

Product datasheet for **MC221842**

Adam22 (NM_001007221) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adam22 (NM_001007221) 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: >MC221842 representing NM_001007221
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCAGGCAGCGCGCCGCGTCTTCTGGCTGCTCTGCGTCTTGGGACCTGCCCCCTGGCGCGTGC
 GTCGGGCAGGAGTCGCCTCACTGAAAGGACTGGAGAGGGGAAAGAAAACCGCTTCTGGAGCGCCAGAG
 CATCATACCCTGCGCCTCATCTATCGCTTGGCGGCGAGGATGAACTCAGCACAAACGCTCGACACG
 CGGGTGCGGGGCACCCTGGCGGACCGCAGCTGACGCATGTGGACAAGGCAAGCTTCCGGGTGGACGCT
 TTGGAACCTCTTTCGTTCTCGACGCTCTGCTGAACCACGAGTTGCTGTCGTCAGGTTATGTAGAGAGACA
 GATTGAACATGGAGGCAAGGTCGTGGAGAACAAGGAGGAGAACAAGTATTACCAGGGCCAGATTGCA
 GGAACCCCTGTCTCATTGTTGCCCTATCAACATGCCATGGACTCCATGGGATGTTCTATGATGGAACCC
 ACACATATCTCATTGAGCCAGAAGAAAATGAGAAGTCTCAAGAGTCGCTCATTGCTACTCCGTGTACAA
 ATCCAGACAGTTGAATTTCCCTTGGATGACCTTCCGTCTGAATTTCAACGCGTAAACATTACTCCCCT
 CAGTTTATTTGAAGCCAAGACTAAAGAGGAGAAAAGACAGCTTCTTCGATTTCCCTCGGAATGTAGAGG
 AGGAAACCAAATACATCGAACTGATGATTGTGAATGATCATCTCATGTTTAAAAAGCACCGGCTTCTGT
 TGTATATACTAATACCTATGCGAAGTCTGTGGTGAACATGGCAGATGTGATCTATAAAGACCAACTGAAA
 ACTAGGATTGTATTGGTTGCCATGGAAACCTGGGCTGCTGACAACAAGTTTGCCATATCTGAAAACCCAC
 TGATTACCCTTCGTGAGTTCATGAAATACAGGAGGGATTTTATCAAGGAGAAGGCTGATGCGATTCATCT
 TTTCTCGGCAGTCAATTTGAGAGTAGCCGGAGCGGGCAGCTTATATTGGTGGGATTTGCTCGCTGCTG
 AGAGGAGGAGGCGTGAATGAATTTGGAAAACGGATTTAATGGCAGTTACCCTCGCTCAGTCACTAGCCC
 ACAATGTCGGTATAATCTCTGACAAAAGAAAACCTAGCAAGTGGTGAAGTAAATGTGAGGACACCTGGTC
 CGGGTGCATAATGGGAGACACCGGCTACTATCTCCGAAAAAGTTCACTCAGTGCATGTGAGGAATAT
 CATGACTTCTGAATAGTGGTGGAGGTGCCTGCCTGTTCAACAAGCCTTCCAAGCTTCTTGATCCTCCTG
 AGTGTGAAAACGGCTTCAATGAAACCGGAGAGGAGTGTGATTGTGGCACCCCTGCAGAATGTGCCCTTGA
 AGGGGCAGAGTGTGTAAGAAATGCACCTTGACCCAGGATTCTCAATGCAGTGTGGCCTTTGTTGTA
 AAGTGAAGTTTCAGCCTCTGGGACCGTGTGCCGAGAGGCAGTGAACGACTGTGACATTCGTGAAATAT
 GTTCAGGAAATTCAGCCAGTGTGCCCAATGTGCATAAAATGGATGGATATTCGTGTGATGGTACTCA
 GGAATTTGCTTTGGAGGAAGATGTAACCAGAGATAGACAATGCAAAATACATCTGGGGGCAAAAGGTA
 ACAGCATCTGACAGGTAAGTATGAGAACTGAACATTTAGGGGACGGAGAAGGTAACGTGGGAAAG
 ACAAGGACACGTGGACACAGTGCACAAACGGGATGACTTTGTGGTTACCTCCTGTGCACAACATTGG
 CAACATCCCAAGGCTCGGGGAGCTTGTGGTGGAGTACATCCACATTAGTTGTGAGCAAGGAAGAACA
 TAAACTGCAGTGGCGGCATGTTAAACTTGAAGAAGATGTGGATCTTGGCTATGTGGAAGATGGGACGC
 CCTGTGGCCCTCAGATGATGTGCTTGGAAACACAGGTGTCTTCTGTGGCTTCTTCAACTCAGTACTTG
 CTCCAGCAGTAAAGCAGGCACCGTGTGCTCAGGAAATGGAGTTTGCAGCAATGAGCTCAAGTGTGTGTGC
 AACAGGCACTGGACAGGGGCTGACTGCGGCACCCACTTCTCACAATGATGATGCAAGACTGGCATCA
 CCCTGTCTGGCAATGGTGTGCTGGCACTAATATCATAATAGGAATAATTGCCGGCACCATTTTGTGCT
 GGCCCTCATCTTAGGAATAACTGCCTGGGTTATAAAAACTACCGAGAACAGAGGTCAAATGGACTCTCT
 CATTCTTGGAGTAAAGGATTCCAGACACAAAACATATTTTCAGACATCTGTGAAAATGGGAGACCTCGCA
 GTAACCTCTGGCAAGGTAAACATGGGAGGCAACAAAAGAAAATCAGAGGGAAAAGATTTAGACCTCGATC
 TAACTCAACTGAG**TAA**

CTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACG
 ATAAGGTTTAA

Restriction Sites: SgfI-XhoI
ACCN: NM_001007221
Insert Size: 2466 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_001007221.3 , NP_001007222.1
RefSeq Size:	2748 bp
RefSeq ORF:	2466 bp
Locus ID:	11496
UniProt ID:	Q9R1V6
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 (2, also known as beta or A05) lacks an alternate in-frame exon in the 3' coding region, compared to variant 1. The encoded isoform (b) is shorter than isoform a. This isoform (b) may undergo protein processing similar to isoform 5.</p>