

## Product datasheet for **MR222778**

### Adam22 (NM\_001007220) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Adam22 (NM_001007220) 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:**

>MR222778 representing NM\_001007220  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCAGGCAGCGCGGCCGCTCTTCTGGCTGCTCTGCGTCTTGGGACCTGCCCCCTGGCGCGCTGCG  
 GTCGGGCAGGAGTCGCCTCACTGAAAGGACTGGAGAGGGGAAAGAAAACCGCTTCTGGAGCGCCAGAG  
 CATCATACCCTGCGCCTCATCTATCGCTTGGCGGCGAGGATGAACTCAGCACAAACGCTCGACACG  
 CGGGTGCGGGGCACCCTGGCGGACCGCAGCTGACGCATGTGGACAAGGCAAGCTTCCGGGTGGACGCT  
 TTGGAACCTCTTTCGTTCTCGACGCTCTGCTGAACCACGAGTTGCTGTCGTCAGGTTATGTAGAGAGACA  
 GATTGAACATGGAGGCAAGGTCGTGGAGAACAAGGAGGAGAACAAGTATTACCAGGGCCAGATTGCA  
 GGAACCCCTGTCTCATTGTTGCCCTATCAACATGCCATGGACTCCATGGGATGTTCTATGATGGAACCC  
 ACACATATCTCATTGAGCCAGAAGAAAATGAGAAGTCTCAAGAGTCGTCATTGCTACTCCGTGTACAA  
 ATCCAGACAGTTTGAATTTCCCTTGGATGACCTTCCGTCTGAATTTCAACGCGTAAACATTACTCCCCT  
 CAGTTTATTTGAAGCCAAGACTAAAGAGGAGAAAAGACAGCTTCTTCGATTTCCCTCGGAATGTAGAGG  
 AGGAAACCAAATACATCGAACTGATGATTGTGAATGATCATCTCATGTTTAAAAAGCACCGGCTTCTGT  
 TGTATATACTAATACCTATGCGAAGTCTGTGGTGAACATGGCAGATGTGATCTATAAAGACCAACTGAAA  
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 TGATTACCTTCGTGAGTTCATGAAATACAGGAGGGATTTTATCAAGGAGAAGGCTGATGCGATTCATCT  
 TTTCTCGGCAGTCAATTTGAGAGTAGCCGGAGCGGGCAGCTTATATTGGTGGGATTTGCTCGCTGCTG  
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 ACAATGTCCGTATAATCTCTGACAAAAGAAAAGTACAGTGGTGGTAAATGTGAGGACACCTGGTC  
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 CTCCAGCAGTAAAGCAGGCACCGTGTGCTCAGGAAATGGAGTTTGCAGCAATGAGCTCAAGTGTGTGTGC  
 AACAGGCACTGGACAGGGGCTGACTGCGGCACCCACTTCTCACAATGATGATGCAAAGACTGGCATCA  
 CCCTGTCTGGCAATGGTGTGCTGGCACTAATATCATAATAGGAATAATTGCCGGCACCATTTTATGCT  
 GGCCCTCATCTTAGGAATAACTGCCTGGGGTTATAAAAAGTACCGAGAACAGAGACAGTTACCCAGGGA  
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 AAAAGAAAATCAGAGGGAAAAGATTTAGACCTCGATCTAACTCAACTGAG

**CTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACG  
 ATAAGGTTTAA**

Protein Sequence: >MR222778 representing NM\_001007220  
 Red=Cloning site Green=Tags(s)

MQAAAAASFLLCVLGTCLARCGRAGVASLKGLERKGNRFLERQSIIPRLIYRLGGEDETQHNQLDT  
 RVRGDPGGPQLTHVDKASFRVDAFGTSFVLDVLLNHELLSSGYVERQIEHGGKVVENKGGEGHCYYQGQIR  
 GNPVSFVALSTCHLHGMYFDGNHTYLIEPEENEKSQESSHCHSVYKSRQFEFPLDDLPSEFQRVNITPP  
 QFILKPRLKRRKRQLLRFPRNVEEETKYIELMIVNDHLMFKKHRLSVVYNTYAKSVVNMADVITYKDQK  
 TRIVLVAMETWAADNKFAISENPLITLREFMKYRRDFIKEKADAVHLFSGSQFESSRSGAAYIGGICSL  
 RGGGVNEFGKTDLMAVTLAQSLAHNVGII SDKRKLASGECKCEDTWSGCIMGDTGYLPPKFTQCNVEEY  
 HDFLNSGGGACLFNKPSKLLDPPECNGFIETGEECDGTPAECALGAECCCKCTLTQDSQCSDDLCK  
 KCKFQPLGTVCREAVNDCDIREICSGNSSQCAPNVHKMDGYSCDGTGGICFGRCKTRDRQCKYIWQKV  
 TASDRYCYEKLNIETGKNGCGKDKDTWTQCNKRDVLCGYLLCTNIGNIPRLGELDGEITSTLVVQQGRT  
 LNCSGAHVKLEEDVDLGYVEDGTPCGPQMMCLEHRCLPVASFNFSTCSSKAGTVCSNGVCSNELKVCV  
 NRHWTGADCGTHFPNDDAKTGITLSGNGVAGTNIIIGIIAGTILVLALILGITAWGYKNYERQQLPQG  
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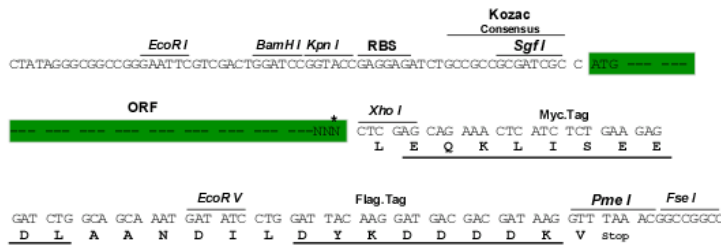
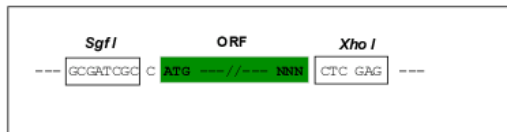
LEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mm9030\\_a04.zip](https://cdn.origene.com/chromatograms/mm9030_a04.zip)

Restriction Sites: SgfI-XhoI

Cloning Scheme:

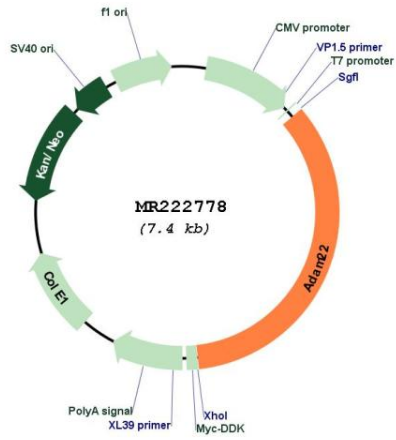
Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

<b>ACCN:</b>	NM_001007220
<b>ORF Size:</b>	2571 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_001007220.3</a>
<b>RefSeq Size:</b>	2777 bp
<b>RefSeq ORF:</b>	2574 bp
<b>Locus ID:</b>	11496
<b>UniProt ID:</b>	<a href="#">Q9R1V6</a>
<b>Cytogenetics:</b>	5 3.39 cM
<b>MW:</b>	95.2 kDa
<b>Gene Summary:</b>	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 MR222778