

Product datasheet for **MC221764**

Ace2 (NM_027286) Mouse Untagged Clone

Product data:

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|---------------------------|---------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | Ace2 (NM_027286) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Ace2 |
| Synonyms: | 2010305L05Rik |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >MC221764 representing NM_027286
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCAGCTCCTCTGGCTCCTTCTCAGCCTTGTGCTTACTACTGCTCAGTCCCTCACCGAGGAAA
 ATGCCAAGACATTTTTAAACAACCTTAATCAGGAAGCTGAAGACCTGTCTTATCAAAGTTCACTTGCTTC
 TTGGAATTATAATACTAACATTACTGAAGAAAATGCCAAAAGATGAGTGAGGCTGCAGCCAAATGGTCT
 GCCTTTTATGAAGAACAGTCTAAGACTGCCAAAGTTTCTCACTACAAGAAATCCAGACTCCGATCATCA
 AGCGTCAACTACAGGCCCTTCAGCAAAGTGGTCTTCAGCACTCTCAGCAGACAAGAACAACAGTTGAA
 CACAATTCTGAACACCATGAGCACCATTACAGTACTGAAAAGTTTGAACCCAAAGAACCACAAGAA
 TGCTTATTACTTGAGCCAGGATTGGATGAAATAATGGCGACAAGCACAGACTACAACCTAGGCTCTGGG
 CATGGGAGGGCTGGAGGGCTGAGGTTGGCAAGCAGCTGAGGCCGTTGTATGAAGAGTATGTGGTCTGAA
 AAACGAGATGGCAAGAGCAAACAATTATAACGACTATGGGGATTATTGGAGAGGGGACTATGAAGCAGAG
 GGAGCAGATGGCTACAACATAAACCCTAACAGTTGATTGAAGATGTAGAACGTACCTTCGCAGAGATCA
 AGCCATTGTATGAGCATCTTCATGCCTATGTGAGGAGGAAGTTGATGGATACCTACCCCTCCTACATCAG
 CCCACTGGATGCCTCCCTGCCATTTGCTTGGTGATATGTGGGGTAGATTTGGACAAATCTGTACCCT
 TTGACTGTTCCCTTTCACAGAAACCAACATAGATGTTACTGATGCAATGATGAATCAGGGCTGGGATG
 CAGAAAGGATATTTCAAGAGGCAGAGAAATCTTTGTTTCTGTTGGCCTCCTCATATGACTCAAGGATT
 CTGGGCAAACCTATGCTGACTGAGCCAGCAGATGGCCGAAAGTTGTCTGCCACCCACAGCTTGGGAT
 CTGGGACACGGAGACTTCAGAATCAAGATGTGTACAAAGTCACAATGGACAACCTTTCTGCTAAGAAACGGACCAA
 TGAAGGGTCCATGAAGCTGTTGGAGAAATCATGTCACTTTCTGCAGCTACCCCAAGCATCTGAAATCC
 ATTGGTCTCTGCCATCCGATTTTCAAGAAGATAGCGAAACAGAGATAAACTTCTACTGAAACAGGCAT
 TGACAATTGTTGGAACACTACCGTTTACTTACATGTTAGAGAAGTGGAGGTGGATGGTCTTTCGGGGTGA
 AATTCCCAAAGAGCAGTGGATGAAAAAGTGGTGGGAGATGAAGCGGGAGATCGTTGGTGTGGTGGAGCCT
 CTGCCTCATGATGAAACATACTGTGACCCTGCATCTCTGTTCCATGTTTCTAATGATTACTCATTTC
 GATATTACACAAGGACATTTACCAATCCAGTTTCAAGAAGCTCTTTGTCAAGCAGCTAAGTATAATGG
 TTCTCTGCACAAATGTGACATCTCAAATCCACTGAAGCTGGCAGAAGTTGCTCAAGATGCTGAGTCTT
 GGAATTCAGAGCCCTGGACCAAAGCCTTGAAAAATGTGGTAGGAGCAAGGAATATGGATGTAACCCAC
 TGCTCAATTACTTCCAACCGTTGTTGACTGGCTGAAAGAGCAGAACAGAAATCTTTTGTGGGGTGGAA
 CACTGAATGGAGCCCATATGCCGACCAAAGCATTAAAGTGAGGATAAGCCTAAAAATCAGCTCTTGGAGCT
 AATGCATATGAATGGACCAACAACGAAATGTTCCCTGTTCCGATCATCTGTTGCATATGCCATGAGAAAGT
 ATTTTTCAATAATCAAAAACAGACAGTTCCCTTTCTAGAGGAAGATGTACGAGTGAGTGATTTGAAACC
 AAGAGTCTCCTTCTACTTCTTTGTACCTCACCCCAAAATGTGTCTGATGTCATTCTAGAAGTGAAGTT
 GAAGATGCCATCAGGATGCTCGGGGCCGATCAATGATGTCTTTGGCCTGAATGATAACAGCCTGGAGT
 TTCTGGGATTACCCAAACACTTGAGCCACCTTACCAGCCTCCTGTCACCATATGGCTGATTATTTTTGG
 TGTGTGATGGCACTGGTAGTGGTTGGCATCATCATCTGATTGTCAGTGGGATCAAAGGTCGAAAGAAG
 AAAAAATGAAACAAAAAGAGAAGAGAACCCTTATGACTCGATGGACATTGAAAAGGAGAAAGCAATGCAG
 GATTCCAAAACAGTGATGATGCTCAGACTTCCTTT**AG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_027286
Insert Size: 2418 bp

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| OTI Disclaimer: | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| 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: | <ol style="list-style-type: none">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] Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1. |