

## Product datasheet for **SC120577**

### **BACE1 (NM\_138972) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	BACE1 (NM_138972) Human Untagged Clone
Tag:	Tag Free
Symbol:	BACE1
Synonyms:	ASP2; BACE; HSPC104
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_138972, the custom clone sequence may differ by one or more nucleotides

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ATGGCCAAGCCCTGCCCTGGCTCCTGCTGTGGATGGGCGGGGAGTGCCTGCCACGGCACCCAGC
ACGGCATCCGGCTGCCCTGCGCAGCGGCTGGGGGGCGCCCCCTGGGGCTGCGGCTGCCCGGGAGAC
CGACGAAGAGCCCGAGGAGCCCGGCCGAGGGGCAGCTTTGTGGAGATGGTGGACAACCTGAGGGCAAG
TCGGGGCAGGGCTACTACGTGGAGATGACCGTGGGCGAGCCCCCGCAGACGCTCAACATCCTGGTGATA
CAGGCAGCAGTAACTTTCAGTGGGTGCTGCCCCACCCCTTCTGCATCGCTACTACCAGAGGCAGCT
GTCCAGCACATACCGGGACCTCCGGAAGGGTGTGTATGTGCCCTACACCCAGGGCAAGTGGGAAGGGGAG
CTGGGCACCGACCTGGTAAGCATCCCCATGGCCCAACGTCACCTGTGCGTGCCAACATTGCTGCCATCA
CTGAATCAGACAAGTTCTTCATCAACGGCTCCAAGTGGGAAGGCATCCTGGGGCTGGCCTATGCTGAGAT
TGCCAGGCTTTGTGGTGTGGCTTCCCCCTCAACCAAGTCTGAAGTGTGGCCTCTGTGCGAGGGAGCATG
ATCATTGGAGGTATCGACCACTCGTGTACACAGGCAGTCTCTGGTATACACCCATCCGGCGGGAGTGGT
ATTATGAGGTGATCATTGTGCGGGTGGAGATCAATGGACAGGATCTGAAAATGGACTGCAAGGAGTACAA
CTATGACAAGAGCATTGTGGACAGTGGCACCACCAACCTTCGTTTGCCAAGAAAGTGTGTTGAAGCTGCA
GTCAAATCCATCAAGGCAGCCTCCACGAGGAGTCCCTGATGGTTTCTGGCTAGGAGAGCAGCTGG
TGTGCTGGCAAGCAGGCACCACCCCTTGGAAACATTTTCCAGTCACTCACTCTACCTAATGGGTGAGGT
TACCAACCAGTCTTCCGCATCACCATCCTTCCGCAGCAATACCTGCGGCCAGTGGAAAGATGTGGCCACG
TCCAAGACGACTGTTACAAGTTTGCCATCTCACAGTCAATCCAGGGCACTGTTATGGGAGCTGTTATCA
TGGAGGGCTTCTACGTTGTCTTTGATCGGGCCGAAAACGAATTGGCTTTGCTGTGAGCGCTTGCATGT
GCACGATGAGTTCAGGACGGCAGCGGTGGAAGGCCCTTTTGTACCTGGACATGGAAGACTGTGGCTAC
AACATTCCACAGACAGATGAGTCAACCCTCATGACCATAGCCTATGTCATGGCTGCCATCTGCGCCCTCT
TCATGCTGCCACTCTGCCTCATGGTGTGTGTCAGTGGCGCTGCCTCCGCTGCCTGCGCCAGCAGCATGATGA
CTTTGCTGATGACATCTCCCTGTGAAGTGA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_138972 unedited TACTATAGGGGCGGCCGGAATTCGCACGAGGTGCGGATCTCCCCTGACCGCTCTCCACA GCCCCGACCCGGGGGCTGGCCCAGGGCCCTGCAGGCCCTGGCGTCCTGATGCCCCAAGC TCCCTCTCTGAGAAGCCACCAGCACCACCCAGACTTGGGGGCAGGCGCCAGGGACGGAC GTGGGCCAGTGCAGCCCAGAGGGCCCCAAGGCCGGGGCCACCATGGCCCAAGCCCTGC CCTGGCTCTCTGTGGATGGGCGCGGAGTGTGCTGCCACGGCACCAGCAGCGCA TCCGGCTGCCCCCTGCGCAGCGGCTGGGGGGCGCCCCCTGGGGCTGCGGCTGCCCGGG AGACCGACGAAGAGCCCGAGGAGCCCGCCGGAGGGGCAGCTTTGTGGAGATGGTGGACA ACCTGAGGGGCAAGTCGGGGCAGGGCTACTACGTGAGATGACCGTGGGACGCCCCCGC AGACGCTCAACATCCTGGTGGATACAGGCAGCAGTAACCTTGCAGTGGGTGCTGCCCCCC ACCCCTTCTGCATCGCTACTACCAGAGGCAGTGTCCAGCACATACCGGGACCTCCGGA AGGGTGTGTATGTGCCCTACACCAGNGCAAGTGGGAAGGGGAGCTGGGCACCGACTGT TAAGCATTCCCCATGGCCCCAACGTCACTGTGCGTGCCACATTGCTGCCATCACTGAAT CANACAGTTCTTCATCAACGGCTCCACTGGNGAAGCATCCTGGGGCTGGCCTATGCTGA GATGCCAAGCCTGACACTCCCTGGAGCCTTTNTTTGACTCTCTGGTAAGCAGAACCACG TTCCAACCTCTCTCCTGCACCTTTGGG
<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_138972 unedited GGAATATTATGNACGCGCCGATTCTANNATCGAGTTTTTTTTTTTTTTTTTTTTTTTT CTTATTGAATATTTTACTGTGTTAACGCTCATTATTTATACAGACATTAGGTTTACAGAA TATTCTGTTTTACATACCAAAATTCACAGTCCGAGAATAACAACATAACCAGTCCCAA TTCCTCCATGCACCCACAAGCTTCTGTCCACCCTATTTCTGGACAGAAATTAGCACAA CCCACAGGTTTTCTGGGCAAGTCTTCCTTTGCTGCCACTGTCTGGCTTCTAATCAA GCTCTGACAGGCCAACATTGTGAAGTCTCACCTTTCCATTCACTTCTGGTCTCTAG TCTAGCTAATCCCCCTCCCCAGAAGGTTAAGGCAGTTGGTTCACAACCAAGTTGTTGG TGACCTTGGGTGAGCTCCAGACAGGCACTGGGGTGAGGAGATGTCTGTGCAAAATTA GTAGAATGATCTTGGGATGCTGGATTTAATTTTTGAAGCAAGAAAGTTAGGGGGGACA TATTTCTGTCTGGGAAAAATGGAGACCAAAGTGATATTAAGAAAGTAGTTTGGATTT AAATTTATAAATCACTTGTCTGTGGGTAGCTATCAGGAACTAGATCATTTTCCACCTCT GCTTATTGACTTCTTAATTTTAGGTTTTATACCTGGGAAAGCTGTGACTCTATTAGAGC TTTGAATCTTTTCTATCCTTTTATCTTACTCTACAGGGAATGGCCTCAGCTCCCTTC TCTTTTAGATTAACAAGTAAAACTAAGAGTTAACTTTTTAAAAAACTGACTCCCGGG AAAGGACATTATTATACCAATAGCTGATTTTTTTTTTTCATTCTGGGACCTAAAAGCT TACAGTACTAN
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_138972
<b>Insert Size:</b>	5650 bp
<b>OTI Disclaimer:</b>	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).
<b>RefSeq:</b>	<a href="#">NM_138972.2</a> , <a href="#">NP_620428.1</a>
<b>RefSeq Size:</b>	5775 bp
<b>RefSeq ORF:</b>	1431 bp
<b>Locus ID:</b>	23621
<b>UniProt ID:</b>	<a href="#">P56817</a> , <a href="#">A0A024R3E8</a>

<b>Domains:</b>	asp
<b>Protein Families:</b>	Druggable Genome, Protease, Transmembrane
<b>Protein Pathways:</b>	Alzheimer's disease
<b>Gene Summary:</b>	<p>This gene encodes a member of the peptidase A1 family of aspartic proteases. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the mature protease. This transmembrane protease catalyzes the first step in the formation of amyloid beta peptide from amyloid precursor protein. Amyloid beta peptides are the main constituent of amyloid beta plaques, which accumulate in the brains of human Alzheimer's disease patients. [provided by RefSeq, Nov 2015]</p> <p>Transcript Variant: This variant (b) has an alternate splice site in the coding region, compared to variant a. The resulting isoform (B) lacks an internal segment, compared to isoform A. This isoform (B) may not undergo proteolytic processing similar to isoform A.</p>