

Product datasheet for **MC221763**

Ace2 (NM_001130513) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ace2 (NM_001130513) 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: >MC221763 representing NM_001130513
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCAGCTCCTCTGGCTCCTTCTCAGCCTTGTGCTTACTACTGCTCAGTCCCTCACCGAGGAAA
 ATGCCAAGACATTTTTAAACAACCTTAATCAGGAAGCTGAAGACCTGTCTTATCAAAGTTCACTTGCTTC
 TTGGAATTATAACTAACATTACTGAAGAAAATGCCAAAAGATGAGTGAGGCTGCAGCCAAATGGTCT
 GCCTTTTATGAAGAACAGTCTAAGACTGCCAAAGTTTCTCACTACAAGAAATCCAGACTCCGATCATCA
 AGCGTCAACTACAGGCCCTTCAGCAAAGTGGTCTTCAGCACTCTCAGCAGACAAGAACAACAGTTGAA
 CACAATTCTGAACACCATGAGCACCATTACAGTACTGAAAAAGTTTGAACCCAAAGAACCACAAGAA
 TGCTTATTACTTGAGCCAGGATTGGATGAAATAATGGCGACAAGCACAGACTACAACCTAGGCTCTGGG
 CATGGGAGGGCTGGAGGGCTGAGGTTGGCAAGCAGCTGAGGCCGTTGTATGAAGAGTATGTGGTCTGAA
 AAACGAGATGGCAAGAGCAAACAATTATAACGACTATGGGGATTATTGGAGAGGGGACTATGAAGCAGAG
 GGAGCAGATGGCTACAACATAAACCCTAACAGTTGATTGAAGATGTAGAACGTACCTTCGAGAGATCA
 AGCCATTGTATGAGCATCTTCATGCCTATGTGAGGAGGAAGTTGATGGATACCTACCCCTCCTACATCAG
 CCCACTGGATGCCTCCCTGCCATTTGCTTGGTGATATGTGGGGTAGATTTGGACAAATCTGTACCCCT
 TTGACTGTTCCCTTTCACAGAAACCAACATAGATGTTACTGATGCAATGATGAATCAGGGCTGGGATG
 CAGAAAGGATATTTCAAGAGGCAGAGAAATCTTTGTTTCTGTTGGCCTCCTCATATGACTCAAGGATT
 CTGGGCAAACCTATGCTGACTGAGCCAGCAGATGGCCGAAAGTTGTCTGCCACCCACAGCTTGGGAT
 CTGGGACACGGAGACTTCAGAATCAAGATGTGTACAAAGTCACAATGGACAACCTTTGACAGCCCATC
 ACGAGATGGGACACATCCAATATGACATGGCATATGCCAGGCAACCTTTCTGCTAAGAAACGGAGCCAA
 TGAAGGGTCCATGAAGCTGTTGGAGAAATCATGTCACTTTCTGCAGCTACCCCAAGCATCTGAAATCC
 ATTGCTTCTGCCATCCGATTTTCAAGAAGATAGCGAAACAGAGATAAACTTCTACTGAAACAGGCAT
 TGACAATTGTTGGAACACTACCGTTTACTTACATGTTAGAGAAGTGGAGGTGGATGGTCTTTCGGGGTGA
 AATTCCCAAAGAGCAGTGGATGAAAAAGTGGTGGGAGATGAAGCGGGAGATCGTTGGTGTGGTGGAGCCT
 CTGCCTCATGATGAAACATACTGTGACCCTGCATCTCTGTTCCATGTTTCTAATGATTACTATTTCATTC
 GATATTACACAAGGACATTTACCAATCCAGTTTCAAGAAGCTCTTGTCAAGCAGCTAAGTATAATGG
 TTCTCTGCACAAATGTGACATCTCAAATCCACTGAAGCTGGGCAGAAGTTGCTCAAGATGCTGAGTCTT
 GGAATTCAGAGCCCTGGACCAAAGCCTTGAAAAATGTGGTAGGAGCAAGGAATATGGATGTAACCCAC
 TGCTCAATTACTTCCAACCGTTGTTGACTGGCTGAAAGAGCAGAACAGAAATCTTTTGTGGGGTGGAA
 CACTGAATGGAGCCCATATGCCGACCAAAGCATTAAAGTGAGGATAAGCCTAAAAATCAGCTCTTGGAGCT
 AATGCATATGAATGGACCAACAACGAAATGTTCCCTGTTCCGATCATCTGTTGCATATGCCATGAGAAAGT
 ATTTTTCAATAATCAAAAACAGACAGTTCCCTTTCTAGAGGAAGATGTACGAGTGAGTGATTTGAAACC
 AAGAGTCTCCTTCTACTTCTTTGTACCTCACCCCAAAATGTGTCTGATGTCATTCTAGAAAGTGAAGTT
 GAAGATGCCATCAGGATGTCTCGGGCCGCATCAATGATGTCTTTGGCCTGAATGATAACAGCCTGGAGT
 TTCTGGGATTCACCAACACTTGAGCCACCTTACCAGCCTCCTGTCACCATATGGCTGATTATTTTTGG
 TGTTGTGATGGCACTGGTAGTGGTTGGCATCATCATCTGATTGTCAGTGGGATCAAAGGTGAAAGAAG
 AAAAAATGAAACAAAAGAGAAGAGAACCCTTATGACTCGATGGACATTGAAAAGGAGAAAGCAATGCAG
 GATTCCAAAACAGTGATGATGCTCAGACTTCCTTT**AG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001130513
Insert Size: 2418 bp

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001130513.1</u> , <u>NP_001123985.1</u>
RefSeq Size:	3566 bp
RefSeq ORF:	2418 bp
Locus ID:	70008
UniProt ID:	<u>Q8R0I0</u>
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 (1) represents the longer transcript.