

**Specifications:**

Gene:	mAce2
Accession:	NP_001123985.1
Insert size:	2431bp
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.

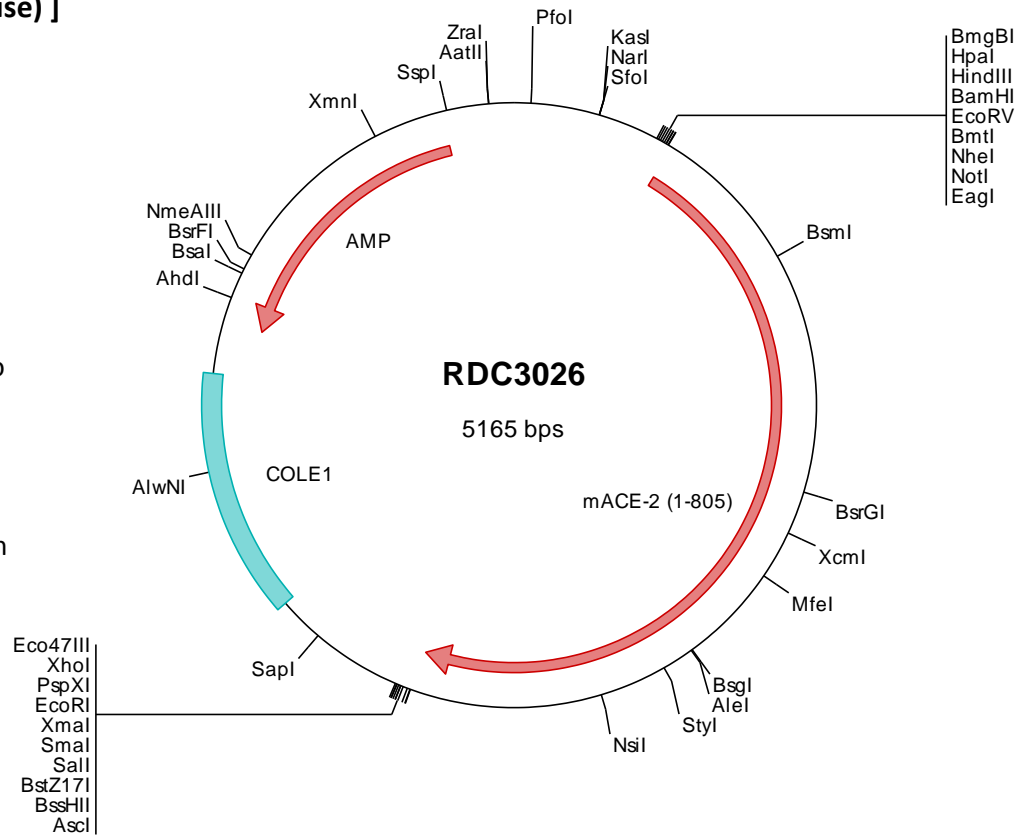
**mACE-2 cDNA Plasmid**

**Ace2** angiotensin I converting enzyme (peptidyl-dipeptidase A) 2 [ *Mus musculus* (house mouse) ]

Also known as: 2010305L05Rik

**Summary:**

ACE-2 belongs to the angiotensin-converting enzyme family of dipeptidyl carboxypeptidases. It is a secreted protein that catalyzes the cleavage of angiotensin I into angiotensin 1-9, and angiotensin II into the vasodilator angiotensin 1-7. The organ- and cell-specific expression of ACE-2 suggests that it may play a role in the regulation of cardiovascular and renal function, as well as fertility. In addition, ACE-2 is a functional receptor for the spike glycoprotein of the human coronavirus HCoV-NL63 and the human severe acute respiratory syndrome coronaviruses, SARS-CoV and SARS-CoV-2 (COVID-19 virus).



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC3026 Plasmid DNA Sequence

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1 tcgcgcgctt cggatgatgac ggtgaaaacc totgacacat gcagctcccc gagacgggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatattgc gtgtgaaata
201 ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgcatt caggctcgc aactgttggg aagggcgatc ggtcgggcc tcttcgctat
301 tacgcccagt ggcgaaaagg ggatgtgctg caaggcgatt aagttgggta agccagggtt tttcccagtc acgacgttgt aaaacgacgg ccagtgatt
401 ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccggcacc atgtccagct cctcctgggt ccttctcagc cttgttctg ttactactgc
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601 aactaataca ttactgaaga aaatgcccac aagatgagt aggettgcgc caaatggctg gcctttatg aagaacagtc taagactgcc caaagttct
701 caatacaaga aatccagact ccgatacaca agcgtcaact acaggccctt cagcaaagtg ggtctcagc actctcagca gacaagaaca aacagttgaa
801 cacaattctg aacacctga gcaccattta cagtactgga aaagtttgca accocaaaga cccacaagaa tgcttattac ttgagccagg attgtagaa
901 ataatggcga caagcacaga ctacaactct aggctctggg catgggaggg ctggagggtc gaggttggca agcagctgag gccgttgat gaagagtatg
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2601 gaatgataac agctgtgagt tcttggggat tcaaccaca cttagccacc cttaccagcc tctctgcacc atatggctga tatttttgg ttgttggatg
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> RDC3026 Translated Insert Sequence

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1 msssswllls lvavttaqsl teenaktfln nfnqeaedls yqsslaswny ntniteenaq kmseaaakws afyeeqskta qsfslqeiqt piikrqlqal
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201 dywrgdyeae gadgynynrn qliedvertf aeikplyehl hayvrrklmd typsyisptg clpahllgdm wgrfwnlyp ltvpfqakpn idvtdamnnq
301 gwdaerifge aekffvsvgl phmtqgfwan smltepadgr kvvchptawd lghgdfrlkm ctkvtmdnfl tahhemghiq ydmayarqpf llrnganegf
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501 aslfhvsndy sfiryytrti yqfqqealc qaakynslh kcdisnstea gqkllkmlsl gnsepwtkal envvgarnmd vkpllnyfpq lfdwlkeqnr
601 nsfvgwntew spyadqskv rislksalga nayewtnnem flfrssvaya mrkyfsiikn qtvpfleedv rvsdlkprvs fyffvtspqn vsdviprsev
701 edairmsrgr indvfglndn sleflghipt leppyqppvt iwliifgvvm alvvvgiil itvgikgrkk knetkreepn ydsmdigkge snagfqnsdd
801 aqtsf

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