

Product datasheet for **RG208442**

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

Product data:

Product Type:	Expression Plasmids
Product Name:	ACE2 (NM_021804) Human Tagged ORF Clone (Angiotensin Converting Enzyme 2)
Tag:	TurboGFP
Symbol:	Angiotensin Converting Enzyme 2
Synonyms:	ACEH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG208442 representing NM_021804
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCAAGCTCTTCTGGCTCCTTCTCAGCCTTGTGCTGTAACGCTGCTCAGTCCACCATTGAGGAAC
 AGGCCAAGACATTTTGGACAAGTTTAACCACGAAGCCGAAGACCTGTTCTATCAAAGTTCACTTGCTTC
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 AGCTTCAGCTGCAGGCTCTTTCAGCAAAATGGGTCTTCAGTCTCAGAAGACAAGCAAAACGGTTGAA
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 AAAAAATAAGCAAGAAGTGGAGAAAATCCTTATGCCTCCATCGATATTAGCAAAGGAGAAAAATAATCCAG
 GATTCCAAAACACTGATGATGTTTCAGACCTCCTTT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG208442 representing NM_021804
 Red=Cloning site Green=Tags(s)

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MSSSSWLLL SLVAVTAAQSTIEEQAKTFLDKFNHEAEDLFYQSSLASWNYNTNITEENVQNMNAGDKWS
AFLKEQSTLAQMYPLQEIQNLTVKLQLQALQQNGSSVLSEDKSKRLNTILNTMSTIYSTGKVCNPDNPQE
CLLLEPGLNEIMANSLDYNERLWAWESWRSEVGKQLRPLYEEYVVLKNEMARANYEDYGDYWRGDYEVN
GVDGYDYSRGLIEDVEHTFEEIKPLYEHLHAYVRAKLMNAYPSYISPIGCLPAHLLGDMWGRFWTNLYS
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LGKGDFRILMCTKVTMDDFLTAHHEMGHIQYDMAYAAQPFLLRNGANEGFHEAVGEIMSLSAATPKHLKS
IGLLSPDFQEDNETEINFLLKQALTIVGTLPTTYMLEKWRWVFKGEIPKDQWMKKWEMKREIVGVVEP
VPHDETYCDPASLFHVSNDYSFIRYYTRTL YQFQFEALCQAAKHEGPLHKCDISNSTEAGQKLFNMLRL
GKSEPWTALENVVGAKNMNRPLLNYFEPLFTWLKDQNKNSFVGWSTDWSPYADQSIKVRISLKSALGD
KAYEWNDEMILFRSSVAYAMRQYFLKVKNQMILFGEEDVRVANLKPRI SFNFFVTAPKNVSDIIPRTEV
EKAIRMSRSRINDAFRLNDNSLEFLGIQPTLGPNNQPPVSIWLVFVGVVGVIVGVIVILIFTGIRD RKK
KNKARSGENPYASIDISKGENNPGFQNTDDVQTSF
  
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TRTRRLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_021804.3](#)

RefSeq Size: 3405 bp

RefSeq ORF: 2418 bp

Locus ID: 59272

UniProt ID: [Q9BYF1](#)

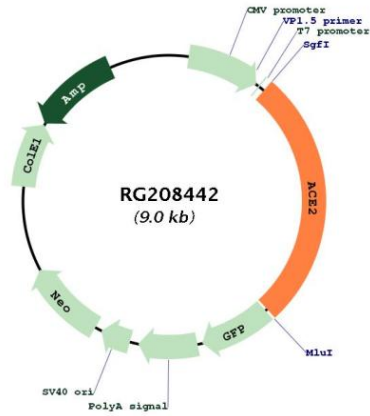
Cytogenetics: Xp22.2

Protein Families: Druggable Genome, Secreted Protein, Transmembrane

Protein Pathways: Renin-angiotensin system

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 RG208442