

Product datasheet for **SC202699**

Renin (REN) (NM_000537) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	Renin (REN) (NM_000537) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	REN
Synonyms:	ADTKD4; HNFJ2; RTD
ACCN:	NM_000537
Insert Size:	227 bp
Insert Sequence:	>SC202699 3'UTR clone of NM_000537 The sequence shown below is from the reference sequence of NM_000537. The complete sequence of this clone may contain minor differences, such as SNPs. Blue =Stop Codon Red =Cloning site GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC AACCGCATTGGCTTCGCCTTGGCCCGCTGAGGCCCTCTGCCACCCAGGCAGGCCCTGCCTTCAGCCCTG GCCCAGAGCTGGAACACTCTCTGAGATGCCCTCTGCCTGGGCTTATGCCCTCAGATGGAGACATTGGA TGTGGAGCTCCTGCTGGATGCGTGCCCTGACCCCTGCACCAGCCCTTCCCTGCTTTGAGGACAAAGAGA ATAAAGACTTCATGTTCA ACGCGT AAGCGGCCGCGCATCTAGATTGAAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA CGAGATTCGATTCCACCGCCCTTCTATGAAAGG
Restriction Sites:	SgfI-MluI
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_000537.4



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Summary:

This gene encodes renin, an aspartic protease that is secreted by the kidneys. Renin is a part of the renin-angiotensin-aldosterone system involved in regulation of blood pressure, and electrolyte balance. This enzyme catalyzes the first step in the activation pathway of angiotensinogen by cleaving angiotensinogen to form angiotensin I, which is then converted to angiotensin II by angiotensin I converting enzyme. This cascade can result in aldosterone release, narrowing of blood vessels, and increase in blood pressure as angiotension II is a vasoconstrictive peptide. Transcript variants that encode different protein isoforms and that arise from alternative splicing and the use of alternative promoters have been described, but their full-length nature has not been determined. Mutations in this gene have been shown to cause hyperuricemic nephropathy familial juvenile 2, familial hyperproreninemia, and renal tubular dysgenesis. [provided by RefSeq, May 2020]

Locus ID:

5972

MW:

7.8