

## Product datasheet for **MR220631**

### **Bace2 (NM\_019517) Mouse Tagged ORF Clone**

#### **Product data:**

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



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**ORF Nucleotide Sequence:**

>MR220631 representing NM\_019517  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGCGCGCTGCTTCGAGCACTCTTGCTCCCGGTGCTGGCGCAGTGGCTCTTGAGTGGGTCCCGCGC  
 TGGCCCCCGGCCCTTACGCTGCCCTCCAAGTGGCCCGGCCACGAACCACAGAGCCTCGGCTGTCC  
 CGGACTCGGGACCCCGAGTTGCCCGGGCCGATGGTCTGGCCCTCGCACTGGAGCCTGTAGGGCTACT  
 GCCAACTTCTTGCTATGGTGGACAACCTTCAGGGGACTCTGGCCGCGGCTACTACCTAGAGATGCTGA  
 TCGGGACCCCTCCGAGAAGGTACAGATTCTTGTGGCACTGGAAGCAGTAACTTCGCTGTGGCAGGTGC  
 CCCCACTCTACATAGACACCTACTTTGACTCAGAGAGCTCCAGCACATACCACTCCAAGGGCTTTGAT  
 GTCAGTGTGAAGTACACACAGGAAGCTGGACTGGCTTTGTTGGTGGAGCCTTGTACCATCCAAAAG  
 GCTTCAACAGCTCTTTCTTGGTCAATATTGCCACTATTTTCGAGTCTGAGAATTTCTTTTGCCTGGTAT  
 TAAATGGAATGGAATCCTTGGACTTGCTTATGCTGCTTTGGCCAAGCCATCAAGCTCTCTGGAGACATTT  
 TTTGATCCCTGGTGGCCCAAGCAAAGATTCCAGACATTTCTCCATGCAGATGTGCGGGCTGGATTGC  
 CAGTAGCTGGTCTGGTACCAACGGAGGTAGTCTTGTCTGGGTGGGATTGAACCAAGTTTGATAAAGG  
 AGATATCTGGTATACCCAATTAAGAGGAATGGTACTATCAAATAGAAATCCTGAAGTTGGAAATTGGA  
 GGCCAGAACCTCAACCTGGACTGCAGAGAGTATAACGCAGACAAGGCCATTGTGGACAGTGGCACCACGC  
 TCCTGCGCCTGCCCCAGAAGGTGTTGATGCAGTGGTGGAAAGCTGGCAGCAACATCTCTGATTCCAGA  
 GTTTTCTGATGGCTTCTGGACAGGGGCCAGCTGGCATGCTGGACAAATCTGAAACGCCATGGGCATAT  
 TTCCCTAAGATTTCTATCTACCTGAGAGATGAGAATGCCAGTCGCTCCTCCGGATCACCATTCTCCCAC  
 AGCTCTACATTCAGCCCATGATGGGAGCTGGTTTCAATTATGAATGCTACCGTTTTGGTATCTCCTCTTC  
 CACAAATGCGCTGGTGATTGGTGCAGCCGTGATGGAAGGCTTCTACGTGGTCTTTGACAGAGCTCAGAGG  
 AGGGTGGCTTTGCAGTGAAGTCCCTGTGCAGAGATTGAAGGTACCAAGTGTCTGAAATTTCTGGCCCT  
 TTTCCACGGAAGACATAGCCAGCAACTGTGTTCCAGCACAGGCTCTGAATGAGCCATCTTGTGGATTGT  
 GTCCTATGCCCTGATGAGTGTGTGGAGCCATTCTCCTGGTTCTGATCCTCCTCCTGCTGCCGCTG  
 CACTGCCGTCATGCCCCCGAGACCCTGAGGTAGTTAACGATGAGTCTCACTAGTCAGACATCGCTGGA  
 AA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR220631 representing NM\_019517  
 Red=Cloning site Green=Tags(s)

MGALLRALLLPVLAQWLLSAVPALAPAPFTLPLQVARATNHRASAVPGLGPELPRADGLALALEPVRAT  
 ANFLAMVDNLQGDSDGRGYYLEMLIGTPPKVQVILVDTGSSNFVAVAGAPHSYIDTYFDESSESSTYHSGKFD  
 VTKYQTQGSWTGFVGEDLVTIPKGFNSFLVNIATIFESENFPLPGIKWNGILGLAYAALAKPSSSLETF  
 FDSLVAQAKIPDIFSMQMGAGLPVAGSGTNGGSLVLGGIEPSLYKGDWYTPIKEEWYQIEILKLEIG  
 GQNLNLDREYNADKAI VDSGTTLLRLPQKVFDAVVEAVARTSLIPEFSDGFWTGAQLACWTNSETPWAY  
 FPKISIIYLRDENASRSFRITILPQLYIQPMMGAGFNYECYRFGISSSTNALVIGATVMEGFVVVFDRAQR  
 RVGFAVSPCAEIEGTTVSEISGPFSTEDIASNCVPAQALNEPILWIVSYALMSVCGAILLVLILLLLPL  
 HCRHAPRDPDEVNDESSLVRHRWK

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_019517

**ORF Size:** 1542 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\\_019517.5](#), [NP\\_062390.3](#)

**RefSeq Size:** 3736 bp

**RefSeq ORF:** 1545 bp

**Locus ID:** 56175

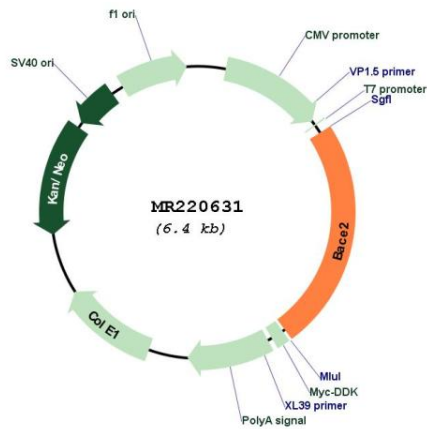
**UniProt ID:** [Q9JL18](#)

**Cytogenetics:** 16 C4

**MW:** 56.3 kDa

**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]

**Product images:**



Circular map for MR220631