

Product datasheet for **MC222136**

Adam22 (NM_001007220) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adam22 (NM_001007220) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Adam22
Synonyms:	2900022I03Rik; AI854032; MDC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222136 representing NM_001007220
 Red=Cloning site Blue=ORF

CTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAGGCAGCGGCCGCGTCTTCTGGCTGCTCTGCGTCTTGGGACCTGCCCCCTGGCGCGTGGC
 GTCGGGCAGGAGTCGCCTCACTGAAAGGACTGGAGAGGGGAAAAGAAAACCGCTTCTGGAGCGCCAGAG
 CATCATACCCTGCGCCTCATCTATCGCTTGGCGGCGAGGATGAACTCAGCACAAACGCTCGACACG
 CGGGTGCGGGGCACCCTGGCGGACCGCAGCTGACGCATGTGGACAAGGCAAGCTTCCGGGTGGACGCT
 TTGGAACCTCTTTCGTTCTCGACGCTCTGCTGAACCACGAGTTGCTGTCAGGTTATGTAGAGAGACA
 GATTGAACATGGAGGCAAGGTCGTGGAGAACAAGGAGGAGAACACTGTTATTACCAGGGCCAGATTGGA
 GGAACCCCTGTCTCATTGTTGCCCTATCAACATGCCATGGACTCCATGGGATGTTCTATGATGGAACCC
 ACACATATCTCATTGAGCCAGAAGAAAATGAGAAGTCTCAAGAGTCGTCTCATTGCTACTCCGTGTACAA
 ATCCAGACAGTTGAATTTCCCTTGGATGACCTTCCGTCTGAATTTCAACGCGTAAACATTACTCCCCT
 CAGTTTATTTTGAAGCCAAGACTAAAGAGGAGAAAAGACAGCTTCTTCGATTTCCCTCGGAATGTAGAGG
 AGGAAACCAAATACATCGAACTGATGATTGTGAATGATCATCTCATGTTTAAAAAGCACCGGCTTTCTGT
 TGTATATACTAATACCTATGCGAAGTCTGTGGTGAACATGGCAGATGTGATCTATAAAGACCAACTGAAA
 ACTAGGATTGTATTGGTTGCCATGGAAACCTGGGCTGCTGACAACAAGTTTGGCCATATCTGAAAACCCAC
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 AGAGGAGGAGGCGTGAATGAATTTGGAAAACGGATTTAATGGCAGTTACCCTCGCTCAGTCACTAGCCC
 ACAATGTCGGTATAATCTCTGACAAAAGAAAAGTACAGTGGTGAAGTAAATGTGAGGACACCTGGTC
 CGGGTGATAATGGGAGACACCGGCTACTATCTCCGAAAAAGTTCACTCAGTGCAATGTGAGGAATAT
 CATGACTTCTGAATAGTGGTGGAGGTGCCTGCCTGTTCAACAAGCCTTCCAAGCTTCTTGATCCTCCTG
 AGTGTGAAAACGGCTTCAATGAAACCGGAGAGGAGTGTGATTGTGGCACCCCTGCAGAATGTGCCCTTGA
 AGGGGCAGAGTGTGTAAGAAATGCACCTTGACCCAGGATTCTCAATGCAGTGTGGCCTTTGTTGTA
 AAGTGAAGTTTCAGCCTCTGGGACCGTGTGCCGAGAGGCAGTGAACGACTGTGACATTCGTGAAATAT
 GTTCAGGAAATTCAGCCAGTGTGCCCAATGTGCATAAAATGGATGGATATTCGTGTGATGGTACTCA
 GGAATTTGCTTTGGAGGAAGATGTAACCAGAGATAGACAATGCAAAATACATCTGGGGCAAAAGGTA
 ACAGCATCTGACAGTACTGCTATGAGAACTGAACATTTAGGGGACGGAGAAGGTAACGTGGGAAAG
 ACAAGGACACGTGGACACAGTGCACAAACGGGATGTACTTTGTGGTTACCTCCTGTGCACAAACATTGG
 CAACATCCCAAGGCTCGGGGAGCTTGATGGTGAAGTACATCCACATTAGTTGTGAGCAAGGAAGAACA
 TAAACTGCAGTGGCGCGCATGTTAAACTTGAAGAAGATGTGGATCTTGGCTATGTGGAAGATGGGACGC
 CCTGTGGCCCTCAGATGATGTGCTTGGAAACACAGGTGTCTTCTGTGGCTTCTTCAACTCAGTACTTG
 CTCCAGCAGTAAAGCAGGCACCGTGTGCTCAGGAAATGGAGTTTGCAGCAATGAGCTCAAGTGTGTGTGC
 AACAGGCACTGGACAGGGGCTGACTGCGGCACCCACTTTCCTCACAATGATGATGCAAGACTGGCATCA
 CCCTGTCTGGCAATGGTGTGCTGGCACTAATATCATAATAGGAATAATTGCCGGCACCATTTTATGTGCT
 GGCCCTCATCTTAGGAATAACTGCCTGGGGTTATAAAAAGTACCGAGAACAGAGACAGTTACCCAGGGA
 GATTATGTAAAAAAGCCTGGCGATGGCGACTTTTTTATAGCGACTTTCCTCCCGAGGCAGCACAAACT
 CAGCATCTAGTTCTAAGAAGAGGTCAAATGGACTCTCTATTCTTGGAGTGAAGGATTCCAGACACAAA
 ACATATTTAGACATCTGTGAAATGGGAGACCTCGCAGTAACTCCTGGCAAGGTAACATGGGAGGCAAC
 AAAAAGAAAATCAGAGGGAAAAGATTTAGACCTCGATCTAACTCAACTGAGTAA

CTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACG
 ATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1867_h12.zip

Restriction Sites: SgfI-XhoI

ACCN: NM_001007220

Insert Size:	2574 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:	<u>NM_001007220.2</u> , <u>NP_001007221.1</u>
RefSeq Size:	2777 bp
RefSeq ORF:	2574 bp
Locus ID:	11496
UniProt ID:	<u>Q9R1V6</u>
Cytogenetics:	5 3.39 cM
Gene Summary:	<p>This gene encodes a member of a disintegrin and metalloprotease (ADAM) family of endoproteases that play important roles in various biological processes including cell signaling, adhesion and migration. The encoded preproprotein undergoes proteolytic processing to generate a mature, functional protein. The protein encoded by this gene is believed to lack metalloproteinase activity due to the lack of a critical catalytic motif. Mice lacking the encoded protein exhibit severe ataxia, hypomyelination and premature death. Alternative splicing results in multiple transcript variants encoding different isoforms, some of which may undergo similar processing. [provided by RefSeq, May 2016]</p> <p>Transcript Variant: This variant (1, also known as alpha or A04) encodes isoform a. This isoform (a) may undergo protein processing similar to isoform 5.</p>