

Product datasheet for **MR210119**

Adam5 (BC094237) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Adam5 (BC094237) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Adam5 |
| Synonyms: | 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:

>MR210119 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGTTCTCTTCTTTTGTCTTTTGCATCTTAAAGGGCTGCAGGCAGGCCAGAATCTCAGAAAACCA
CCCTGCAGACAACCTGTTCTGAAAAGATCTCATCACCGGATGTGGAACAGATGCAGAAGACCATATGGC
TTATCTTATTACAATAAATGAAACCCCCATTTTCATCCATCTTAAAAACAATCATTTATAACTCCAAC
GCAGTTGTTTATACTTACGACAGAAATGATGTTCAACATTCTCAACCTTTGTCAGCTCTGAAAAATTGCA
ATTACAATGGATATGTTGCAGGTTTCCAAACTCTATCGTGACCCTCACCGTTTGCACAGGACTCAGGGG
AATCATACAGTTTGAAAATGTCTCTATGCAATCGAGCCCGTGGAAACCTGTCAGGATTTGTCACGTG
ATCTATGAGAACAACAACATGCTGTGATTCTGACCTGGGAAAGAATCAGTCATACAGTTGGTTTG
ACGAATCAGATTCAATTCGGAGTAACATGAAGAAATCTGGATTTACCGTGTACGCCAACGATTCAT
TATGATGGATATCATCGTGGATAAAAAGCTGTTTGATTACATGGGTTCTGACACTGAAGTTGTGCTACAG
AAAGTCATTACAGATCATCGGTTTCGTTAACACTATGCTCTCCAAGTTAAACTGACTGTCTTAATAAATT
CCATTGAAATCTGGTCAAGGAAAACAGAATTCGTTTATCAAAGGCAGTTGATGACTTATTGGTTCAAGT
CTCAATTTGAAAACATGAGTATAGATCACAACTGTTGCATACTTACTGGCATTGAGGAGCACCCTGCT
TCCACGGGGCTCTATATCCAGGGAATCTGTGCAAACTGGAGTACAATGCTGCTGTTGCCCTGTATCCAA
AAGGTTTATCGTTAGAATCGTTTAGTGCTTGTCTGCAGCTGCTGAGCATTGGTATGGGCTTAACTTA
CGACTGAGAAGTCCACTGTACAGGAGAAGTTGCCTAATGACGCCAAAGCAATATATTCTGGGGT
GTGAAGGACTTCAGTACTTGTACCCTGGATGACTTTAAATACCTGTCAACAAGACAAGACCTTAGATGTC
TCCAGGACTTGCCTTTGAAAAGAAAGCCAGCTCGCAGGCCAAGGAGAATCTGTGGCAATGGGATACTGGA
GATGAACGAGCAATGTGACTGTGGCACTTTGAAGAACTGTACACATAGAAAATGCTGTGACCCTATGTCA
TGTCGATTGAAAACAAGGCCACGTGTGTTCTGGGGAGTGTGTAGTCAAGATTGCACGGTAAAAATGA
ATGATGTGGTCTGTAGAAAGTCGGTAGATGAATGTGACTTTGTGGAGTACTGTAACGGAAAAGATCCCTA
TTGTGTCCTAACACATATGCACGCAATGGGCAGTATTGTGAATCAGGTGAAGCCTTCTGTTTTGAAGGA
CGATGTCAGACTGCTGACAAGCAATGTATGAGCATGCTTGGGAAATACGTGAGAGGGGCTCCTTTGCGT
GCTATGAAGAGTTCAATTCAGAGGCGATAGATTTGGCAACTGTATTATAATTTTTGTGCTTTCAGAAA
TTCTCTGTGGGAACTAATCTGTACGTGGCCATTCAAGAAGCTGGTGTAAAAGCCAATTTATCTGTG
GCCTATGCGCAAATCCGGGATGACTTGTGTGTAGCTATGTATAAAGGTGGGAGGATACCTAAGACAACAA
AGACGACATATCCAATCCAGCGGACAGAGATGAGACATTTGTAACGACGGCACCATCTGTGGCCCTGA
TATGTTTTGTTTGGAGAGCATCATGCACAGAACTAGATTTACATGGATTCTTCCAAGTGTGATTCAACT
AGAGATTGCAACGACCATGGGGTTTGCAACAATTTACAGCATTGCCACTGTGATATAGGATATAACCCTC
CTTTTTGTGAGGAACATAAGGGACAGTTTGAAGCGTTGATGATGGACATAAATATCATGTTGAAGCACC
TCCCACTAATCAAGTATTGCTACCCAAAAGAAGATAATCTGGATTAACCATGAGAACTGACATTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210119 protein sequence
Red=Cloning site Green=Tags(s)

MFLLLLLFLHLKGLQAGQNPQKTTLQTTVPEKISSPDVETDAEDHMAYLITINETPHFIHLKKQSFITPT
 AVVYTYDRNDVQHSQPLSALENCNYNGYVAGFPNSIVTLTVCTGLRGIQFENVSYAIEPVETLSGFVHV
 IYENTNKHAVIPDLGKNQSYSWFDES DYQFRSNMKKSGFTVLRQRFIMMDIIVDKKLFDYMGSDTEVVLQ
 KVIQIIGFVNTMLSKLKLTVLINSIEIWSKENRIRLSKAVDDLLVQFSIWKHEYRSQHVAYLLAFEHHPA
 STGALYPGNLCKLEYNAVALYPKGLSLESFSVIVLQLLSIGMGLTYDTENCHCTGEVCLMTPKAIYSGG
 VKDFSTCTLDLDFKYLSTRQDLRCLQDLPLERKPARRPRRRCGNGILEMNEQCDCGLTKNCTHRKCCDPM
 SRLKKNKATCGSGECCSQDCTVKMNDVVCRKSVDECDVVEYCNKDPYCVNPTYARNGQYCESGEAFCFEG
 RCQTADKQCMSMLGKYVRGASFACYEEFNDRGDRFGNCIHNFCFRNSLCGKLICTWPFKKLVLKANLSV
 AYAQIRDDL CVAMYKGRIPKTKTTYSNPADRDETFVNDGTICGPD MFCLRASCTETRFHMDSSKCDST
 RDCNDHGVCNNLQHCHCDIGYNPPFCEEHKQFGSVDGDKYHVEAPPTNQVLLPQKKIWINHEKLTFF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: BC094237

ORF Size: 2097 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: [BC094237](#), [AAH94237](#)

RefSeq Size: 2290 bp

RefSeq ORF: 2099 bp

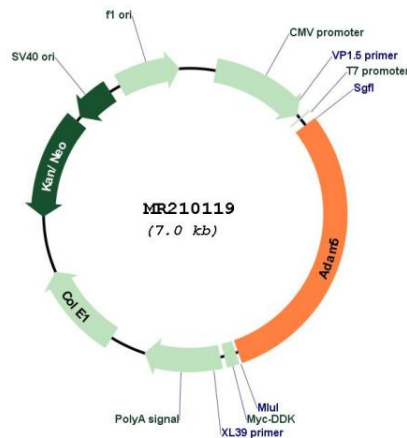
Locus ID: 11499

Cytogenetics: 8 13.26 cM

MW: 79.1 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 MR210119