

## Product datasheet for **MC217304**

### **Bace2 (NM\_019517) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Bace2 (NM_019517) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Bace2
Synonyms:	1110059C24Rik; A; AEPLC; AI850424; AL; ALP56; ARP1; AS; ASP1; ASP21; BAE; BAE2; CDA1; CDA13; CEA; CEAP1; DRAP
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC217304 representing NM\_019517  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGCGCGCTGCTTCGAGCACTCTTGCTCCCGGTGCTGGCGCAGTGGCTCTTGTAGTGGGTCCCGCGC  
 TGGCCCCCGGCCCTTACGCTGCCCTCCAAGTGGCCCGGCCACGAACCACAGAGCCTCGGCTGTTC  
 CGGACTCGGGACCCCGAGTTGCCCGGGCCGATGGTCTGGCCCTCGCACTGGAGCCTGTAGGGCTACT  
 GCCAACTTCTTGCTATGGTGGACAACCTTCAGGGGACTCTGGCCGCGGCTACTACCTAGAGATGCTGA  
 TCGGGACCCCTCCGAGAAGGTACAGATTCTTGTGGACTGGAAGCAGTAACTTCGCTGTGGCAGGTGC  
 CCCACTCTACATAGACACTACTTTGACTCAGAGAGCTCCAGCACATACCACTCCAAGGGCTTTGAT  
 GTCAGTGTGAAGTACACACAGGAAGCTGGACTGGCTTTGTTGGTGGAGCCTTGCACCATCCAAAAG  
 GCTTCAACAGCTTTTCTTGGTCAATATTGCCACTATTTTCGAGTCTGAGAATTTCTTTTGGCTGGTAT  
 TAAATGGAATGGAATCCTTGGACTTGCTTATGCTGCTTTGGCCAAGCCATCAAGCTCTCTGGAGACATTT  
 TTTGATCCCTGGTGGCCCAAGCAAAGATTCCAGACATTTTCTCCATGCAGATGTGCGGGGCTGGATTGC  
 CAGTAGCTGGTTCTGGTACCAACGGAGGTAGTCTTGTCTGGGTGGGATTGAACCAAGTTTGATAAAGG  
 AGATATCTGGTATACCCCAATTAAGAGGAATGGTACTATCAAATAGAAATCCTGAAGTTGGAATTGGA  
 GGCCAGAACCTCAACCTGGACTGCAGAGAGTATAACGCAGACAAGGCCATTGTGGACAGTGGCACCACGC  
 TCCTGCGCCTGCCCCAGAAGGTGTTGATGCAGTGGTGGAAAGCTGTGGCACGAACATCTCTGATTCCAGA  
 GTTTTCTGATGGCTTCTGGACAGGGGCCAGCTGGCATGCTGGACAAATCTGAAACGCCATGGGCATAT  
 TTCCCTAAGATTTCTATCTACCTGAGAGATGAGAATGCCAGTGCCTCCTCCGGATCACCATTCTCCCAC  
 AGCTCTACATTCAGCCCATGATGGGAGCTGGTTTCAATTATGAATGCTACCGTTTTGGTATCTCTCTTTC  
 CACAAATGCGCTGGTATTGGTGCAGCCGTGATGGAAGGCTTCTACGTGGTCTTTGACAGAGCTCAGAGG  
 AGGGTGGCTTTGCAGTGAATCCCTGTGCAGAGATTGAAGGTACCACAGTGTCTGAAATTTCTGGCCCT  
 TTTCCACGGAAGACATAGCCAGCAACTGTGTTCCAGCACAGGCTCTGAATGAGCCCATCTGTGGATTGT  
 GTCCTATGCCCTGATGAGTGTGTGGAGCATTCTCCTGGTTCTGATCCTCCTCTGCTGCCGCTG  
 CACTGCCGTCATGCCCCCGAGACCCTGAGGTAGTTAACGATGAGTCTCACTAGTCAGACATCGCTGGA  
 AATGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_019517

**Insert Size:** 1545 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\\_019517.5](#), [NP\\_062390.3](#)

**RefSeq Size:** 7686 bp

**RefSeq ORF:** 1545 bp

**Locus ID:** 56175

**UniProt ID:** [Q9JL18](#)

**Cytogenetics:** 16 C4

**Gene Summary:** This gene encodes a member of the peptidase A1 family of aspartic proteases. The encoded preproprotein undergoes proteolytic processing to generate an active endopeptidase enzyme. This transmembrane protease catalyzes the proteolysis of amyloid precursor protein to produce amyloid beta peptide. Mice lacking the encoded product exhibit increased pancreatic beta cell mass and improved glucose tolerance due to increased insulin secretion. [provided by RefSeq, Jul 2016]