

Product datasheet for **MC221276**

Adam10 (NM_007399) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adam10 (NM_007399) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Adam10
Synonyms:	1700031C13Rik; kuz; kuzb; kuzbanian; MADM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NM_007399.3
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGTGGCCGACAGTGTAAATCTGCTCCTCTCCTGGGCGCGGGGCTGGGAGGTCAGTATGGAATC
 CTTTAAATAAATATATTAGACATTATGAAGGATTATCTTACAATGTGGATTCATTACACCAAAAACACCA
 GCGTGCCAAACGAGCAGTCTCACATGAGGACCAGTTTTTACTTCTAGATTTCCATGCTCATGGAAGACAG
 TTCAACCTACGAATGAAGAGGGACACTTCCCTTTTGTAGTGAATTTAAAGTAGAAACATCAAATAAAG
 TACTTGATTATGATACCTCTCATATTTACTGGACATATTTATGGTGAAGAAGGAACTTTAGTCATGG
 GTCTGTCATTGATGGAAGATTTGAAGTTTTCATCAAGACTCGTGGTGGCAGCTTTTACATTGAGCCAGCA
 GAGAGATACATTAAGATCGAATCCTGCCATTTCACTCTGTCATTTATCATGAAGATGATATTAATATC
 CCCATAAATACGGCCACAGGGGGCTGTGCAGATCACTCCGTTTTTAAAGGATGAGGAAGTACCAAT
 GACTGGAGTAGAGGAAGGAGCCCGGCACATCCAGAGAAGCATGCTGCTAGTAGTGGTCTGAGCTCCTG
 AGGAAAAACGCACAACCTCTGGCTGAAAGAAATCTTGTGAGCTCTATATCCAGACAGATCACCTGTTCT
 TTAATACTATGGAACACGAGAAGCTGTGATTGCTCAGATATCCAGTCATGTTAAAGCAATTGATACAAT
 TTACCAGACTACAGACTTCTCCGGAATCCGTAACATCAGCTTCATGGTGAACGCATAAGAATCAATACA
 ACCTCTGATGAAAAAGACCTACAAATCCTTTCCGTTTCCCAAATATTGGTGTGGAGAAGTTCCTGGAGT
 TGAATTCAGCAGAATCATGATGACTACTGCCTGGCCTATGTCTTCACAGACCGGGATTTTGTGATGG
 TGTTCTTGGTCTGGCCTGGGTTGGAGCACCTTCAGGAAGCTCTGGGGGAATATGTGAGAAAAGCAAGTTG
 TATTCAGATGGCAAGAAGAAGTCAATGAACACAGGCATCATTACTGTTTCCAGAACTATGCCATGATGTC
 CTCCCAAAGTCTCTCATATTACGTTTGTCTCATGAAGTTGGACATAACTTTGGATCTCCACATGATTCTGG
 AACAGAGTGTACTCCAGGAGAGTCTAAGAACTTAGGACAAAAAGAAAATGGCAATTACATCATGTATGCA
 AGAGCAACATCTGGGACAACTTAACAACAACAATTTTCACTCTGCAGCATTAGAAAACATAAGCCAAG
 TGCTTGAGAAGAAGGAACAACGTGTTTTGTTGAATCTGGCCAGCCTATCTGTGGAACGGGATGGTGG
 ACAAGGGGAAGAGTGTGACTGTGGCTACAGTGACCAGTGCAAAGATGATTGCTGCTTCGATGCCAACCCAG
 CCAGAGGGGAAGAAATGCAAGCTGAAGCCTGGGAAGCAGTGCAAGTCCGAGTCAAGGACCCTGCTGTACAG
 CACAGTGTGCATTCAAGTCAAAGTCTGAAAAGTCCGGGATGATTCTGACTGTGCAAAGGAAGGGATATG
 CAATGGCTTCACAGCCCTTTGCCAGCATCTGATCCCAAGCCCACTTTACAGACTGTAAAGGCACACA
 CAAGTGTGCATTAATGGCAATGTGCAGGTTCTATTTGTGAAAAGTATGACTTGGAGGAGTGCACCTGTG
 CCAGCTCTGATGGCAAAGATGATAAGGAATTATGCCATGTTTGTGTCATGAAGAAAATGGCTCCATCAAC
 TTGTGCCAGTACAGGCTCTTTGCAGTGGAGCAAGCAGTTCAGTGGTCCGACTATCACTCTGCAGCCGGGC
 TCTCCATGTAATGACTTCAGAGGCTACTGTGATGTTTTCATGCGGTGCAGATTAGTAGATGCTGATGGCC
 CTCTAGCTAGGCTGAAAAAGCCATTTTGTCCACAACCTATGAAAACATTGCTGAGTGGATTGTGGC
 TCACTGGTGGGCAAGTACTGCTTATGGGAATTGCCCTGATCATGTTAATGGCTGGATTATCAAGATTTGC
 AGTGTTCACACTCCAAGTAGTAATCCAAAGTTGCCGCTCCTAAACCCTTCCAGGCACTTTAAAGAGGA
 GGAGACCCACAGCCCATTCAGCAGCCCCCGCTCAGAGGCCCGGAGAGAGTTATCAAATGGGACACAT
 GCGACGCTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/jc1437_c11.zip
Restriction Sites: Sgfl-Mlul
ACCN: NM_007399
Insert Size: 2250 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_007399.3](#), [NP_031425.2](#)

RefSeq Size: 4605 bp

RefSeq ORF: 2250 bp

Locus ID: 11487

UniProt ID: [O35598](#)

Cytogenetics: 9 39.53 cM

Gene Summary: 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 enzyme that is involved in the proteolytic release of membrane-bound proteins in a process called ectodomain shedding. Mice lacking the encoded protein die in utero with multiple defects of the developing central nervous system, somites, and cardiovascular system. [provided by RefSeq, May 2016]