

Product datasheet for **MC221877**

2010111I01Rik (NM_028079) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	2010111I01Rik (NM_028079) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	2010111I01Rik
Synonyms:	2300006M17Rik; Ao pep; AP-O
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221877 representing NM_028079
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGACATAAAGCTGGACCCCTCCCGGGATGATCTGCCTCTCATGGCCAACACCAGCCACATGCTTGTGA
 AGCACTACATACTGGATTTGGATGTGGACTTTGGAAATCAAGTCATTGAGGGCAACATAGTGCTTTTCTT
 TGGAGATGGAAACAGATTTAAAAACAGTCGCGTTCTACCCAGGAAACCTTCCAGATGGAGTCAGAGGAG
 GCTGACATATTTAGGACAGCTGAACCTGCCATGTTTCTGAGATGGATTCGAGTACCTTCTCACCTAAGA
 TGGGACATAGAGAATGTGCAGTCTGTGGTAAAGGTGATCAAGATGCCTTTGATAACGATGGTAACCATGA
 CAACCAGGAACGTGATTCTGAGATCTCTAGCTCAAAGTACTGCTGTGACACAGGGAATCATGGGAAAAGG
 GATTTCTGTAGTGTGGACTGCTGTGATTTATCTGTGCTAAAGGTAGAGGAGGTGGATGTGGCTGCTG
 TGCCAGGCCTTGAGAAATTTACTAAAGCTCAAAGCTCTTGGCTACTCCTGAGAAGCTCAGGTGTGAGAT
 TGTCCGTGACCTTGTGGCTCTGCCTGCAGATGCTTGGAGGGAGCAGTTAGACTGTACACTCGTTGCAGC
 CAGGCTCCTGGCTGTGGGAGCTTTGATTGACTCTGACAATTGGAGCTTACGGATCAGGAAGACCGGGGA
 CTTTCGACACCTGCTGACTTTCTCGTGCCATCAGAATATGGTATAAAACTAAACCTGAGGGGCAGTCAGT
 AGCTTGGACAACAGACCAGAATGGCAGGCCATGTGTTTATACTATGGGATCCCCATCAACAACAGGGCC
 CTTTTCCATGCCAGGAACACCCGTTGCCATGTCAACATGGCAGGCTACAGTTCGAGCAGCTGCATCTT
 TTGTTGTTTTAATGAGTGGAGAAAATTCGCCAAGCCACACCACTTCGAGAAGGATACATGAGCTGGCA
 TTAATAATGACCATGCCAATGCCGGCTCTACCTTTCGCAATTCAGTGGGGTCTGGACAGAAATGAAG
 CCCAAGGCATCCCACCAGATGATCTGATGACTGAGCACTCTCTCCCCCTCTGCCATCGGAAGCGGACT
 TGAGGTATGATAACACCTGCAATCATATGGAATACCTTGCAGGTTCCAGAGTCCGCTCCGCTGCCATCCCA
 GGACATCATTCTTATCGAGTGTTCGCCCAAGTGTGCCTTGGAGGTGCCTGCCAAGAGGCCCTGCTGTGG
 CTGATCCCTTCTGCTCTCAGCTGCACACTCTGTCTGGGAACACACCTTTTCTCCCGGCTGGACATAC
 TCATTGTCACCAACTTTCCAAGTCTGGGAATGGCCAGCCACACATCATCTTCTCTCAGAGCAC
 CTTAACAGGCACGAGCCATCTCTGTGGGACCCGCTTTGCCATGAAATTGCTCACTCCTGGTTTGGCCTA
 GCCATTGGGGCCCGAGACTGGACAGAGGAGTGGCTCAGTGAAGGATTTGCCACGCATTTGGAAGATATAT
 TTTGGGCTGAGGCACAGCAGCTGCCCCCCATGAGGCCCTGGAGCAGCAGGAGCTGAGGGCTTGCCTGCG
 CTGGCACCGCCTGCAGGATGAGCTTCGGAACCTCCAGAGGGAATGCAGGTGTTAAGACCAACAAGAA
 GAGACTGGCCATGTGAGTCTCAGGTGCATCTGTTGTCAAGCATGGACTCAATCCAGAGAAGGGCTTCA
 TGCAGGTTCACTTAAAGGGCTACTTCTTCTCGGTTCTAACCCAGAACACTTGGAGAGAAAATTTA
 TTTCCGTTTTTAAGAAAATTTGTGCATCTGTTTCATGGGCAGCTGATTCTTCCAGGATTTTCTTCAA
 ATGCTGTTGGAGAACATTCAGAAAACAAAAGGCTCGGCCTGTCTGTTGAGAACATCGTCCGAGATTGGC
 TTGAGTGTTCGGAAATACCTAAGGCGCTGCAGGAGGAGCGCAAGGCCGAGGACTGCTCGCCGAGTAGGCT
 CGCACGGCAAGTAGGCTCCGAGGTGGCGAAATGGATTGAGTCAACCGCAGACCCCGAAAACGCAACCGA
 GGAAGCGAGAAGTCGCCTTTGAAAAGCTTTCTCCAGACCAGATCGTCTTGCTTTGGAGTGGCTCTTAG
 AGCAGAAGACGCTGAGCCCTCAGACACTGCACTGTCTCCAGCAGACTTACCATCTCCAGAGCAGGATGC
 AGAGTTTCGCCATCGATGGTGTGAACCTGGTTATTAAGCACAAAGTACACAAAGGCATACAATCAGGTGGAG
 AGGTTCTACTGGAGGACAGGCCATGGGCATATACCTGTATGGGGAGCTGATGGTGAAGTGAAGACGCCA
 GGCTGCAGCAGCTAGCCACAGGTGCTTTGAGCTGGTGAAGGAACACATGGACAGAGCATCGGCCAGGT
 GGTGACTGAAATGCTGTTCT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_028079
Insert Size: 2472 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.
RefSeq:	NM_028079.2 , NP_082355.1
RefSeq Size:	3509 bp
RefSeq ORF:	2472 bp
Locus ID:	72061
Cytogenetics:	13 B3
Gene Summary:	Aminopeptidases catalyze the hydrolysis of amino acid residues from the N-terminus of peptide or protein substrates. Able to cleave angiotensin III to generate angiotensin IV, a bioactive peptide of the renin-angiotensin pathway. Not able to cleave angiotensin I and angiotensin II. May play a role in the proteolytic processing of bioactive peptides in tissues such as testis and heart.[UniProtKB/Swiss-Prot Function]