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Product datasheet for MR210755

Ace2 (NM_001130513) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ace2 (NM_001130513) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ace2
Synonyms:	2010305L05Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR210755 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCCAGCTCCTCCTGGCTCCTTCTCAGCCTTGTTGCTGTTACTACTGCTCAGTCCCTCACCGAGGAAA
ATGCCAAGACATTTTTAAACAACTTTAATCAGGAAGCTGAAGACCTGTCTTATCAAAGTTCACTTGCTTC
TTGGAATTATAATACTAACATTACTGAAGAAAATGCCCAAAAGATGAGTGAGGCTGCAGCCAAATGGTCT
GCCTTTTATGAAGAACAGTCTAAGACTGCCCAAAGTTTCTCACTACAAGAAATCCAGACTCCGATCATCA
AGCGTCAACTACAGGCCCTTCAGCAAAGTGGGTCTTCAGCACTCTCAGCAGACAAGAACAAACAGTTGAA
CACAATTCTGAACACCATGAGCACCATTTACAGTACTGGAAAAGTTTGCAACCCAAAGAACCCACAAGAA
TGCTTATTACTTGAGCCAGGATTGGATGAAATAATGGCGACAAGCACAGACTACAACTCTAGGCTCTGGG
CATGGGAGGGCTGGAGGGCTGAGGTTGGCAAGCAGCTGAGGCCGTTGTATGAAGAGTATGTGGTCCTGAA
AAACGAGATGGCAAGAGCAAACAATTATAACGACTATGGGGATTATTGGAGAGGGGACTATGAAGCAGAG
GGAGCAGATGGCTACAACTATAACCGTAACCAGTTGATTGAAGATGTAGAACGTACCTTCGCAGAGATCA
AGCCATTGTATGAGCATCTTCATGCCTATGTGAGGAGGAAGTTGATGGATACCTACCCTTCCTACATCAG
CCCCACTGGATGCCTCCCTGCCCATTTGCTTGGTGATATGTGGGGTAGATTTTGGACAAATCTGTACCCT
TTGACTGTTCCCTTTGCACAGAAACCAAACATAGATGTTACTGATGCAATGATGAATCAGGGCTGGGATG
CAGAAAGGATATTTCAAGAGGCAGAGAAATTCTTTGTTTCTGTTGGCCTTCCTCATATGACTCAAGGATT
CTGGGCAAACTCTATGCTGACTGAGCCAGCAGATGGCCGGAAAGTTGTCTGCCACCCCACAGCTTGGGAT
CTGGGACACGGAGACTTCAGAATCAAGATGTGTACAAAGGTCACAATGGACAACTTCTTGACAGCCCATC
ACGAGATGGGACACATCCAATATGACATGGCATATGCCAGGCAACCTTTCCTGCTAAGAAACGGAGCCAA
TGAAGGGTTCCATGAAGCTGTTGGAGAAATCATGTCACTTTCTGCAGCTACCCCCAAGCATCTGAAATCC
ATTGGTCTTCTGCCATCCGATTTTCAAGAAGATAGCGAAACAGAGATAAACTTCCTACTGAAACAGGCAT
TGACAATTGTTGGAACACTACCGTTTACTTACATGTTAGAGAAGTGGAGGTGGATGGTCTTTCGGGGTGA
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CTGCCTCATGATGAAACATACTGTGACCCTGCATCTCTGTTCCATGTTTCTAATGATTACTCATTCATTC
GATATTACACAAGGACCATTTACCAATTCCAGTTTCAAGAAGCTCTTTGTCAAGCAGCTAAGTATAATGG
TTCTCTGCACAAATGTGACATCTCAAATTCCACTGAAGCTGGGCAGAAGTTGCTCAAGATGCTGAGTCTT
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TGCTCAATTACTTCCAACCGTTGTTTGACTGGCTGAAAGAGCAGAACAGAAATTCTTTTGTGGGGTGGAA
CACTGAATGGAGCCCATATGCCGACCAAAGCATTAAAGTGAGGATAAGCCTAAAATCAGCTCTTGGAGCT
AATGCATATGAATGGACCAACAACGAAATGTTCCTGTTCCGATCATCTGTTGCATATGCCATGAGAAAGT
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AAAAATGAAACAAAAAGAGAAGAGAACCCTTATGACTCGATGGACATTGGAAAAGGAGAAAGCAATGCAG
GATTCCAAAACAGTGATGATGCTCAGACTTCCTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

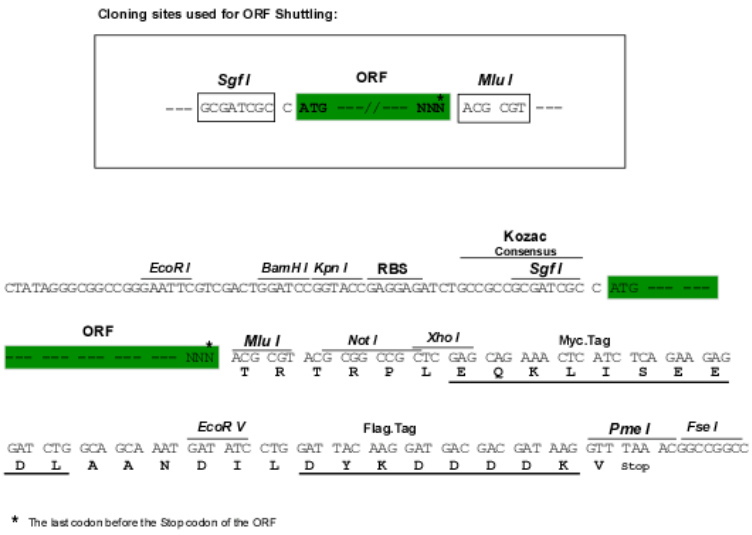
>MR210755 protein sequence
Red=Cloning site Green=Tags(s)

MSSSSWLLLSLVAVTTAQSLTEENAKTFLNNFNQEAEDLSYQSSLASWNYNTNITEENAQKMSEAAAKWS
AFYEEQSKTAQSFSLQEIQTPIIKRQLQALQQSGSSALSADKNKQLNTILNTMSTIYSTGKVCNPKNPQE
CLLLEPGLDEIMATSTDYNSRLWAWEGWRAEVGKQLRPLYEEYVVLKNEMARANNYNDYGDYWRGDYEAE
GADGYNYNRNQLIEDVERTFAEIKPLYEHLHAYVRRKLMDTYPSYISPTGCLPAHLLGDMWGRFWTNLYP
LTVPFAQKPNIDVTDAMMNQGWDAERIFQEAEKFFVSVGLPHMTQGFWANSMLTEPADGRKVVCHPTAWD
LGHGDFRIKMCTKVTMDNFLTAHHEMGHIQYDMAYARQPFLLRNGANEGFHEAVGEIMSLSAATPKHLKS
IGLLPSDFQEDSETEINFLLKQALTIVGTLPFTYMLEKWRWMVFRGEIPKEQWMKKWWEMKREIVGVVEP
LPHDETYCDPASLFHVSNDYSFIRYYTRTIYQFQFQEALCQAAKYNGSLHKCDISNSTEAGQKLLKMLSL
GNSEPWTKALENVVGARNMDVKPLLNYFQPLFDWLKEQNRNSFVGWNTEWSPYADQSIKVRISLKSALGA
NAYEWTNNEMFLFRSSVAYAMRKYFSIIKNQTVPFLEEDVRVSDLKPRVSFYFFVTSPQNVSDVIPRSEV
EDAIRMSRGRINDVFGLNDNSLEFLGIHPTLEPPYQPPVTIWLIIFGVVMALVVVGIIILIVTGIKGRKK
KNETKREENPYDSMDIGKGESNAGFQNSDDAQTSF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

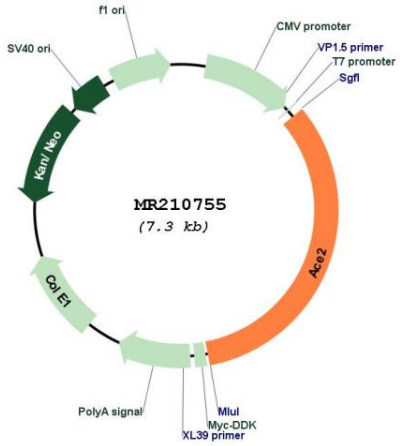
Cloning Scheme:



ACCN:	NM_001130513
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_001130513.1, NP_001123985.1
RefSeq Size:	3566 bp
RefSeq ORF:	2418 bp
Locus ID:	70008
UniProt ID:	Q8R0I0
Cytogenetics:	X 76.12 cM
MW:	92.4 kDa
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]

Product images:



Circular map for MR210755