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Product datasheet for MC229518

Ace (NM_001281819) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ace (NM_001281819) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ace
Synonyms:	AW208573; CD143
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>MC229518 representing NM_001281819
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGGCCGCGTCCGGCCAGCGGGGGCGGTGGCCGTTGTCGCCTCCGCTCTTGATGCTGTCGCTGCTGG
TGCTGTTGCTGCAGCCGTCGCCCGCCCCGGCACTCGACCCTGGATTGCAGCCGGGCAACTTTTCCCCGGA
CGAGGCAGGGGCGCAGCTTTTCGCTGAAAGCTATAACTCGAGTGCCGAGGTGGTGATGTTCCAGAGCACC
GTGGCCAGTTGGGCGCACGACACCAACATCACGGAGGAGAACGCGCGACGCCAGGAGGAAGCGGCCCTGG
TCAGCCAGGAGTTTGCAGAGGTCTGGGGCAAGAAGGCCAAGGAGTTGTATGAGTCCATTTGGCAGAACTT
TACTGACTCAAAGCTGCGAAGGATCATCGGATCTATTCGGACCCTAGGACCTGCCAATCTGCCCCTGGCC
CAGCGGCAGCAGTACAACTCTCTGCTAAGCAACATGAGCAGAATCTACTCCACTGGCAAGGTCTGCTTCC
CCAACAAGACTGCCACCTGCTGGTCCCTGGACCCAGAGCTCACCAACATCCTGGCTTCCTCACGAAGCTA
TGCCAAGTTGTTGTTTGCCTGGGAGGGCTGGCATGATGCTGTGGGTATCCCACTGAAACCCCTCTATCAA
GACTTTACTGCCATCAGTAACGAAGCCTACAGACAAGACGACTTCTCAGACACAGGAGCCTTCTGGCGCT
CCTGGTATGAGTCCCCCTCCTTTGAGGAGAGTCTGGAACATATCTACCACCAACTAGAGCCCCTCTACCT
GAACCTCCATGCCTACGTCCGCCGCGCACTGCACCGCCGCTATGGGGACAAATACGTCAATCTCAGGGGG
CCTATTCCTGCCCATTTGCTGGGAGACATGTGGGCCCAGAGCTGGGAGAACATCTACGACATGGTAGTGC
CTTTCCCAGACAAACCCAACCTCGATGTCACCAGTACAATGGTACAGAAGGGCTGGAACGCCACACACAT
GTTCCGGGTATCAGAGGAATTCTTCACCTCGCTGGGGCTCTCACCCATGCCTCCTGAGTTCTGGGCGGAG
TCAATGCTGGAGAAACCAACGGATGGACGGGAGGTGGTGTGCCACGCCTCTGCCTGGGACTTCTACAACC
GGAAGGACTTCCGGATTAAGCAATGCACACGGGTCACGATGGAACAGCTGGCCACAGTACACCACGAGAT
GGGCCACGTGCAGTACTACCTCCAGTACAAGGACCTGCACGTCTCTCTGCGTAGAGGTGCCAACCCTGGC
TTCCATGAGGCCATTGGGGATGTGCTTGCACTCTCCGTCTCTACCCCTGCACATCTGCACAAAATCGGCC
TACTGGACCATGTTACCAATGACATAGAGAGTGACATCAATTACCTGCTAAAGATGGCCCTAGAGAAAAT
CGCCTTCTTGCCCTTTGGCTACCTGGTGGACCAGTGGCGTTGGGGGGTCTTCAGTGGACGGACCCCACCC

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TCTCGCTACAACTTCGACTGGTGGTATCTTCGAACCAAGTATCAGGGGATCTGCCCACCAGTTGCCCGGA
ATGAAACCCATTTTGATGCTGGAGCCAAGTTTCACATCCCAAACGTGACACCGTACATCAGGTACTTCGT
GAGCTTTGTGCTGCAGTTCCAGTTCCATCAAGCACTGTGCAAGGAGGCAGGCCACCAGGGCCCACTACAC
CAGTGTGACATCTACCAGTCCGCCCAGGCGGGGGCCAAGCTCAAGCAGGTGTTGCAGGCTGGCTGCTCCA
GGCCCTGGCAGGAGGTACTGAAGGACCTGGTAGGCTCAGATGCCCTGGATGCCAAGGCACTGCTGGAGTA
CTTCCAACCGGTCAGCCAGTGGCTGGAAGAGCAGAATCAGCGGAATGGCGAAGTCCTAGGCTGGCCAGAG
AATCAGTGGCGTCCACCGTTACCCGACAACTATCCAGAGGGCATTGACCTAGAGACTGATGAAGCCAAGG
CTGACAGGTTCGTGGAAGAGTATGACCGGACAGCCCAAGTGTTGTTGAACGAGTACGCAGAGGCCAACTG
GCAATATAACACCAACATTACCATAGAGGGCAGCAAGATCCTGCTTGAGAAAAGCACGGAGGTATCCAAT
CACACCCTGAAATATGGCACCCGGGCCAAGACATTTGATGTGAGCAACTTTCAAAACTCTTCCATCAAGC
GGATCATAAAGAAGCTTCAGAACCTGGACCGGGCAGTGCTGCCTCCCAAGGAATTAGAAGAGTACAACCA
GATCCTGCTAGACATGGAGACAACTTACAGCTTATCCAACATTTGCTACACAAATGGCACTTGTATGCCC
CTGGAACCTGATCTAACAAACATGATGGCCACATCCCGGAAATATGAAGAATTGCTATGGGCATGGAAGA
GCTGGAGAGACAAGGTGGGGAGAGCCATCCTTCCTTTTTTCCCAAAGTATGTGGAGTTCTCCAACAAGAT
TGCCAAGCTCAATGGCTACACGGATGCAGGGGATTCATGGAGATCCTTATACGAGTCTGACAACCTGGAG
CAAGACCTGGAAAAACTGTACCAGGAGCTGCAGCCACTCTACCTGAACCTGCATGCCTATGTGCGTCGTT
CCCTGCACCGCCACTATGGGTCCGAGTACATCAACCTGGATGGCCCCATTCCTGCCCATCTGCTAGGGAA
CATGTGGGCGCAGACCTGGTCCAACATCTATGATTTGGTGGCGCCCTTCCCTTCCGCCCCCAATATAGAT
GCCACGGAAGCCATGATAAAGCAGGGATGGACACCCAGAAGGATATTTAAGGAAGCTGACAATTTCTTTA
CCTCCCTGGGGCTGTTACCTGTGCCCCCTGAGTTCTGGAACAAGTCGATGTTAGAGAAGCCCACCGATGG
AAGGGAGGTGGTGTGCCATCCCTCAGCCTGGGACTTCTACAACGGCAAGGACTTCAGGATCAAGCAGTGT
ACCTCTGTGAACATGGAGGACTTGGTGATAGCGCACCACGAAATGGGCCACATCCAGTATTTCATGCAGT
ACAAAGACTTACCCGTGACTTTCCGGGAGGGTGCCAACCCTGGTTTTCATGAAGCTATTGGAGATATAAT
GGCTCTCTCAGTGTCTACCCCCAAGCATCTATACAGTCTCAACCTGCTTAGCACTGAGGGCAGTGGCTAC
GAGTATGACATCAACTTTCTAATGAAGATGGCCCTCGACAAGATCGCCTTTATCCCCTTCAGCTACCTCA
TCGACCAGTGGCGCTGGAGGGTCTTTGATGGAAGCATCACCAAGGAGAACTATAACCAGGAGTGGTGGAG
CCTCAGGCTGAAGTATCAGGGTCTGTGCCCCCCAGTGCCAAGATCCCAAGGTGACTTTGACCCAGGGTCC
AAGTTCCACGTTCCTGCGAACGTGCCATACGTCAGGTACTTTGTCAGCTTCATCATCCAGTTCCAGTTCC
ACGAGGCGCTGTGTCGCGCAGCCGGGCACACGGGTCCCCTGCACAAGTGTGACATCTACCAATCCAAGGA
AGCAGGGAAGCTCCTGGCGGATGCCATGAAGCTGGGCTACAGTAAGCCGTGGCCAGAGGCCATGAAGCTG
ATCACAGGCCAGCCTAACATGTCAGCCTCCGCCATGATGAATTACTTCAAGCCACTGACAGAATGGCTCG
TCACCGAGAACAGGAGACATGGAGAGACACTGGGCTGGCCGGAGTACAACTGGGCGCCAAACACCGGTAC
TACACCCACCCTGCCTCCAGCCCCCGGGCCCAGCTCCTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001281819

Insert Size: 3750 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).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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_001281819.1, NP_001268748.1
RefSeq Size:	5091 bp
RefSeq ORF:	3750 bp
Locus ID:	11421
Cytogenetics:	11 68.84 cM
Gene Summary:	Converts angiotensin I to angiotensin II by release of the terminal His-Leu, this results in an increase of the vasoconstrictor activity of angiotensin. Also able to inactivate bradykinin, a potent vasodilator. Has also a glycosidase activity which releases GPI-anchored proteins from the membrane by cleaving the mannose linkage in the GPI moiety. This GPIase activity seems to be crucial for the egg-binding ability of the sperm.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (3) contains an alternate segment in the 3' coding region, which results in a frameshift, compared to variant 1. The encoded isoform (3) is shorter and has a distinct C-terminus, compared to isoform 1.