

Specifications:

| | |
|----------------|------------------|
| Gene: | hBACE1 |
| Accession: | NP_036236.1 |
| Insert size: | 1519bp |
| Concentration: | 10µg at 0.2µg/µL |

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

| | |
|-------------|---|
| Formulation | cDNA is provided in 10 mM Tris-Cl, pH 8.5 |
| Shipping | Ships at ambient temperature |
| Stability | 1 year from date of receipt when stored at -20°C to -80°C |
| Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. |

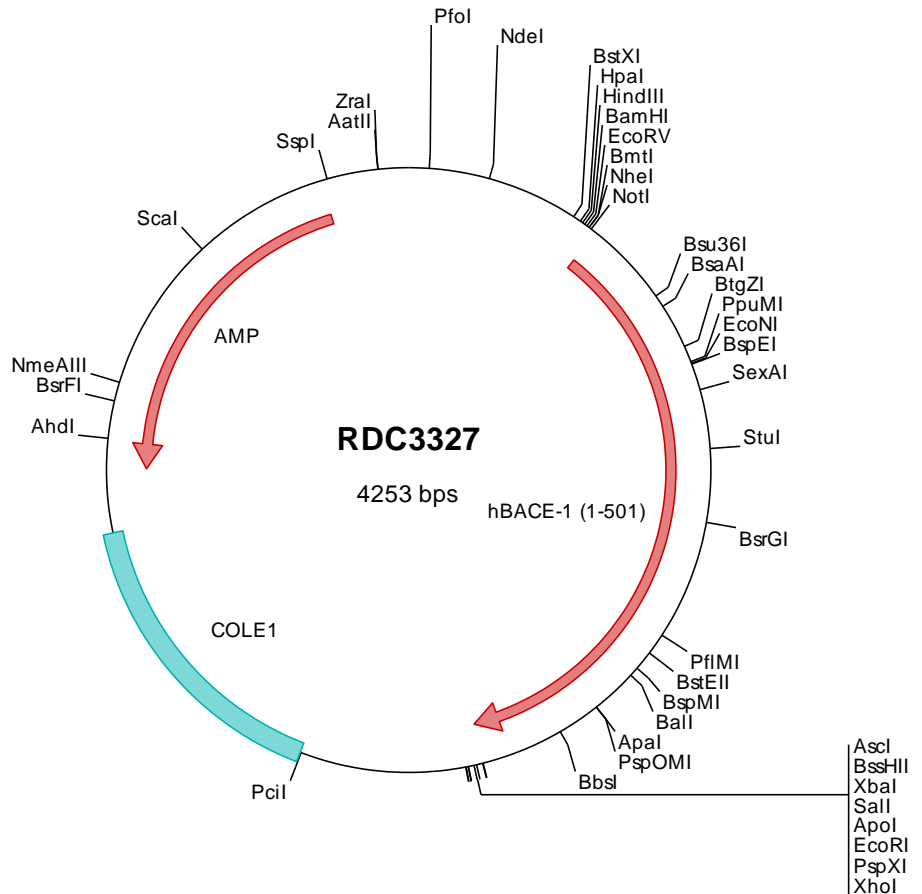
hBACE-1 cDNA Plasmid

BACE1 beta-secretase 1 [*Homo sapiens* (human)]

Also known as: ASP2; BACE; HSPC104

Summary:

BACE-1 is a member of the peptidase A1 family of aspartic proteases. 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. Alternatively spliced transcripts encoding different proteins have been described.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC3327 Plasmid DNA Sequence

```

1 tcgctgctgtt cggatgatgac ggtgaaaacc totgacacat gcagctcccc gagacgggtca cagcttgtct gtaagcggat gccggggagca gacaagcccc
101 tcaggggcgcg tcagcgggtg ttggcgggtg tcggggctgg ctttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201 ccgcacacgat gcgtaaggag aaaataccgc atcaggcgcc attgccatt caggctcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
301 tacgccagct ggcgaaaagg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
401 ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atggccoaag cctcgccctg gctcctgtg tggatggcg cgggagtgc
501 gctgcccac ggcacccagc acggcatccg gctgcccctg cgcagcggcc tggggggcgc cccctggggg ctgcggtgct cccgggagac cgcacgaagag
601 cccgaggagc ccggccggag gggcagcttt gtggagatgg tggacaacct gaggggcaag tgggggcagg gctactacgt ggagatgacc gtgggcagcc
701 ccccgacac gctcaacatc ctgggtgata caggcagcag taactttgca gtgggtgctg cccccacccc ctctctgcat cgtactacc agaggcagct
801 gtccagcaca tacccggacc tccggaaggg tgtgtatgtg ccctacaccc agggcaagtg ggaaggggag ctggggcacc acctggttaag catcccccat
901 ggccccaacg tcactgtgct tgccaacct gctgccatca ctgaaatcaga caagtctctc atcaacggct ccaactggga aggcactctg gggctggcct
1001 atgtgagat tgccaggctt gacgactccc tggagccttt ctttgaactct ctggtaaagc agaccacgt tcccacccc tctcccctgc agctttgtgg
1101 tgctggtctc cccctcaacc agtotgaagt gctggcctct gtcggaggga gcatgatcat tggaggatac gaccactcgc tgtacacagg cagtctctg
1201 tatacaccca tccggcggga gtggtattat gagggtatca ttgtgcccgt ggagatcaat ggacaggata tgaaaatgga ctgcaaggag tacaactatg
1301 caaagagcat ttgtggcagt ggcacacca acctctgctt gcccaagaaa gtgtttgaa gtcagctcaa atccatcaag gcagcctccc ccaaggagaa
1401 gttccctgat ggtttctggc taggagagca gctggtgtgc tggcaagcag gcacaccccc ttggaacatt tcccagtcga tctcaactota cctaatgggt
1501 gaggttacca accagctcct cgcactccc atocctccc agcaatacct gggccagctg gaagatgtgg ccacgtccc agacgactgt tacaagttg
1601 ccactccagc gctcaacatc ctgggtgata tggggctgta taccattcag gctctctcag ttgtctttga tggggcccga aaacgaattg gctttctgt
1701 cagcgtctgc catgtgcaag atgagtccag gacggcagcg gtggaagccc cttttgtcac ctgtggactg gaagactgtg gctacaacat tccacagaca
1801 gatgagtcga ccctatgac catagctcat gtcattggct ccatctgccc cctcttcctg ctgcccactc gctcactggt gtgctagttg cctgctccc
1901 gctgctcgg ccacgacat gatgactttg ctgattgacat ctccctgtg aagtaaagcg gcgccagtat actctagagt cgacacccgg ggaattcctc
2001 gagcgtcctg ctctagcttg gcgtaatcat ggtcatagct gtttctctgt tgaattgttt atccgctcac aattccacac aacatacagc ccggaagcat
2101 aaagtgtaaa tcctgggggt cctaatgagt gagctaacct acatttaatt cgttgcgctc actgcccgct ttccagtcgg gaaactgtc gtgccagctg
2201 cattaatgaa cggcccaacg cgcggggaga ggcggtttgc gatttggcgg ctcttccgct tctcgcctca ctgactcgt gcgctcggtc gttcggctgc
2301 ggcgagcgtg atcagctcac tcaaaaggcg taatacggtt atccacagaa tcaggggata acgcagggaa gaacatgtga gcaaaaaggc agcaaaagc
2401 caggaaaccg aaaaaggccg cttgtctggc gttttccat aggtcccgcg cccctgacga ccatcaca aaatcgacct caagtaagag gtggcgaac
2501 ccgacaggac tataaaagata ccaggcgttt ccccctggaa ctccctcctg gcgctctcct gttccgacct tgccgcttac cggtaacctg tccgctcttc
2601 tcccttcggg aagcgtggcg ctttctcaat gctcacgctg taggtatctc agttcgtgtt aggtcgttct cccaagctg gctggtgtgc acgaaacccc
2701 cgttcaagcc gacgctgctg cttatccgg taactatcgt ttgagttcca acccgctaa acacgactta tgcactggtg cgcagccac ggtaaacag
2801 attagcagag ccagggtatgt aggcgggtct acagagtct tgaagtgtg gcctaactac ggctacacta gaaggacagt atttggatc tgcctctgc
2901 tgaagccagt taccttcgga aaaagagttg gtagctctgt atccggcaaa caaacaccg ctggtagcgg tggtttttt gtttgaagc agcagattc
3001 gcgcagaaaa aaaggatctc aagaagatcc tttgatcttt tctacggggt ctgacgctca aactcacggt aagggatttt ggtcatgaga
3101 ttatcaaaaa ggatcttccac ctatagctctt ttaaaataaa aatgaagtt taaatcaatc taaagtatat atgagtaaac ttggtctgac agttaccaat
3201 gcttaatcag tgaggcact atctcagcga tctgtctatt tcgttcatcc atagttgctt gactccccgt cgtgtagata actacgatac gggagggtct
3301 accatctggc cccagtctg caatgatacc gcgagacca cgtccaccgg ctccagatt atcagcaata aaccagccag ccggaaggcc cgcagccaga
3401 agtggctcct caactttatc cgcctccatc cagtctatta atgtgtcgg ggaagctaga gtaagtatt cgccagttaa tagtttgcgc aacgttgtg
3501 ccattgctac aggcactggt gtgtcacgct cgtcgtttgg tatgcttca ttcagctcgg gttcccacg atcaaggcga gttacatgat cccccatgtt
3601 gtgcaaaaaa gcggttagct ccttcggctc tcogactggt gtcagaagta agttggccgc agtgttatca ctcatggtta tggcagcact gcataattct
3701 cttactgtca tgccatccgt aagatgcttt tctgtgactg gtgagtactc aaccaagtc tcttgagaat agtgtatcgg gcgaccgagt tgcctctgcc
3801 cggcgtcaat acgggataat accgcgccac atagcagaac tttaaaagtg ctcatcattg gaaaacgttc ttcggggcga aaactctcaa ggtatctacc
3901 gctgttgaga tccagttcga tghtaaccac tcgtgcaccc aactgatctt cagcatcttt tactttcacc agcgtttctg ggtgagcaaa aacaggaagg
4001 caaaatgccg caaaaaagg aataagggcg acacggaaat gttgaatact catactcttc ctttttcaat attattgaag catttatcag ggtattgtc
4101 tcatgagcgg atacatattt gaatgtattt agaaaaataa acaaataggg gttcccgcga catttcccgg aaaagtgcc cctgacgtct aagaaacct
4201 tattatcatg acattaacct ataaaaatag gcgtatcacg aggcctttc gtc

```

> RDC3327 Translated Insert Sequence

```

1 maqalpwlll wmgagvlpah gtqhgirllp rslggaplg lrlpretdee peepgrgsf vemvdnlrgk sggyyyvemt vgsppqtlni lvdgtssnfa
101 vgaaphpflh ryyqrqlsst yrdirkgvvy pytgkwewe lgtdlvsiph gpnvtvrani aaitesdkff ingsnwegil glayaeiarp ddslepffds
201 lvkqthvpln fslqlcagaf plnqsevlav vggsmiiggi dhslytgsiw ytpirrewy eviivrvein gqdlkmdcke ynydksivds gttnlrlpkk
301 vfeavksik aasstekfpd gfwlgeqlvc wqagttpwni fpvislylmg evtngsfrit ilpqyylrpv edvatsqddc ykfaisqsst gtvmgavime
401 gfyvvdrrar krigfavsac hvhdefrtaa vegpfvtldm edcgynipqt destlmtiay vmaaicalfm lplclmvqcw rclrlclrqhh ddfaddisll
501 k

```