

Product datasheet for **MR220009**

Adam5 (NM_007401) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adam5 (NM_007401) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adam5
Synonyms:	tMDC; tMDC II; tMDCII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR220009 representing NM_007401
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTCTCTTCTTTTGTCTTTTTGCATCTTAAAGGGCTGCAGGCAGGCCAGAATCTCAGAAAACCA
 CCCTGCAGACAACCTGTTCTGAAAAGATCTCATCACCGGATGTGGAACAGATGCAGAAGACCATATGGC
 TTATCTTATTACAATAAATGAAACCCCCATTTTCATCCATCTTAAAAACAATCATTTATAACTCCAAC
 GCAGTTGTTTATACTTACGACAGAAATGATGTTCAACATTCTCAACCTTTGTCAGCTCTGAAAAATTGCA
 ATTACAATGGATATGTTGCAGGTTTCCAAACTCTATCGTGACCCTCACCGTTTGCACAGGACTCAGGGG
 AATCATACAGTTTGAAAATGTCTCTATGCAATCGAGCCCGTGGAAACCTGTCAGGATTTGTGCACGTG
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 TATGATGGATATCATCGTGGATAAAAAGCTGTTTGATTACATGGGTTCTGACACTGAAGTTGTGCTACAG
 AAAGTCATTACAGATCATCGGTTTCGTTAACACTATGCTCTCCAAGTTAAAAGTACTGTCTTAATAAATT
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 CTCAATTTGAAAACATGAGTATAGATCACAACTGTTGCATACTTACTGGCATTGAGGAGCACCCCTGCT
 TCCACGGGGGCTCTATATCCAGGGAATCTGTGCAAACTGGAGTACAATGCTGCTGTTGCCCTGTATCCAA
 AAGGTTTATCGTTAGAATCGTTTAGTGTCTTGTCTGCAGCTGCTGAGCATTGGTATGGGCTTAACTTA
 CGACTGAGAAGTCCACTGTACAGGAGAAGTTGCCTAATGACGCCAAAGCAATATATTCTGGGGGT
 GTGAAGGACTTCAGTACTTGTACCCTGGATGACTTTAAATACCTGTCAACAAGACAAGACCTTAGATGTC
 TCCAGGACTTGCCTTTGGAAAGAAAGCCAGCTCGCAGGCCAAGGAGAATCTGTGGCAATGGGATACTGGA
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 CTTTTTGTGAGGAACATAAGGGACAGTTTGAAGCGTTGATGATGGACATAAATATCATGTTGAAGATGG
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR220009 representing NM_007401
 Red=Cloning site Green=Tags(s)

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MFLLLLLFLHLKGLQAGQNPQKTTLQTTVPEKISSPDVETDAEDHMAYLITINETPHFIHLKKQSFITPT
AVVYTYDRNDVQHSQPLSALENCNYNGYVAGFPNSIVTLTVCTGLRGIQFENVSYAIEPVETLSGFVHV
IYENTNKHAVIPDLGKNQSYSWFDESDYQFRSNMKKSGFTVLRQRFIMMDIIVDKKLFYMGSDTEVVLQ
KVIQIIGFVNTMLSKLKLTVLINSIEIWSKENRIRLSKAVDDL VQFSIWKHEYRSQHVAYLAFEEHPA
STGALYPGNLCKLEYNAVALYPKGLSLESFSVIVLQLLSIGMGLTYDTENCHCTGEVCLMTPKAIYSGG
VKDFSTCTLDLDFKYLSTRQDLRCLQDLPLERKPARRPRRRCGNGILEMNEQCDCGTLKNCTRKCCDPM
CRLKNKATCGSGECCSQDCTVKMNDVVCRKSVDECDVVEYCNKDPYCVPTNTYARNGQYCESGEAFCFEG
RCQTADKQCMSMLGKYVRGASFACYEEFNDRGDRFGNCIHNFCFRNSLCGKLICTWPFKKLVLKANLSV
AYAQRDDLCVAMYKGGRIPKTKTTYSNPADRDETFVNDGTICGPD MFCLRASC TETRFHMDSSKCDST
RDCNDHGVCNNLQHCHCDIGYNPPFCEEHKGQFGSVDGDKYHVEDGKSYKQQSHSNLKKNLQLILYIS
LPLLVMISAVVIKQSKLSRVCDRERSESDSSTTEDSGSNTNVTSSGGSTSH
  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_007401

ORF Size: 2253 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_007401.3](#), [NP_031427.2](#)

RefSeq Size: 2791 bp

RefSeq ORF: 2256 bp

Locus ID: 11499

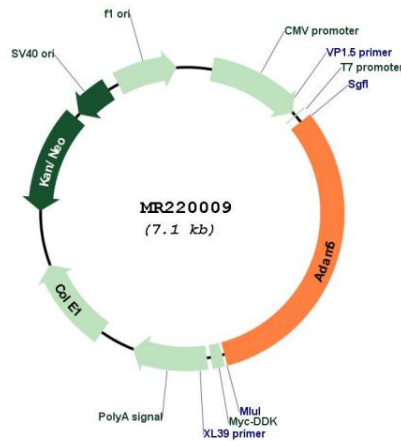
UniProt ID: [Q3TTE0](#)

Cytogenetics: 8 13.26 cM

MW: 85 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. This gene is located in a cluster of related ADAM genes on chromosome 8. 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 MR220009