

Product datasheet for SC203117

Angiotensin Converting Enzyme 1 (ACE) (NM_000789) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	Angiotensin Converting Enzyme 1 (ACE) (NM_000789) Human 3' UTR Clone
Symbol:	Angiotensin Converting Enzyme 1
Synonyms:	ACE1; CD143; DCP; DCP1
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_000789
Insert Size:	1037 bp
Insert Sequence:	>SC203117 3'UTR clone of NM_000789 The sequence shown below is from the reference sequence of NM_000789. The complete sequence of this clone may contain minor differences, such as SNPs. Blue =Stop Codon Red =Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GGCTCCGAGGTGGAGCTGAGACTCCTTGAGGTGACCCGGCTGGGTGGCCCTGCCAAGGGCTCCCA
CCAGAGACTGGGATGGGAACACTGGTGGGCAGCTGAGGACACACCCACACCCAGCCACCCTGCTCC
TCCTGCCCTGTCCCTGTCCCCCTCCCCTCCAGTCTCCAGACCACCAGCCGCCAGCCCTTCTCCC
AGCACACGGCTGCCTGACTGAGCCCCACCTCTCCAAGTCTCTGTGAATACAATTAAGGTCTGTC
CCTCCCCATCTGAGTCTGTGTCCCTCACAGGGAAGCCAGGGACAGGGACAGGCTGCTTTCCTGCCTCCT
GGCAGTCAAGTGGTCCCGTTACTAGGTTTGTTCCCTCCATCCTCCTTCAGGAGCCGGGAGGATCCCA
GAGCTCTGCCACGACCTCCTGGCGCTGGCGCCTGTCTTCCCTCCAGCCAGGCAGCCGCCACTGTC
CTGCCACCGCAGGCAGCCCTGTCTGGCCCAAGCACTGACCCACGCGGACTCTGGGAAGCAGACATCCT
GGGCTGCTGGCCTCACATTTCCACTGGCAGTGGAGCCTTCCCTGCTCCACAAATGGCCAGGTCCCCC
AGGGGAAGGCTTCCGGCTGTTATCGGCTGCCTCAGGGGGCGAGTACCTTGGAGGGCTGCTTCAAGGAG
GGTGCCCCCTGGAGGGCACACACCAGCCTAGTGCTTACCTTGGCTCCTGCCTGTACCAGTCCATGACT
CTGCTCGGGTGAACAGCCTTGGCTCTCAGACAGCCATTCTAACACTGCCAGTGCAGAGGGGCCCTCAGAC
GCTGGAGTGTAGCAGTGGCTGCACCTGCACAGGATTAGCTGCCAGCAGCCACCCTGCTGGCGTCCCAG
CACACACCTCCTCACTCCTGCATTGGAGGAGTGTCAATTTAAAGGGACATTTTTATGACTTTTATGTG
TATGTTTTATGTAGAAATTTGGAAAATACAGAAAATGTAAGAAAATAAAAGCCCTTTATATCAACGTC
AA
ACGCGTAAGCGGCCGCGGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCCTTCTATGAAAGG

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Restriction Sites: Sgfl-MluI



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	NM_000789.4
Summary:	This gene encodes 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. This angiotensin converting enzyme (ACE) also inactivates the vasodilator protein, bradykinin. Accordingly, the encoded enzyme increases blood pressure and is a drug target of ACE inhibitors, which are often prescribed to reduce blood pressure. This enzyme additionally plays a role in fertility through its ability to cleave and release GPI-anchored membrane proteins in spermatozoa. Many studies have associated the presence or absence of a 287 bp Alu repeat element in this gene with the levels of circulating enzyme. This polymorphism, as well as mutations in this gene, have been implicated in a wide variety of diseases including cardiovascular pathophysiologies, psoriasis, renal disease, stroke, and Alzheimer's disease. 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. Alternative splicing results in multiple transcript variants encoding both somatic (sACE) and male-specific testicular (tACE) isoforms. [provided by RefSeq, Sep 2020]
Locus ID:	1636
MW:	37.7