

Product datasheet for **SC320428**

BACE2 (NM_012105) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BACE2 (NM_012105) Human Untagged Clone
Tag:	Tag Free
Symbol:	BACE2
Synonyms:	AEPLC; ALP56; ASP1; ASP21; BAE2; CDA13; CEAP1; DRAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_012105.3
 GCCCCGCGCGCCGGCCGAGTTCGCTGAGCCGCGGCTGCCGGACGGGACGGGACCGGCTAGG
 CTGGGCGCGCCCCCGGGCCCGCGTGGGCATGGGCGCACTGGCCCGGGCGCTGCTGCT
 GCCTCTGCTGGCCAGTGGCTCCTGCGCGCCGCCCGGAGCTGGCCCGCGCCCTTAC
 GCTGCCCTCCGGGTGGCCGCGGCCACGAACCGCGTAGTTGCGCCACCCCGGGACCCGG
 GACCCCTGCCGAGCGCCACGCCACGGCTTGGCGCTCGCCCTGGAGCCTGCCCTGGCGTC
 CCCCAGGGGCGCCCAACTTCTTGGCCATGGTAGACAACCTGCAGGGGACTCTGGCCG
 CGGCTACTACCTGGAGATGCTGATCGGGACCCCGCAGAAGCTACAGATTCTCGTTGA
 CACTGGAAGCAGTAACTTTGCCGTGGCAGGAACCCGCACTCCTACATAGACACGTA
 TGACACAGAGAGGTCTAGCACATACCGCTCCAAGGGCTTTGACGTACAGTGAAGTACAC
 ACAAGGAAGCTGGACGGGCTTGGTGGGAAGACCTCGTCACCATCCCCAAAGGCTTCAA
 TACTTCTTTTCTGTCAACATTGCCACTATTTTGAATCAGAGAATTTCTTTTGCCTGG
 GATTAATGGAATGGAATACTTGGCCTAGCTTATGCCACACTGCCAAGCCATCAAGTTC
 TCTGGAGACCTTCTCGACTCCCTGGTGCACAAAGCAACATCCCCAACGTTTTCTCCAT
 GCAGATGTGTGGAGCCGGCTTGGCCGTTGCTGGATCTGGGACCAACGGAGGTAGTCTTGT
 CTTGGGTGGAATTGAACCAAGTTTGTATAAAGGAGACATCTGGTATACCCCTATTAAAGGA
 AGAGTGGTACTACCAGATAGAAATTCTGAAATTGAAATTGGAGGCCAAAGCCTTAATCT
 GGACTGCAGAGAGTATAACGCAGACAAGGCCATCGTGGACAGTGGCACCACGCTGCTGCG
 CCTGCCCCAGAAGGTGTTTATGCGGTGGTGGAAAGCTGTGGCCCGCGCATCTCTGATTCC
 AGAATTCTCTGATGGTTTCTGGACTGGTCCCAGCTGGCGTGTGGACGAATTCGAAAC
 ACCTTGGTCTTACTTCCCTAAAACTCCATCTACCTGAGAGATGAGAATCCAGCAGGTC
 ATTCCGTATCACAATCCTGCCTCAGCTTACATTACAGCCATGATGGGGCCGGCCTGAA
 TTATGAATGTTACCGATTCCGCAATTTCCCATCCACAAATGCGCTGGTATCGGTGCCAC
 GGATGAGGGGCTTCTACGTCATCTTCGACAGAGCCCAAGAGGGTGGGCTTCGCAGC
 GAGCCCTGTGCAGAAATTGCAGGTGCTGCAGTGTCTGAAATTTCCGGGCCTTTCTCAAC
 AGAGGATGTAGCCAGCAACTGTGTCCCGCTCAGTCTTTGAGCGAGCCATTTTGTGGAT
 TGTGTCTATGCGCTCATGAGCGTCTGTGGAGCCATCCTCCTTGTCTTAATCGTCCTGCT
 GCTGCTGCCGTTCCGGTGTGAGCGTGCAGCGTGCAGCGTGCAGCGTGCAGCGTGCAGCGT
 CTCTCTGGTCAGACATCGCTGAAATGAATAGCCAGGCTGACCTCAAGCAACCATGAAC
 TCAGCTATTAAGAAAATCACATTTCCAGGGCAGCAGCCGGATCGATGGTGGCGCTTCT
 CCTGTGCCACCCGCTTCAATCTGTCTGCTCCAGATGCCTTCTAGATTACTGTGTC
 TTTTGATTCTTGATTTTCAAGCTTTCAAATCCTCCTACTTCCAAGAAAAAAAAAAAAA
 AAAA

Restriction Sites: Please inquire

ACCN: NM_012105

Insert Size: 2000 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:	<ol style="list-style-type: none">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_012105.3 , NP_036237.2
RefSeq Size:	2993 bp
RefSeq ORF:	1557 bp
Locus ID:	25825
UniProt ID:	Q9Y5Z0
Cytogenetics:	21q22.2-q22.3
Domains:	asp
Protein Families:	Druggable Genome, Protease, Transmembrane
Protein Pathways:	Alzheimer's disease
Gene Summary:	<p>This gene encodes an integral membrane glycoprotein that functions as an aspartic protease. The encoded protein cleaves amyloid precursor protein into amyloid beta peptide, which is a critical step in the etiology of Alzheimer's disease and Down syndrome. The protein precursor is further processed into an active mature peptide. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]</p> <p>Transcript Variant: This variant (a) represents the longest transcript and encodes the longest isoform (A). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>