

Specifications:

Gene:	<i>hBACE2</i>
Accession:	NP_036237.2
Insert size:	1570bp
Concentration:	10µg at 0.2µg/µL

hBACE-2 cDNA Plasmid

BACE2 beta-secretase 2 [*Homo sapiens* (human)]

Also known as: ASP1; BAE2; DRAP; AEPLC; ALP56; ASP21; CDA13; CEAP1

Summary:

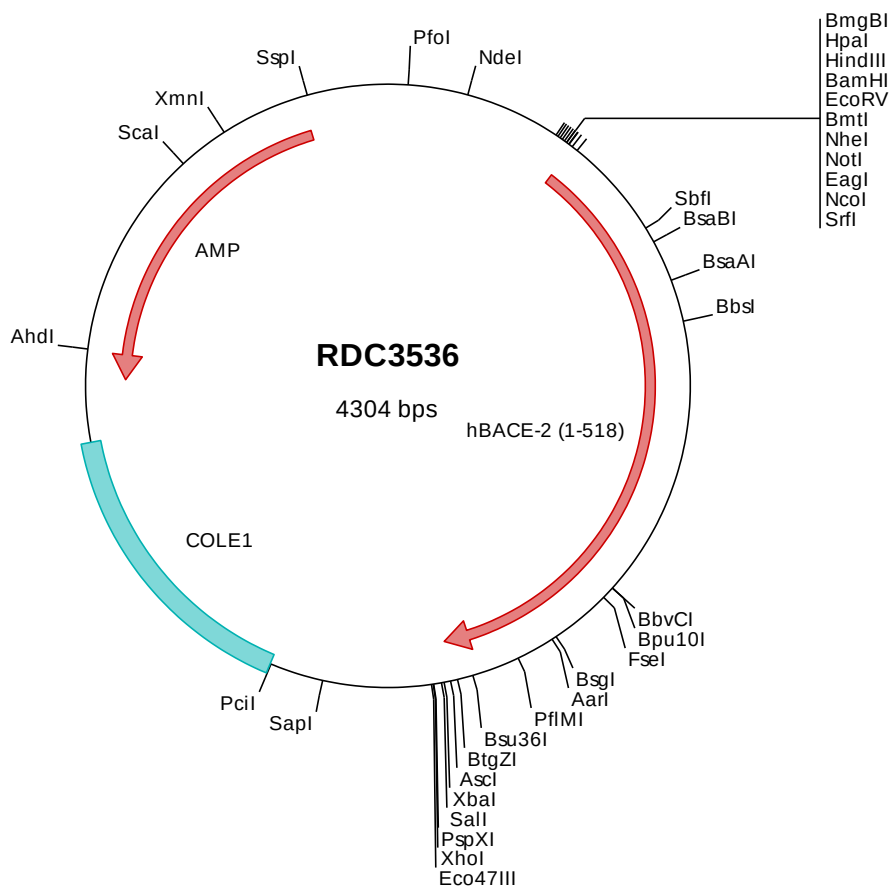
BACE2 is an integral membrane glycoprotein that functions as an aspartic protease. BACE2 cleaves amyloid precursor protein into amyloid beta peptide, which is a critical step in the etiology of Alzheimer's disease and Down syndrome. It is further processed into an active mature peptide. Alternative splicing results in multiple transcript variants.

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.



> RDC3536 Plasmid DNA Sequence

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1   tcgcgcgcttt cggatgatgac ggtgaaaacc tctgacacat gcagctcccc gagacgggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
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201  ccgcacacgat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
301  tacgccagctt ggcgaaaagg ggaatgtctg caaggcgatt aagttgggta acgccagggt tttcccgatc acgacgttgt aaaacgacgg ccagtgtaatt
401  ggagacgtgt taacaagctt ggaatcgata tcgctagcgc ggccgcacac atggggcgac tggcccgggc tctgtgtgtg cctctgtgtg cccagtggct
501  cctgcgcgccc gcccccgagg tggccccccg gcccttcacg ctgccccctc ggtgtggcgc gccacgaaac cgcgtagtgt cgcgcccccc gggacccggg
601  acccctgcgc agcgcacacg cgaaggcttg gcgctgcgcc tggagctgc cctggcggtca cccgcgggcg ccgccaactt cttggctatg ttagacaacc
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801  cgtggcagga accccgcact cctacataga cagctacttt gacacagaga ggtctagcac ataccgctcc aagggctttg acgtcacagt gaagtacaca
901  caaggaagct ggaagggttt cgttggggaa gacctcgta ccatcccaa aggttcaat acttcttttc ttgtcaacat tgcactattt tttgaatcag
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> RDC3536 Translated Insert Sequence

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201  yatlakpsss letffdslyt qanipnvfsm qmcgaglpva gsgtnggslv lggiapslyk gdiwytpike ewyyqieilk leiggqslnl dcreynadka
301  ivdsgtlllr lpqkvfdavv eavaraslip efsdgfwts qlacwnset pwsyfpkisi ylrdenssrs fritilpqly iqpmmgagln yecyrfgis
401  stnalvigat vmegfyvifd raqkrvgfaa spcaeiaaga vseisgpfst edvasncvpa qslsepilwi vsyalmsvcg aillvlivll llpfrcqrpr
501  rdpvvnndes slvrhrwk

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