

Product datasheet for **MG210119**

Adam5 (BC094237) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adam5 (BC094237) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Adam5
Synonyms:	tMDC II; tMDCII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG210119 representing BC094237
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTCTCTTCTTTTGTCTTTTTGCATCTTAAAGGGCTGCAGGCAGGCCAGAATCTCAGAAAACCA
 CCCTGCAGACAACCTGTTCTGAAAAGATCTCATCACCGGATGTGGAACAGATGCAGAAGACCATATGGC
 TTATCTTATTACAATAAATGAAACCCCCATTTTCATCCATCTTAAAAACAATCATTTATAACTCCAAC
 GCAGTTGTTTATACTTACGACAGAAATGATGTTCAACATTCTCAACCTTTGTCAGCTCTGAAAAATTGCA
 ATTACAATGGATATGTTGCAGGTTTCCAAACTCTATCGTGACCCTCACCGTTTGCACAGGACTCAGGGG
 AATCATACAGTTTGAAAATGTCTCCTATGCAATCGAGCCCGTGGAAACCTGTCAGGATTTGTCACGTG
 ATCTATGAGAACACAAACAAACATGCTGTGATTCTGACCTGGGAAAGAATCAGTCATACAGTTGGTTT
 ACGAATCAGATTCAATTCGGAGTAACATGAAGAAATCTGGATTTACCGTGTACGCCAACGATTTCAT
 TATGATGGATATCATCGTGGATAAAAAGCTGTTTGATTACATGGGTTCTGACACTGAAGTTGTGCTACAG
 AAAGTCATTACAGATCATCGGTTTCGTTAACACTATGCTCTCCAAGTTAAACTGACTGTCTTAATAAATT
 CCATTGAAATCTGGTCAAGGAAAACAGAATTCGTTTATCAAAGGCAGTTGATGACTTATTGGTTCAAGT
 CTCAATTTGAAAACATGAGTATAGATCACAACTGTTGCATACTTACTGGCATTGAGGAGCACCCCTGCT
 TCCACGGGGGCTCTATATCCAGGGAATCTGTGCAAACCTGGAGTACAATGCTGCTGTTGCCCTGTATCCAA
 AAGGTTTATCGTTAGAATCGTTTAGTGCTTGTCTGCAGCTGCTGAGCATTGGTATGGGCTTAACTTA
 CGACTGAGAAGTCCACTGTACAGGAGAAGTTGCCTAATGACGCCAAAGCAATATATTCTGGGGT
 GTGAAGGACTTCAGTACTTGTACCCTGGATGACTTTAAATACCTGTCAACAAGACAAGACCTTAGATGTC
 TCCAGGACTTGCCTTTGAAAAGAAAGCCAGCTCGCAGGCCAAGGAGAATCTGTGGCAATGGGATACTGGA
 GATGAACGAGCAATGTGACTGTGGCACTTTGAAGAACTGTACACATAGAAAATGCTGTGACCCTATGTCA
 TGTCGATTGAAAACAAGGCCACGTGTGTTCTGGGGAGTGTGTAGTCAAGATTGCACGGTAAAAATGA
 ATGATGTGGTCTGTAGAAAGTCGGTAGATGAATGTGACTTTGTGGAGTACTGTAACGGAAAAGATCCCTA
 TTGTGTCCCTAACACATATGCACGCAATGGGCAGTATTGTGAATCAGGTGAAGCCTTCTGTTTTGAAGGA
 CGATGTCAGACTGCTGACAAGCAATGTATGAGCATGCTTGGGAAATACGTGAGAGGGGCTCCTTTGCGT
 GCTATGAAGAGTTCAATTCAGAGGCGATAGATTTGGCAACTGTATTATAATTTTTGTGCTTTCAGAAA
 TTCTCTGTGGGAAACTAATCTGTACGTGGCCATTCAAGAAGCTGGTGTAAAAGCCAATTTATCTGTG
 GCCTATGCGCAAATCCGGGATGACTTGTGTAGCTATGTATAAAGGTGGGAGGATACCTAAGACAACAA
 AGACGACATATCCAATCCAGCGGACAGAGATGAGACATTTGTAACGACGGCACCATCTGTGGCCCTGA
 TATGTTTTGTTTGGAGAGCATCATGCACAGAAACTAGATTTACATGGATTCTTCCAAGTGTGATTCAACT
 AGAGATTGCAACGACCATGGGGTTTGCAACAATTTACAGCATTGCCACTGTGATATAGGATATAACCCTC
 CTTTTTGTGAGGAACATAAGGGACAGTTTGAAGCGTTGATGATGGACATAAATATCATGTTGAAGCACC
 TCCCACTAATCAAGTATTGCTACCCAAAAGAAGATAATCTGGATTAACCATGAGAACTGACATTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG210119 representing BC094237
 Red=Cloning site Green=Tags(s)

MFLLLLLFLHLKGLQAGQNPQKTTLQTTVPEKISSPDVETDAEDHMAYLITINETPHFIHLKKQSFITPT
 AVVYTYDRNDVQHSQPLSALENCNYNGYVAGFPNSIVTLTVCTGLRGIQFENVSYAIEPVETLSGFVHV
 IYENTNKHAVIPDLGKNQSYSWFDES DYQFRSNMKKSGFTVLRQRFIMMDIIVDKKLFDYMGSDTEVVLQ
 KVIQIIGFVNTMLSKLKLTVLINSIEIWSKENRIRLSKAVDDLLVQFSIWKHEYRSQHVAYLLAFEEHPA
 STGALYPGNLCKLEYNAVALYPKGLSLESFSVIVLQLLSIGMGLTYDTENCHCTGEVCLMTPKAIYSSG
 VKDFSTCTLDLDFKYLSTRQDLRCLQDLPLERKPARRPRRRCGNGILEMNEQCDCGTLKNCNTHRKCDDPMS
 CRLKKNKATCGSGECCSQDCTVKMNDVVCRKSVDECDVFEYCNGKDPYCVNPTYARNGQYCESGEAFCFEG
 RCQTADKQCMSMLGKYVRGASFACYEEFNDRGDRFGNCIHNFCFRNSLCGKLICTWPFKLVLKANLSV
 AYAQIRDDLCVAMYKGGRIPKTKTTYSNPADRDETFVNDGTICGPD MFCLRASCTETRFHMDSSKCDST
 RDCNDHGVCNNLQHCHCDIGYNPPFCEEHKQFGSVDGDKYHVEAPPTNQVLLPQKKIWINHEKLTFF

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: BC094237

ORF Size: 2099 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

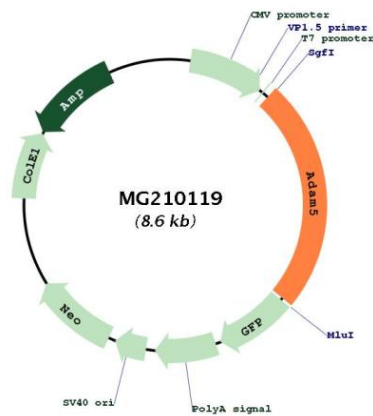
RefSeq ORF: 2099 bp

Locus ID: 11499

Cytogenetics: 8 13.26 cM

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 MG210119