

Specifications:

Gene:	mAce
Accession:	NP_997507.1
Insert size:	3952bp
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.

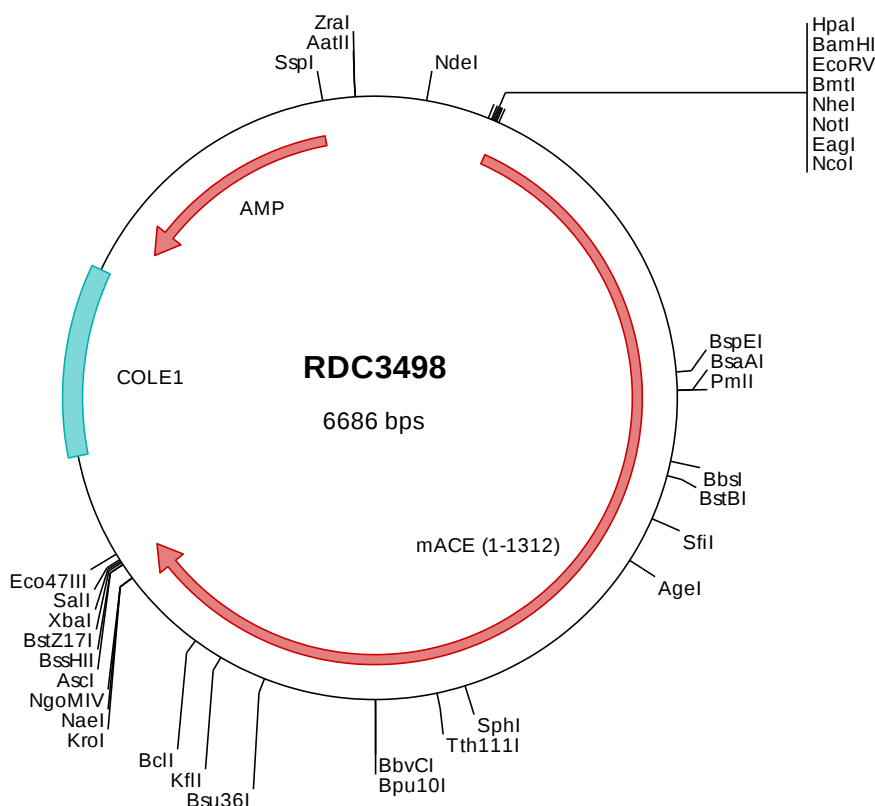
mACE cDNA Plasmid

Ace angiotensin I converting enzyme (peptidyl-dipeptidase A) 1 [*Mus musculus* (house mouse)]

Also known as: CD143; AW208573

Summary:

ACE is an enzyme involved in blood pressure regulation and electrolyte balance. It catalyzes the conversion of angiotensin I into a physiologically active peptide angiotensin II. Angiotensin II is a potent vasopressor and aldosterone-stimulating peptide that controls blood pressure and fluid-electrolyte balance. ACE also inactivates the vasodilator protein, bradykinin. Accordingly, it increases blood pressure and is a drug target of ACE inhibitors, which are often prescribed to reduce blood pressure. Regulation of the homologous ACE2 gene may be involved in progression of disease caused by several human coronaviruses, including SARS-CoV and SARS-CoV-2.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC3498 Plasmid DNA Sequence

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201  ccgcacacgat gcgtaaggag aaaataccgc atcaggcgcc aggttgggta acgtgttggg aagggcgatc ggtgcgggcc tcttcgctat
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> RDC3498 Translated Insert Sequence

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201  vgiplkplyq dftaisneay rqddfsdtga fwrswyesps qleplylnlh ayvrralhr ygdkyvnrlr pipahllgdm waqsweniya
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