

Product datasheet for **RR214151**

Ace2 (NM_001012006) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ace2 (NM_001012006) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ace2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>NM_001012006 ORF sequence, RR214151 may differ due to SNPs.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
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Protein Sequence: >Peptide sequence encoded by RR214151
 Blue=ORF Red=Cloning site Green=Tag(s)

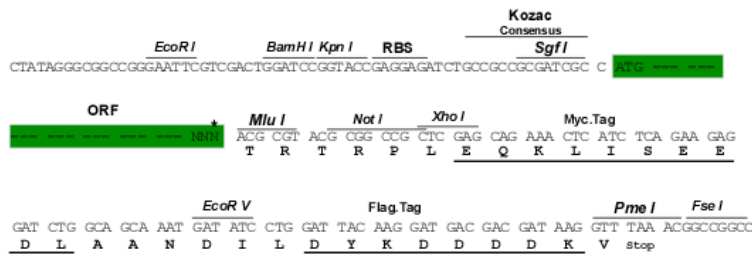
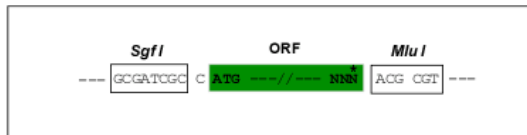
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KLLNMLSLGNSGPWTLALENVVGSRNMDVKPLLNYFQPLFVWLKEQNRNSTVGWSTDWSPYADQSIKVR
ISLKSALGKNAYEWDNEMYLFRSSVAYAMREYFSREKNQTVPFGEADVWVSDLKPRVSNFFVTSKPN
VSDIIPRSEVEEAIRMSRGRINDIFGLNDNSLEFLGIYPTLKPPYEPVTVLWLIIFGVMTGVVVGIVI
LIVTGIGRKKKNETKREENPYDSMDIGKGESNAGFQNSDDAQTSTF
TRTRPLEQKLISEEDLAANDILDYKDDDDKV
  
```

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001012006

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.

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

RefSeq: [NM_001012006.1](#), [NP_001012006.1](#)

RefSeq Size: 3268 bp

RefSeq ORF: 2418 bp

Locus ID: 302668

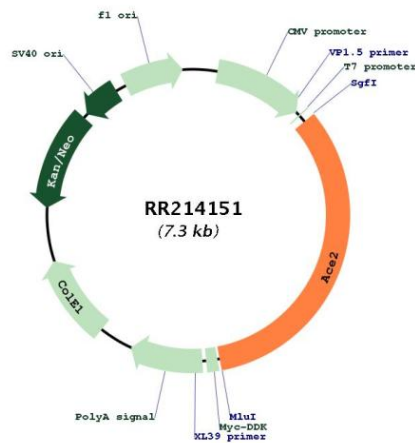
UniProt ID: [Q5EGZ1](#)

Cytogenetics: Xq14

MW: 92.5 kDa

Gene Summary: enzyme peptidyl-dipeptidase; mouse homolog has a role in regulation of cardiac contractility and regulating Angiotensin 1 and 2 levels [RGD, Feb 2006]

Product images:



Circular map for RR214151