

## Product datasheet for **MR222779**

### Adam22 (NM\_001007221) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Adam22 (NM_001007221) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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**ORF Nucleotide Sequence:**

>MR222779 representing NM\_001007221  
 Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGAATTCGTCTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCAGGCAGCGCGGCCGCGTCTTCTGGCTGCTCTGCGTCTTGGGGACCTGCCCCCTGGCGCGCTGCG  
 GTCGGGCAGGAGTCGCCTCACTGAAAGGACTGGAGAGGGGAAAGAAAACCGCTTCTGGAGCGCCAGAG  
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 CGGGTGCGGGGCACCCTGGCGGACCGCAGCTGACGCATGTGGACAAGGCAAGCTTCCGGGTGGACGCTT  
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**CTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACG  
 ATAAGGTTTAA**

**Protein Sequence:** >MR222779 representing NM\_001007221  
 Red=Cloning site Green=Tags(s)

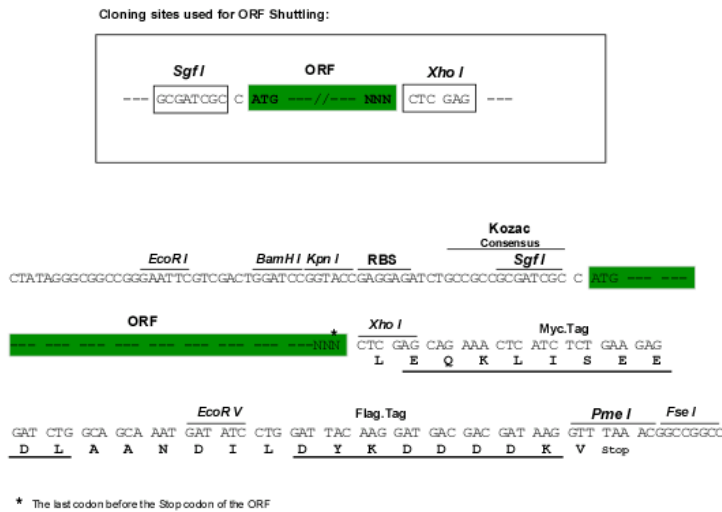
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QFILKPRLKRRKRQLLRFPRNVEEETKYIELMIVNDHLMFKKHRLSVVYNTYAKSVVNMADV IYKDQLK
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RGGGVNEFGKTDLMAVTLAQSLAHNVGII SDKRKLASGECKCEDTWSGCIMGDTGYLPPKFTQCNVEEY
HDFLNSGGGACLFNKPSKLLDPPECGNGFIETGEECDGTPAECALGAECCKKCTLTQDSQCS DGLCCK
KCKFQPLGTVCREAVNDCDIREICSGNSSQCAPNVHKMDGYSCDGTQGICFGRCKTRDRQCKYI WQKV
TASDRYCYEKLNI EGTEKGNCGKDKDTWTQCNKRDVLCGYLLCTNIGNIPRLGELDGEITSTLVVQ QRT
LNCSGAHVKLEEDVDLGYVEDGTPCGPQMMCLEHRCLPVASFNFSTCSSSKAGTVCSGNGVCS NELKVCV
NRHWTGADCGTHFPHNDDAKTGITLSGNGVAGTNI IIGIIAGTILVLALILGITAWGYKNYREQRS NGLS
HSWSERIPDTKHISDICENGRPRSNSWQGNMGGNKKKIRGKRFRPRS NSTE
  
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LEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-XhoI

Cloning Scheme:



ACCN: NM\_001007221

ORF Size: 2463 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.

**RefSeq:** [NM\\_001007221.3](#), [NP\\_001007222.1](#)

**RefSeq Size:** 2629 bp

**RefSeq ORF:** 2466 bp

**Locus ID:** 11496

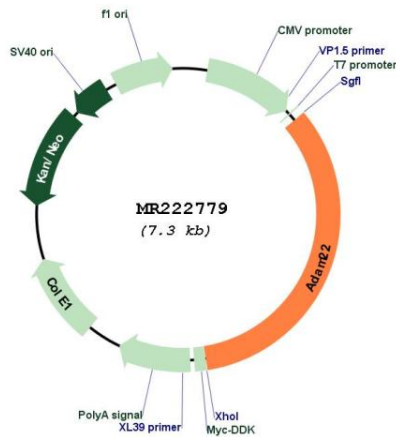
**UniProt ID:** [Q9R1V6](#)

**Cytogenetics:** 5 3.39 cM

**MW:** 91.4 kDa

**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, 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]

**Product images:**



Circular map for MR222779