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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)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCAAGCTCCTGCTGGCTCCTTCTCAGCCTTGTTGCTGTTGCTACTGCTCAGTCCCTCATCGAGGAA
AAGGCCGAGAGCTTTTTAAACAAGTTTAACCAGGAAGCTGAAGACCTGTCTTATCAAAGTTCACTTGCT
TCTTGGAATTACAACACCAACATTACGGAGGAGAATGCCCAAAAGATGAACGAGGCTGCGGCCAAATGG
TCTGCCTTTTATGAAGAACAGTCCAAGATCGCCCAAAATTTCTCACTACAAGAAATTCAGAATGCGACC
ATCAAGCGTCAACTGAAGGCCCTTCAGCAGAGCGGGTCTTCAGCGCTGTCACCAGACAAGAACAAACAG
TTGAACACAATTCTAAACACCATGAGCACCATTTACAGTACTGGAAAAGTTTGCAACTCAATGAATCCA
CAAGAATGTTTTTTACTTGAACCAGGATTGGACGAAATAATGGCAACAAGCACAGACTACAATCGTAGG
CTCTGGGCTTGGGAGGGCTGGAGGGCTGAGGTCGGCAAGCAGCTGAGGCCGTTATATGAAGAGTATGTG
GTCCTGAAAAATGAGATGGCAAGAGCAAACAATTATGAAGACTATGGGGATTATTGGCGAGGGGATTAT
GAAGCAGAGGGAGTAGAAGGTTACAACTACAACCGAAACCAGTTGATCGAAGACGTAGAAAATACCTTC
AAAGAGATCAAACCGTTGTATGAGCAACTTCATGCCTATGTGAGAACGAAGTTGATGGAAGTGTACCCT
TCTTACATCAGCCCTACTGGATGCCTCCCTGCTCATTTGCTTGGTGATATGTGGGGTAGGTTTTGGACA
AATCTGTACCCTTTGACTACTCCCTTTCTTCAGAAACCAAACATAGATGTTACTGATGCAATGGTGAAT
CAGAGCTGGGATGCAGAAAGAATATTTAAAGAGGCAGAGAAGTTCTTCGTTTCTGTTGGCCTTCCTCAA
ATGACTCCGGGATTCTGGACAAACTCCATGCTGACTGAGCCAGGAGATGACCGGAAAGTTGTCTGCCAC
CCCACAGCTTGGGATCTGGGACATGGAGACTTCAGAATCAAGATGTGCACAAAGGTCACAATGGACAAC
TTCTTGACAGCCCATCATGAGATGGGACACATCCAATATGACATGGCATATGCCAAGCAACCTTTCCTG
CTAAGAAACGGAGCCAATGAAGGGTTCCATGAAGCCGTTGGAGAAATCATGTCACTTTCTGCAGCTACC
CCCAAACATTTGAAATCTATTGGTCTTCTGCCATCCAATTTTCAAGAAGACAATGAAACAGAAATAAAC
TTCCTACTCAAACAGGCATTGACAATTGTTGGAACGCTGCCATTTACTTACATGTTAGAGAAGTGGAGG
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ATCGTTGGTGTGGTGGAGCCTCTGCCTCATGATGAAACATACTGTGACCCTGCATCTCTGTTCCATGTC
TCTAATGATTACTCATTCATTCGATATTACACAAGGACCATTTATCAATTCCAGTTTCAAGAAGCTCTT
TGTCAAGCAGCTAAACATGATGGCCCACTACACAAATGTGACATCTCAAATTCCACTGAAGCTGGGCAG
AAGTTGCTCAATATGCTGAGTCTTGGAAACTCAGGGCCCTGGACCCTAGCCTTGGAAAATGTGGTAGGA
TCAAGGAATATGGATGTAAAACCACTGCTCAATTACTTCCAACCATTGTTTGTCTGGCTGAAAGAGCAG
AACAGGAATTCGACTGTGGGGTGGAGCACTGACTGGAGCCCATATGCCGACCAAAGCATTAAAGTGAGG
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TCATCTGTTGCCTATGCCATGAGAGAGTATTTTTCAAGGGAAAAGAACCAGACAGTTCCTTTTGGGGAG
GCAGACGTATGGGTGAGTGATTTGAAACCAAGAGTCTCCTTCAACTTCTTTGTCACTTCACCCAAAAAT
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ATTTTTGGTCTGAATGATAACAGCCTGGAGTTTCTGGGGATCTACCCAACACTTAAGCCACCTTACGAG
CCTCCTGTCACCATATGGCTGATTATTTTTGGTGTCGTGATGGGAACGGTAGTGGTTGGCATTGTTATC
CTGATCGTCACTGGGATCAAAGGTCGAAAGAAGAAAAATGAAACAAAAAGAGAAGAGAATCCTTATGAC
TCCATGGACATTGGCAAAGGAGAAAGTAACGCAGGATTCCAAAACAGTGATGATGCTCAAACTTCATTC
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

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Protein Sequence:

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

MSSSCWLLLSLVAVATAQSLIEEKAESFLNKFNQEAEDLSYQSSLASWNYNTNITEENAQKMNEAAAKW
SAFYEEQSKIAQNFSLQEIQNATIKRQLKALQQSGSSALSPDKNKQLNTILNTMSTIYSTGKVCNSMNP
QECFLLEPGLDEIMATSTDYNRRLWAWEGWRAEVGKQLRPLYEEYVVLKNEMARANNYEDYGDYWRGDY
EAEGVEGYNYNRNQLIEDVENTFKEIKPLYEQLHAYVRTKLMEVYPSYISPTGCLPAHLLGDMWGRFWT
NLYPLTTPFLQKPNIDVTDAMVNQSWDAERIFKEAEKFFVSVGLPQMTPGFWTNSMLTEPGDDRKVVCH
PTAWDLGHGDFRIKMCTKVTMDNFLTAHHEMGHIQYDMAYAKQPFLLRNGANEGFHEAVGEIMSLSAAT
PKHLKSIGLLPSNFQEDNETEINFLLKQALTIVGTLPFTYMLEKWRWMVFQDKIPREQWTKKWWEMKRE
IVGVVEPLPHDETYCDPASLFHVSNDYSFIRYYTRTIYQFQFQEALCQAAKHDGPLHKCDISNSTEAGQ
KLLNMLSLGNSGPWTLALENVVGSRNMDVKPLLNYFQPLFVWLKEQNRNSTVGWSTDWSPYADQSIKVR
ISLKSALGKNAYEWTDNEMYLFRSSVAYAMREYFSREKNQTVPFGEADVWVSDLKPRVSFNFFVTSPKN
VSDIIPRSEVEEAIRMSRGRINDIFGLNDNSLEFLGIYPTLKPPYEPPVTIWLIIFGVVMGTVVVGIVI
LIVTGIKGRKKKNETKREENPYDSMDIGKGESNAGFQNSDDAQTSF
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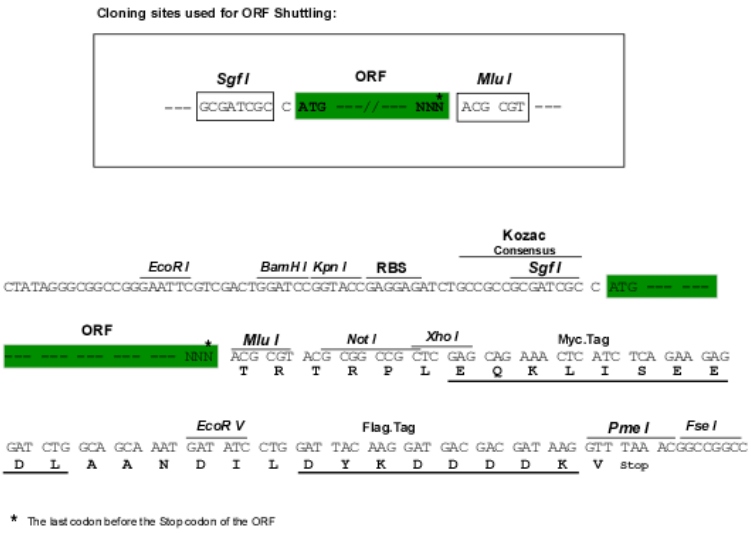
Restriction Sites: SgfI-MluI

Cloning Scheme:



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).

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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_001012006.1, NP_001012006.1

RefSeq Size: 3268 bp

RefSeq ORF: 2418 bp

Locus ID: 302668

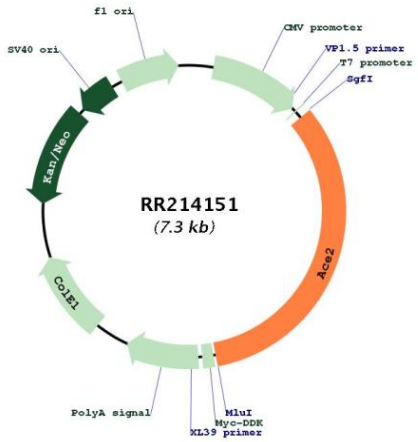
UniProt ID: Q5EGZ1

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

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