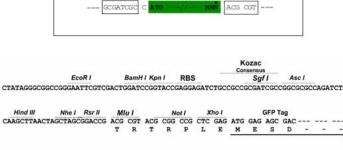


# Product datasheet for RG208382

# Renin (REN) (NM\_000537) Human Tagged ORF Clone

### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Renin (REN) (NM_000537) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Renin
Synonyms:	ADTKD4; HNFJ2; RTD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
<b>Restriction Sites:</b>	Sgfl-Mlul
Cloning Scheme:	Cloning sites used for ORF Shuttling:
	Safi ORF Miul



---- GAA GAA AGA GAT TAA ACGGCCGGCCGCGGAGCT --- E E R V Stop

 ACCN:
 NM\_000537

 ORF Size:
 1218 bp



View online »

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#### OriGene Technologies, Inc.

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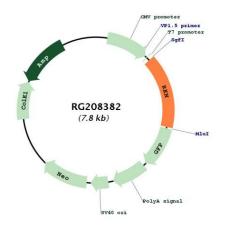
<b>Gene</b> Renin (REN) (NM_000537) Human Tagged ORF Clone – RG208382	
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <u>More info</u>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li> </ol>
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM 000537.4</u>
RefSeq Size:	1461 bp
RefSeq ORF:	1221 bp
Locus ID:	5972
UniProt ID:	<u>P00797</u>
Cytogenetics:	1q32.1
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Renin-angiotensin system
Gene 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

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tubular dysgenesis. [provided by RefSeq, May 2020]

## **Product images:**



Circular map for RG208382

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