGCCTACTGTGAGGAAAAAATACTCCATATTCTGG  
 AAAGAATCAACTAGAGACAGGAATTGTGGCCTTTTCTGAAGCCAGCTCTTCTCAGCCAAAAAACACGCC  
 TGTCTTAAAGTGACCTTGGAGGAGATCGGAGGGATGTTCTGAAACAATTTTTTGAAGGCAGCCAGCTGA  
 GTGAAAGAAGTGTGGCCTTACTCCTGAGCAGCTCGTATTGGTATTCTGATAAAGGCTCTGGCCGAGA  
 TAGCATACAAAGTGAAGTCAAGGAAAAGAGGGTGAAGTGCAGCAACAAAGGCCACCTACCATCATGAAG  
 TTGCCATGCTTTGGCTCCAATTTCAAATTTCACTTCTACCCTGGACCTCCAATTAACAACAGAAGAC  
 CAACCCTACTTAATGGTGTCTCTCCACACCCACTGAAAGTCTAACACATTGGTTGGGTTAGCTACTAG  
 GGAACAACCTAAAAGTATAAACGTAGATAAACTTAATGCAGATGAACACACTACACTCGAATCTTTTCAA  
 GGAACCGTCCACAGGACCAAGGCTGCTTACTGCTTCAGGCTTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM\_017468
- Insert Size:** 3825 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).
- 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\\_017468.3](#), [NP\\_059496.1](#)

**RefSeq Size:** 5490 bp

**RefSeq ORF:** 3825 bp

**Locus ID:** 13801

**UniProt ID:** [O55196](#)

**Cytogenetics:** 5 E1

**Gene Summary:** Involved in the mineralization and structural organization of enamel. Involved in the extension of enamel during the secretory stage of dental enamel formation.[UniProtKB/Swiss-Prot Function]