

Product datasheet for **SC110204**

ADAM9 (NM_003816) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADAM9 (NM_003816) Human Untagged Clone
Tag:	Tag Free
Symbol:	ADAM9
Synonyms:	CORD9; MCMP; MDC9; Mltng
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_003816, the custom clone sequence may differ by one or more nucleotides

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ATGGGGTCTGGCGCGCTTCCCTCGGGACCCTTCGTGTCGGTGGTGTCTGTTGCTTGGCCTGGTGG
GCCAGTCTCGGTGCGCGCGGCCAGGCTTCAACAGACCTCACATCTTCTTCTATGAAATTATAAC
TCCTTGGAGATTAAC TAGAGAAAGAAGAGAAGCCCTAGGCCCTATTCAAAACAAGTATCTTATGTTATT
CAGGCTGAAGGAAAAGAGCATATTATTCACCTGGAAAGGAACAAAGACCTTTTGCCTGAAGATTTGTGG
TTTATACTTACAACAAGGAAGGGACTTTAATCACTGACCATCCCAATATACAGAATCATTGTCATTATCG
GGGCTATGTGGAGGGAGTTCATAATTCATCCATTGCTCTTAGCGACTGTTTTGGACTCAGAGGATTGCTG
CATTTAGAGAATGCGAGTTATGGGATTGAACCCCTGCAGAACAGCTCTCATTTTGAGCACATCATTTATC
GAATGGATGATGTCTACAAGAGCCTCTGAAATGTGGAGTTTCCAACAAGGATATAGAGAAAAGAACTGC
AAAGGATGAAGAGGAAGAGCCTCCAGCATGACTCAGCTACTTGAAGAAGAAGAGCTGTCTGCCACAG
ACCCGGTATGTGGAGCTGTTTATTGTCGTAGACAAGGAAAGGTATGACATGATGGGAAGAAATCAGACTG
CTGTGAGAGAAGAGATGATTCTCCTGGCAAACCTACTTGGATAGTATGTATATTATGTTAAATATTGAAAT
TGTGCTAGTTGGACTGGAGATTTGGACCAATGGAACCTGATCAACATAGTTGGGGGTGCTGGTGTATGTG
CTGGGGAACTTCGTGCAGTGGCGGGAAAAGTTTCTTATCACACGTCGGAGACATGACAGTGCACAGCTAG
TTCTAAAGAAAAGTTTTGGTGGAACTGCAGGAATGGCATTGTGGGAACAGTGTGTTCAAGGAGCCACGC
AGGCGGGATTAATGTGTTTGGACAACTCACTGTGGAGACATTTGCTTCCATTGTTGCTCATGAATTGGGT
CATAATCTTGGAAATGAATCACGATGATGGGAGAGATTGTTCTGTGGAGCAAAGAGCTGCATCATGAATT
CAGGAGCATCGGGTCCAGAACTTTAGCAGTTGCAGTGCAGAGGACTTTGAGAAGTTAACTTTAAATAA
AGGAGGAACTGCCTTCTTAATATTCCAAGCCTGATGAAGCCTATAGTGCTCCCTCCTGTGGTAATAAG
TTGGTGGACGCTGGGGAAGAGTGTGACTGGTACTCCAAGGAATGTGAATTGGACCCTGTCTGCGGAAG
GAAGTACCTGTAAGCTTAAATCATTTGCTGAGTGTGCATATGGTACTGTTGTAAGACTGTCGGTTCCT
TCCAGGAGGTAATTTATGCCGAGGAAAAACAGTGAAGTGTGATGTTCCAGAGTACTGCAATGGTCTTCT
CAGTTCGTGCAGCCAGATGTTTTTATTGAGAAATGGATATCCTTGGCAGAATAACAAAGCCTATTGCTACA
ACGGCATGTGCCAGTATTATGATGCTCAATGTCAAGTCACTTTGGCTCAAAAGCCAAGGCTGCCCCCAA
AGATTGTTTCATTGAAGTGAATTCTAAAGGTGACAGATTTGGCAATTGTGGTTTCTCTGGCAATGAATAC
AAGAAGTGTGCCACTGGGAATGCTTTGTGTGGAAAGCTTCAGTGTGAGAATGTACAAGAGATACCTGTAT
TTGGAATTGTGCCTGCTATTATTCAAACGCCTAGTCGAGGCACCAAATGTTGGGGTGTGGATTTCCAGCT
AGGATCAGATGTTCCAGATCCTGGGATGGTTAACGAAGGCACAAAATGTGGTGTGGAAAGATCTGTAGA
AACTTCCAGTGTGTAGATGCTTCTGTTCTGAATTATGACTGTGATGTTGAGAAAAAGTGTATGGACATG
GGGTATGTAATAGCAATAAGAATTGTCACTGTGAAAATGGCTGGGCTCCCCCAAATTGTGAGACTAAAGG
ATACGGAGGAAGTGTGGACAGTGGACCTACATACAATGAAATGAACTACTGCATTGAGGGACGGACTCTG
GTCTTCTTCTTCTAATTGTTCCCTTATTGTCTGTGCTATTTTTATCTTCATCAAGAGGGATCAACTGT
GGAGAAGTACTTTCAGAAAAGAAGAGATCACAACATATGAGTCAGATGGCAAAAATCAAGCAAACCTTC
TAGACAGCCGGGAGTGTTCCTCGACATGTTTCTCCAGTGACACCTCCAGAGAAGTTCCTATATATGCA
AACAGATTTGCAGTACCAACCTATGCAGCCAAGCAACCTCAGCAGTTCATCAAGGCCACCTCCACCAC
AACCGAAAAGTATCATCTCAGGGAACCTAATTCCTGCCGTCCTGCTCCTGCACCTCCTTATATAGTTC
CCTCACTTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003816 unedited
 CCCCCGCCCGTTGNCGCTATGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAG
 AGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGCGAA
 TTCGGCACGAGGGGAAGAGGCGGAGGTGGAGGCGACCGAGTGCTGAGAGGAACCTGCGGA
 ATCGGCCGAGATGGGGTCTGGCGCGCGCTTCCCTCGGGGACCCTTCGTGTCCGGTGGTT
 GCTGTTGCTTGGCCTGGTGGGCCAGTCTCGTGCGGCGCGCCAGGCTTCAACAGAC
 CTACATCTTTCTTATGAAATTATAACTCCTTGGAGATTAAGTAGAGAAAGAAGAGA
 AGCCCCTAGGCCCTATTCAAACAAGTATCTTATGTTATTAGGCTGAAGGAAAAGAGCA
 TATTATCACTTGAAAGGAACAAGACCTTTTGCCTGAAGATTTTGTGTTTATACTTA
 CAACAAGGAAGGGACTTTAATCACTGACCATCCCAATATACAGAATCATTGTCATTATCG
 GGGCTATGTGNGAGGGAGTTCATAATTCATCCATTGCTCTTAGCGACTGTTTTGGACTCC
 CAGGATTGTTGCATTTCAACATGCGAGTCACTCCGCTTGACCTCCTGCGTCACCGCTCT
 CCTTCTGCGCCCATCTTTATCCACTGCGCGCTGGNNGGGNNGGGGGNNGGGGGTGGG
 TGNTTCCGCCCCCCCCCGCGCCCCCTNTCCGCTCCCGTCCCTCCTCTNTCTCCC
 TGGNNGNNGTGTGCTCGCCACCGCTTCCCTTCCCGCTTCCCCCTCCCGTTTGC
 CCCACTACTNGTGGNNGGNGGNGGCGGTTNNGGNGNTNNGGCCCGTTTTNGGGCG
 GGCTTGGCGNNGGNGTNGNGCGCCCCCTCTCCCTTTTCTCTCCCTCCCTCCCC
 CCCCCGCCCTCCCTG

3' Read Nucleotide Sequence:

>OriGene 3' genomic read for NM_003816 unedited
 NGGGTACTATGNACGCGCCGCATTCTANGATCGAGTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTTTTTGAATTTCAAGTATTTATTTATTGAAAAGGTGATTTGTATA
 TGTATATATACCCAAACCAAAAACACTTTTAAAAAACTAATGAAATTCAGTTAATAAACC
 TATTATTAACCTTTATTATGAAAGGGTATGAAAAATTTTTAGTGCTTAAATTTTACGA
 TCCATACCATATCTGCCATAGTAAAAATTCATTTTTAACACAGCTAAGATGATAACTCAT
 AGATACCACAGTAACTTTTTGTAGGTATTTAAAAAACCATTTTTCTTCTTTCTCCA
 GCCTAATTTCTATGAAAATATTAGTGGCTAATATTTTACATGACCCAGCACACCTTAGTA
 AATGTAAACATTCTAAATGATTTAATAGCCAGCTTTGAAAGTTCAAATTTTAAAGTGCTC
 ATGAAATTCTCAAGTGGTTTTGTAAAAGTTCAATTGATTGAAGAATTTATAATTGGTCT
 GCTTTATTATAGCCCTGAATCAACATATTTGATTAGATCTATTAATACTTCGTACCTTA
 AAGCTTATAAATTTTAAAAATAGTGTATTGTGAACGAATGGCATGCCTTCACATGATT
 CATAATGAAATCTTATATTAATTAATTTCTCTAAGAGTATTACCTATAGGTGAAAGGG
 CATAAAAATGGGAGCGAGTAACTGCGTGGATACCCCCCTCTTTAGATATTTTTGGAC
 TTTCAAAAATAGGAATACTTAATGGGTTCTTGGCCATTCTTTGAAGACAAAATTGCT
 TATTCTGGTGGGGGGGACCGACAAATTCTGGAGGTGAAGGATTTAATTCGCGGCCGGA
 GAAAAATTTTTATTTAG

Restriction Sites:

NotI-NotI

ACCN:

NM_003816

Insert Size:

4000 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_003816.2](#), [NP_003807.1](#)

RefSeq Size: 4111 bp

RefSeq ORF: 2460 bp

Locus ID: 8754

UniProt ID: [Q13443](#)

Cytogenetics: 8p11.22

Domains: Reprolysin, DISIN, Pep_M12B_propep, ACR

Protein Families: Druggable Genome, Protease, Secreted Protein, Transmembrane

Gene Summary: This gene encodes a member of the ADAM (a disintegrin and metalloprotease domain) family. Members of this family are membrane-anchored proteins structurally related to snake venom disintegrins, and have been implicated in a variety of biological processes involving cell-cell and cell-matrix interactions, including fertilization, muscle development, and neurogenesis. The protein encoded by this gene interacts with SH3 domain-containing proteins, binds mitotic arrest deficient 2 beta protein, and is also involved in TPA-induced ectodomain shedding of membrane-anchored heparin-binding EGF-like growth factor. Several alternatively spliced transcript variants have been identified for this gene. [provided by RefSeq, Jul 2010]

Transcript Variant: This variant (1) represents the protein coding transcript.