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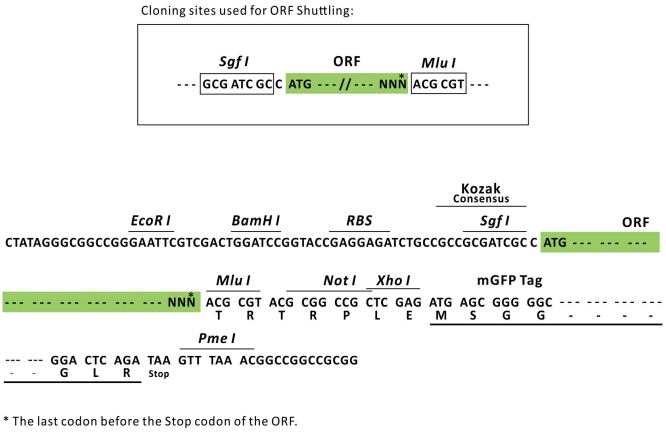
Product datasheet for RC208442L2

ACE2 (NM_021804) Human Tagged Lenti ORF Clone (Angiotensin Converting Enzyme 2)

Product data:

Product Type:	Expression Plasmids
Product Name:	ACE2 (NM_021804) Human Tagged Lenti ORF Clone (Angiotensin Converting Enzyme 2)
Tag:	mGFP
Symbol:	Angiotensin Converting Enzyme 2
Synonyms:	ACEH
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC208442).
Restriction Sites:	SgfI-MluI
Cloning Scheme:	

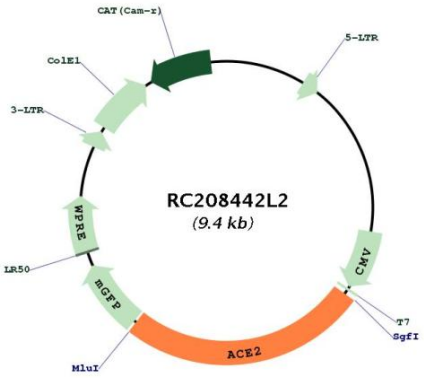


ACCN:	NM_021804
ORF Size:	2415 bp

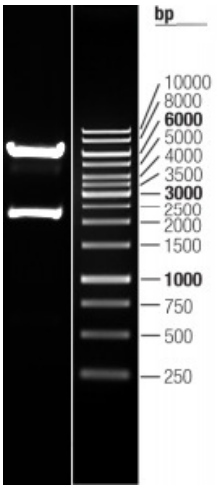
View online »

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. More info
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:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. 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.
RefSeq:	NM_021804.1
RefSeq Size:	3519 bp
RefSeq ORF:	2418 bp
Locus ID:	59272
UniProt ID:	Q9BYF1
Cytogenetics:	Xp22.2
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
Protein Pathways:	Renin-angiotensin system
MW:	92.5 kDa
Gene Summary:	The protein encoded by this gene belongs to the angiotensin-converting enzyme family of dipeptidyl carboxydipeptidases and has considerable homology to human angiotensin 1 converting enzyme. This secreted protein catalyzes the cleavage of angiotensin I into angiotensin 1-9, and angiotensin II into the vasodilator angiotensin 1-7. ACE2 is known to be expressed in various human organs, and its organ- and cell-specific expression suggests that it may play a role in the regulation of cardiovascular and renal function, as well as fertility. In addition, the encoded protein 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, the latter is the causative agent of coronavirus disease-2019 (COVID-19). Multiple splice variants have been found for this gene and the dACE2 (or MIRb-ACE2) splice variant has been found to be interferon inducible. [provided by RefSeq, Nov 2020]

Product images:



Circular map for RC208442L2



Double digestion of RC208442L2 using SgfI and MluI