

Product datasheet for **MG227195**

Ace2 (NM_027286) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ace2 (NM_027286) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ace2
Synonyms:	2010305L05Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>MG227195 representing NM_027286
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

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GATTCCAAAACAGTGATGATGCTCAGACTTCTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG227195 representing NM_027286
 Red=Cloning site Green=Tags(s)

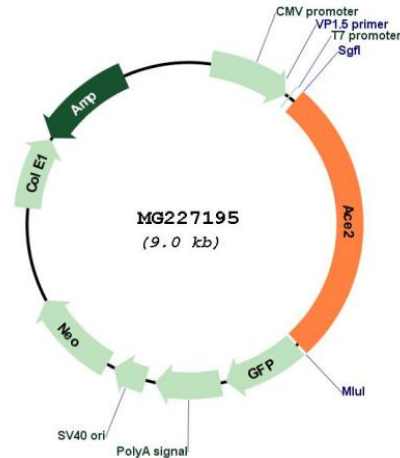
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CLLLEPGLDEIMATSTDYNSRLWAWEGWRAE V GKQLRPL YEEYVVLKNEMARANNYNDYGDYWRGDYEA E
GADGYNYNRNQLIEDVERTFAEIKPLYEHLHAYVRRK LMDTYP SYISPTGCLPAHLLGDMWGRFWTNLYP
LTVPFAQKPNIDVTDAMMNQGWDAERIFQEAEKFFVSVGLPHMTQGFWANSMLTEPADGRKVVCHPTAWD
LHGDFRIKMCTKV TMDNFLTAHHEMGIHQYDMAYARQPFLLRNGANEGFHEAVGEIMSLSAATPKHLKS
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EDAIRMSRGRINDVFGLNDNSLEFLGIHPTLEPPYQPPVTIWL IIFGVVMALVVVGIIILIVTG I KGRKK
KNETKREENPYDSMDIGKGESNAGFQNSDDAQT SF
  
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TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Plasmid Map:


ACCN: NM_027286

ORF Size: 2415 bp

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_027286.4](#), [NP_081562.2](#)

RefSeq Size: 3418 bp

RefSeq ORF: 2418 bp

Locus ID: 70008

UniProt ID: [Q8R0I0](#)

Cytogenetics: X 76.12 cM

Gene Summary:

Carboxypeptidase which converts angiotensin I to angiotensin 1-9, a peptide of unknown function, and angiotensin II to angiotensin 1-7, a vasodilator. Also able to hydrolyze apelin-13 and dynorphin-13 with high efficiency. May be an important regulator of heart function. May have a protective role in acute lung injury. Plays an important role in amino acid transport by acting as binding partner of amino acid transporter SLC6A19, regulating its trafficking on the cell surface and its activity (PubMed:19185582).[UniProtKB/Swiss-Prot Function]