

## Product datasheet for **RN205199**

### **Bace2 (NM\_001002802) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Bace2 (NM_001002802) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Bace2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN205199 representing NM\_001002802  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGCGCGCTGCTTCGAGCACTTTGCTCCCACTGCTGGCGCAGTGGCTCTTGC GCGCGGTCCCGTGC  
 TGGCCCCGGCGCCTTACGCTTCCCCTCCAAGTGGCCGGGGCCGGAACACAGAGCCTCAACTGTTCC  
 CGGGCTCGGGACCCCGAGTTGCCCGGGCTGATGGCCTGGCCCTCGCACTGGAGCCTGCCAGGGTACC  
 GCCAACTTCTTGCTATGGTGGACAATCTTCAGGGGACTCTGGCCGCGGCTACTACCTGGAGATGCTGA  
 TTGGGACCCCTCCGAAAAGGTACGGATTCTTGTGGACACCGGAAGCAGTAACTTCGAGTGGCAGGTGC  
 CCCACACTCTACATAGACACTACTTTGACTCAGAGAGCTCCAGCACATACCACTCCAAGGGCTTTGAG  
 GTCACGGTGAAGTACACACAGGGAAGCTGGACTGGATTTGTTGGTGAAGACCTTGCACCATCCAAAAG  
 GCTTCAACAGCTTTTCTTGGTCAATATTGCCACTATTTTCGAGTCTGAGAATTTCTTTTGGCTGGGAT  
 TAAGTGAATGGAATCCTTGGACTCGCTTATGCTGCCTTGGCCAAGCCATCAAGCTCTCTGGAGACTTTT  
 TTTGATTCCTTGGTGGCCCAAGCAAAAATTCGGACATTTTCTCCATGCAGATGTGCGGGGCTGGATTGC  
 CAGTAGCTGGATCTGGTACCAACGGAGGTAGTCTTGTCTGGGTGGGATTGAACCAAGTTTGATAAAGG  
 AGATATATGGTATACCCCAATTAAGAGGAATGGTACTATCAAATAGAGATCTTGAATTTGAAATTTGGA  
 GGCCAGAGCCTCAACCTGGACTGCAGAGAGTATAACGCAGACAAGGCCATTGTGGACAGCGCCACCACAC  
 TCCTGCGCCTGCCCCAGAAGGTGTTGATGCAGTGGTGGAAAGCCGTGGCACGCACATCTCTGATTCCAGA  
 GTTTTCTGATGGCTTCTGGACGGGGGCCAGCTGGCATGCTGGACAAATCTGAAACTCCATGGGCGTAT  
 TTCCCTAAGATTTCTATCTACCTGAGAGATGAGAACGCCAGTCTGCTTCCGAATCACCATTCTGCCGC  
 AGCTCTACATTCAGCCCATGATGGGAGCTGGTTTCAATTATGAGTGTACCGTTTTGGTATCTCTCTTTC  
 CACAAATGCGCTGGTATTGGTGGCACCGTGATGGAGGATTCTACGTGGTCTTTGACAGAGCTCAGAGG  
 AGGGTGGGCTTTGCAGTGAATCCCTGTGCAGAGATTGCAGGTACACAGTGTCTGAAATTTCTGGGCCCT  
 TTTCCACGGAAGACATAGCCAGCAACTGTGTTCCAGCACAGGCTCTGAATGAGCCATCTTGTGGATTGT  
 GTCCTATGCCCTGATGAGTGTGTGGAGCATTCTCCTGGTTCTGATCCTCCTGCTGCTTCCCGCTG  
 CACTGCCGACACGCCCCCGAGACCCTGAGGTGGTTAACGATGAATCCTCACTAGTCAGACATCGCTGGA  
 AATGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001002802

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001002802.1, NP_001002802.1</u>
<b>RefSeq Size:</b>	1545 bp
<b>RefSeq ORF:</b>	1545 bp
<b>Locus ID:</b>	288227
<b>UniProt ID:</b>	<u>Q6IE75</u>
<b>Cytogenetics:</b>	11q12
<b>Gene Summary:</b>	Responsible for the proteolytic processing of the amyloid precursor protein (APP). Cleaves APP, between residues 690 and 691, leading to the generation and extracellular release of beta-cleaved soluble APP, and a corresponding cell-associated C-terminal fragment which is later released by gamma-secretase. It has also been shown that it can cleave APP between residues 671 and 672 (By similarity). Responsible also for the proteolytic processing of CLTRN in pancreatic beta cells (By similarity).[UniProtKB/Swiss-Prot Function]