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Product datasheet for SC127678

BACE2 (NM_138992) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BACE2 (NM_138992) Human Untagged Clone
Tag:	Tag Free
Symbol:	BACE2
Synonyms:	AEPLC; ALP56; ASP1; ASP21; BAE2; CDA13; CEAP1; DRAP
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC127678 sequence for NM_138992 edited (data generated by NextGen Sequencing)

ATGGGCGCACTGGCCCGGGCGCTGCTGCTGCCTCTGCTGGCCCAGTGGCTCCTGCGCGCC
GCCCCGGAGCTGGCCCCCGCGCCCTTCACGCTGCCCCTCCGGGTGGCCGCGGCCACGAAC
CGCGTAGTTGCGCCCACCCCGGGACCCGGGACCCCTGCCGAGCGCCACGCCGACGGCTTG
GCGCTCGCCCTGGAGCCTGCCCTGGCGTCCCCCGCGGGCGCCGCCAACTTCTTGGCCATG
GTAGACAACCTGCAGGGGGACTCTGGCCGCGGCTACTACCTGGAGATGCTGATCGGGACC
CCCCCGCAGAAGCTACAGATTCTCGTTGACACTGGAAGCAGTAACTTTGCCGTGGCAGGA
ACCCCGCACTCCTACATAGACACGTACTTTGACACAGAGAGGTCTAGCACATACCGCTCC
AAGGGCTTTGACGTCACAGTGAAGTACACACAAGGAAGCTGGACGGGCTTCGTTGGGGAA
GACCTCGTCACCATCCCCAAAGGCTTCAATACTTCTTTTCTTGTCAACATTGCCACTATT
TTTGAATCAGAGAATTTCTTTTTGCCTGGGATTAAATGGAATGGAATACTTGGCCTAGCT
TATGCCACACTTGCCAAGCCATCAAGTTCTCTGGAGACCTTCTTCGACTCCCTGGTGACA
CAAGCAAACATCCCCAACGTTTTCTCCATGCAGATGTGTGGAGCCGGCTTGCCCGTTGCT
GGATCTGGGACCAACGGAGGTAGTCTTGTCTTGGGTGGAATTGAACCAAGTTTGTATAAA
GGAGACATCTGGTATACCCCTATTAAGGAAGAGTGGTACTACCAGATAGAAATTCTGAAA
TTGGAAATTGGAGGCCAAAGCCTTAATCTGGACTGCAGAGAGTATAACGCAGACAAGGCC
ATCGTGGACAGTGGCACCACGCTGCTGCGCCTGCCCCAGAAGGTGTTTGATGCGGTGGTG
GAAGCTGTGGCCCGCGCATCTCTGATTCCAGAATTCTCTGATGGTTTCTGGACTGGGTCC
CAGCTGGCGTGCTGGACGAATTCGGAAACACCTTGGTCTTACTTCCCTAAAATCTCCATC
TACCTGAGAGAYGAGAACTCCAGCAGGTCATTCCGTATCACAATCCTGCCTCAGAAATTG
CAGGTGCTGCAGTGTCTGAAATTTCCGGGCCTTTCTCAACAGAGGATGTAG

Clone variation with respect to NM_138992.1
1092 c=>y

View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_138992 unedited
GTAACACGACTTACTATAGGGCGGCCGCGCAATTCGCACGAGGGCCCCGCGCGCCGGCCG
AGTCGCTGAGCCGCGGCTGCCGGACGGGACGGGACCGGCTAGGCTGGGCGCGCCCCCCGG
GCCCCGCCGTGGGCATGGGCGCACTGGCCCGGGCGCTGCTGCTGCCTCTGCTGGCCCAGT
GGCTCCTGCGCGCCGCCCCGGAGCTGGCCCCCGCGCCCTTCACGCTGCCCCTCCGGGTGG
CCGCGGCCACGAACCGCGTAGTTGCGCCCACCCCGGGACCCGGGACCCCTGCCGAGCGCC
ACGCCGACGGCTTGGCGCTCGCCCTGGAGCCTGCCCTGGCGTCCCCCGCGGGCGCCGCCA
ACTTCTTGGCCATGGTAGACAACCTGCAGGGGGACTCTGGCCGCGGCTACTACCTGGAGA
TGCTGATCGGGACCCCCCCGCAGAAGCTACAGATTCTCGTTGACACTGGAAGCAGTAACT
TTGCCGTGGCAGGAACCCCGCACTCCTACATAGACACGTACTTTGACACAGAGAGGTCTA
GCACATACCGCTCCAAGGGCTTTGACGTCACAGTGAAGTACACACAAGGAAGCTGGACGG
GCTTCGTTGGGGAAGACCTCGTCACCATCCCCAAAGGCTTCAATACTTCTTTTCTTGTCA
ACATTGCCACTATTTTTGAATCAGAGAATTTCTTTNTGCCTGGGATTAAATGGAATGGAA
TACTTGGCCTAGCTTATGCCACACTTGCCAAGCCATCANAGTCTCTGGAGACCTTCTTCG
ACTCCCTGGTGACACAAGCAAACATCCCCAACGTTTTCTCCATGCAGATGTGTGGAGCCC
GCTTGCCCGTTGCTGGATCTGGGACCCACGGNAGTAGTCTGTCTTGGNTGGAANTGAACA
AGTTGTATAAAGAGACATCTGTATACCCT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_138992 unedited
GGCCGCATTTTAGAGTCGAGTTTTTTTTTTTTTTTTTCTTGGAAGTAGGGAGGATTTGA
AAGCTTGAAAATCAAGAATCAAAAGACAGTGAATCTAGAAGGCATCTGGGAGCAGAACAG
AGATTGAAGACGGGTGGGCACAGGAGAAAGCGCCACCATCGATCCCGGCTGCTGCCCTGG
AAATGTGATTTTCTTAATAGCTGAGTTCATGGTTGCTTGAGGTCAGGCCTGGCTATTCAT
TTCCAGCGATGTCTGACCAGAGAGGACTCATCATTGACGACCTCAGGGTCACGGGGGCGA
CGCTGACACCGGAACGGCAGCAGCAGGACGATTAAGACAAGGAGGATGGCTCCACAG
ACGCTCATGAGCGCATAGGACACAATCCACAAAATGGGCTCGCTCAAAGACTGAGCGGGG
ACACAGTTGCTGGCTACATCCTCTGTTGAGAAAGGCCCGGAAATTTCAGACACTGCAGCA
CCTGCAATTTCTGCACAGGGGCTCGCTGCGAAGCCCACCCTCTTCTGGGCTCTGTCGAAG
ATGACGTAGAAGCCCTCCATCACCGTGGCACCAATCACCAGCGCATTTGTGGATGGGGAA
ATGCCGAATCGGTAACATTCATAATTCAGGCCGGCCCCCATCATGGGCTGAATGTAAAGC
TGAGGCAGGATTGTGATACGGAATGACCTGCTGGAGTTCTCGTCTCTCAGGTAGATGGAG
ATTCTAGGGAAGTAAGACCAAGGTGTTCCGAATTCGTCCAGCACGCCAGCTGGGACCCAG
TCCAGAAACCATCAGNAGAATTCTGGGAATCAGAGATGCGCGGNCCCACAGCTTTCACCA
CCGCATCAAACACCTTCTGGGGCGCAGCCGCACAACGTGGTGGCACTGTCCACNATGCCC
TGCTTGCGNATACTTTTTGCAGCCAGATTAAGCTTTGGCCTCCATTCCAATTTCAGATTC
TTATTGTAGACN

Restriction Sites: NotI-NotI

ACCN: NM_138992

Insert Size: 1920 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_138992.1, NP_620477.1
RefSeq Size:	2824 bp
RefSeq ORF:	1191 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:	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] Transcript Variant: This variant (b) lacks an exon in the 3' coding region, which results in a frameshift, compared to variant a. The encoded isoform (B) is shorter and has a distinct C-terminus, compared to 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.