OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR216099

Adam11 (NM_009613) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adam11 (NM_009613) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adam11
Synonyms:	AW060611; Mdc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>MR216099 representing NM_009613
Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCGC
GCCC

ATGAGGCGGCTGCGGCGCTGGGCGATCGCGGCTCTGCTGCTGTTACCGCTTCTCCCCCCGCCCGGTCTTG
GGGCCCTGGGTCCCAGAGGAGCTCTGCACTGGAGGAGCTCAGCCCATGTGGGGAGCCCAGAGAGTCCAGA
GGGCTCTGAGGTCACAGAGCCCAGCCGGCTGGTAAGGCAGAGCTCCGGGGGAGAGGTCCGAAAGCCACAG
TTGGACACCAGGGTCCGCCAGGATCCGCCCAGGGGGACGCCTGTGCACCTGGCCCAGGTGAGTTTCGTCA
TCCCGGCCTTCGACTCAAACTTCACTCTGGACCTGGAGCTGAACCATCACCTCCTGTCCTCGCAGTATGT
GGAGCGCCACTTCAGCCGGGAGGGAACAAGACAACACAGCACTGGGGCTGGAGACCACTGCTACTACCAT
GGGAAACTCCGGGGCAACCCACAGTCCTTTGCTGCACTCTCTACATGCCAGGGGCTGCATGGGGTCTTCT
CTGATGGCAACCTGACTTACATCGTAGAGCCTAAGGAGATAGCTGGGCCCTGGGGACCCCCACAGGGACC
CCTTCCCCACCTCATTTACCGGACCCCTCTCCTCCCAGCCCCCCTTGGATGCAGGGAGCCAGGCTGCCTG
TTTGCTGTCCCTGCCCAGTCTGCTCTCCCCAACTGGCCCAAGCTAAGAAGGAAAAGGCAGGTCCGCAGGG
GCCACCCCACAGTGCACAGCGAGACCAAGTATGTGGAGTTGATTGTAATCAATGACCACCAGCTGTTTGA
GCAGATGCGGCAGTCAGTGGTCCTCACCAGCAACTTTGCAAAATCTGTTGTGAACCTGGCAGATGTGATA
TACAAGGAACAGCTCAACACAAGAATTGTTCTGGTTGCCATGGAAACGTGGGCAGATGGGGACAAGATCC
AGGTGCAGGATGACCTACTGGAGACCCTGGCCCGGCTTATGGTCTACCGGCGGGAGGGTCTGCCTGAGCC
CAGTGATGCCACCCACCTCTTCTCGGGTAGAACCTTCCAGAGCACCAGCAGCGGGGCGGCCTACGTGGGA
GGCATCTGTTCACTGTCCCGGGGTGGAGGTGTGAACGAGTATGGCAACATGGGTGCCATGGCGGTGACCC
TGGCCCAGACGCTAGGGCAGAACTTGGGCATGATGTGGAATAAGCACCGGAGCTCAGCAGGGGACTGCAA
GTGTCCAGACATTTGGCTGGGCTGCATCATGGAGGACACTGGGTTCTATTTGCCCCGCAAGTTCTCGCGC
TGCAGCATCGACGAATACAACCAGTTTCTGCAGGAGGGAGGCGGGAGCTGCCTGTTCAACAAGCCCCTCA
AGCTTCTGGACCCTCCCGAGTGCGGAAACGGCTTCGTGGAGGCGGGAGAGGAGTGCGACTGCGGGTCGGT
GCAGGAGTGCAGCCGAGCAGGGGGCAACTGCTGCAAAAAATGCACCTTGACGCACGACGCCATGTGCAGC
GATGGGCTCTGTTGTCGCCGCTGCAAGTATGAGCCACGAGGTGTCTCCTGCCGAGAAGCGGTGAATGAGT
GTGACATTGCAGAGACCTGCACCGGCGACTCAAGCCAGTGTCCCCCTAACCTTCACAAGCTGGACGGTTA
CTACTGTGATCATGAGCAGGGTCGTTGCTATGGAGGCCGCTGTAAAACCCGGGACCGGCAGTGCCAAGCC
CTATGGGGCCATGCGGCTGCGGATCGTTTCTGCTATGAGAAGCTGAACGTGGAGGGGACAGAGCGTGGAA
ACTGTGGACGCAAGGGATCTGGTTGGGTCCAGTGCAGTAAGCAGGATGTGCTCTGTGGCTTCCTTCTGTG
CGTCAACATCTCTGGAGCTCCGCGGCTAGGGGATCTGGGGGGCGACATCAGCAGTGTCACCTTCTACCAC
CAGGGCAAGGAGTTGGACTGCAGGGGAGGCCACGTGCAGCTAGCTGATGGCTCGGACCTGAGCTATGTGG
AGGACGGCACGGCCTGTGGGCCCAACATGTTGTGCCTAGATCACCGCTGCCTGCCAGCCTCTGCCTTCAA
CTTCAGCACCTGCCCTGGAAGTGGAGAGCGAAGGATCTGCTCCCATCATGGGGTTTGCAGCAACGAGGGG
AAGTGTATCTGTCAGCCAGACTGGACAGGCAAAGACTGCAGTATTCACAACCCACTGCCCACGTCCCCTC
CCACTGGGGAGACTGAGAGATACAAAGGTCCCAGCGGTACCAACATCATCATTGGCTCCATCGCCGGGGC
TGTCCTGGTCGCAGCCATCGTCCTGGGCGGCACGGGCTGGGGATTTAAAAACATCCGTCGTGGAAGGTCC
GGAGGGGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>MR216099 representing NM_009613
Red=Cloning site Green=Tags(s)

MRRLRRWAIAALLLLPLLPPPGLGALGPRGALHWRSSAHVGSPESPEGSEVTEPSRLVRQSSGGEVRKPQ
LDTRVRQDPPRGTPVHLAQVSFVIPAFDSNFTLDLELNHHLLSSQYVERHFSREGTRQHSTGAGDHCYYH
GKLRGNPQSFAALSTCQGLHGVFSDGNLTYIVEPKEIAGPWGPPQGPLPHLIYRTPLLPAPLGCREPGCL
FAVPAQSALPNWPKLRRKRQVRRGHPTVHSETKYVELIVINDHQLFEQMRQSVVLTSNFAKSVVNLADVI
YKEQLNTRIVLVAMETWADGDKIQVQDDLLETLARLMVYRREGLPEPSDATHLFSGRTFQSTSSGAAYVG
GICSLSRGGGVNEYGNMGAMAVTLAQTLGQNLGMMWNKHRSSAGDCKCPDIWLGCIMEDTGFYLPRKFSR
CSIDEYNQFLQEGGGSCLFNKPLKLLDPPECGNGFVEAGEECDCGSVQECSRAGGNCCKKCTLTHDAMCS
DGLCCRRCKYEPRGVSCREAVNECDIAETCTGDSSQCPPNLHKLDGYYCDHEQGRCYGGRCKTRDRQCQA
LWGHAAADRFCYEKLNVEGTERGNCGRKGSGWVQCSKQDVLCGFLLCVNISGAPRLGDLGGDISSVTFYH
QGKELDCRGGHVQLADGSDLSYVEDGTACGPNMLCLDHRCLPASAFNFSTCPGSGERRICSHHGVCSNEG
KCICQPDWTGKDCSIHNPLPTSPPTGETERYKGPSGTNIIIGSIAGAVLVAAIVLGGTGWGFKNIRRGRS
GGA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9004_b05.zip

Restriction Sites: AscI-MluI

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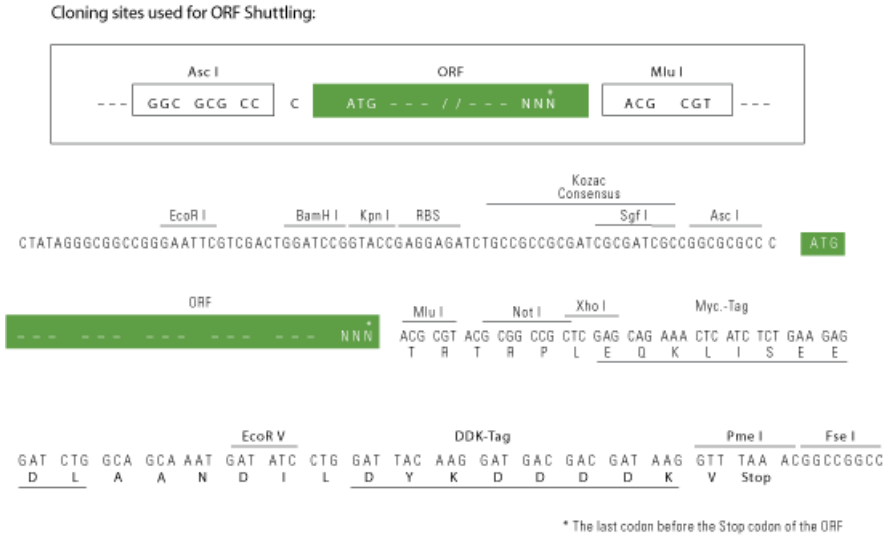
Cloning Scheme:



ACCN: NM_009613

ORF Size: 2319 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).

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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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_009613.3, NP_033743.2

RefSeq Size: 4647 bp

RefSeq ORF: 2322 bp

Locus ID: 11488

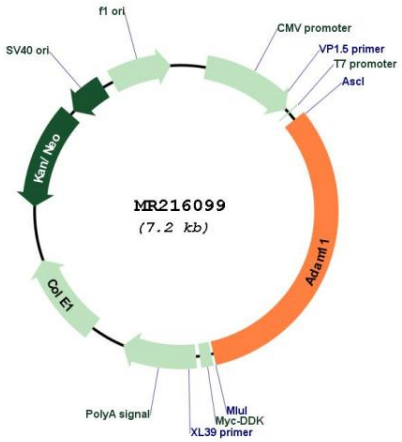
UniProt ID: Q9R1V4

Cytogenetics: 11 66.48 cM

MW: 84.6 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 defects in spatial learning, motor coordination and altered perception of pain. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar processing. [provided by RefSeq, May 2016]

Product images:



Circular map for MR216099

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