

Product datasheet for **RC222453**

ADAM9 (NM_003816) Human Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | ADAM9 (NM_003816) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | ADAM9 |
| Synonyms: | CORD9; MCMP; MDC9; Mltng |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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**ORF Nucleotide
Sequence:**

>RC222453 representing NM_003816
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGTCTGGCGCGCTTTCCCTCGGGACCCTTCGTGTCCGGTGGTTGCTGTTGCTTGGCCTGGTGG
 GCCCAGTCTCGGTGCGGCGCGCCAGGCTTTCAACAGACCTCACATCTTTCTTCTATGAAATTATAAC
 TCCTTGAGATTAAGTAGAGAAAAGAGAAGCCCTAGGCCCTATTCAAAAAGTATCTTATGTTATT
 CAGGCTGAAGAAAAGAGCATATTATCACTTGGAAAAGGAACAAAGACCTTTTGCCTGAAGATTTGTGG
 TTTATACTTACAACAAGGAAGGGACTTTAATCACTGACCATCCCAATACAGAATCATTGTCATTATCG
 GGGCTATGTGGAGGGAGTTCATAATTCATCCATTGCTCTTAGCGACTGTTTTGGACTCAGAGGATTGCTG
 CATTTAGAGAATGCGAGTTATGGGATTGAACCCCTGCAGAACAGCTCTCATTTTGAGCACATCATTTATC
 GAATGGATGATGTCTACAAGAGCCTCTGAAATGTGGAGTTTCCAACAAGGATATAGAGAAAAGAACTGC
 AAAGGATGAAGAGGAAGACCTCCAGCATGACTCAGCTACTTGAAGAAGAAGAGCTGTCTTGCCACAG
 ACCCGGTATGTGGAGCTGTTTATTGTCGTAGACAAGGAAAGGTATGACATGATGGGAAGAAATCAGACTG
 CTGTGAGAGAAGAGATGATTCTCCTGGCAAACCTACTTGGATAGTATGTATATTATGTTAAATATTGGAAT
 TGTGCTAGTTGGACTGGAGATTTGGACCAATGAAACCTGATCAACATAGTTGGGGTGCTGGTGTGTG
 CTGGGGAACCTTCGTGCAGTGGCGGAAAAGTTTCTTATCACACGTCGGAGACATGACAGTGCACAGCTAG
 TTCTAAAGAAAGTTTTGGTGGAACTGCAGGAATGGCATTGTGGGAACAGTGTGTTCAAGGAGCCACGC
 AGGCGGGATTAATGTGTTGGACAACTCACTGTGGAGACATTTGCTTCCATTGTTGCTCATGAATGGGT
 CATAATCTTGAATGAATCAGATGATGGGAGAGATTGTTCTGTGGAGCAAAGAGCTGCATCATGAATT
 CAGGAGCATCGGTTCCAGAACTTTAGCAGTTGCAGTGCAGAGGACTTTGAGAAGTTAACTTTAAATAA
 AGGAGGAAACTGCCTTCTTAATATTCCAAGCCTGATGAAGCCTATAGTGTCCCTCCTGTGGTAATAAG
 TTGGTGGACGCTGGGGAAGAGTGTGACTGTGGTACTCCAAGGAATGTGAATTGGACCCTTGTGCGAAG
 GAAGTACCTGTAAGCTTAAATCATTTGCTGAGTGTGCATATGGTACTGTTGTAAGACTGTCGGTCTCT
 TCCAGGAGGTAATTTATGCCGAGGAAAAACAGTGAAGTGTGATGTTCCAGAGTACTGCAATGGTCTTCT
 CAGTCTGTGCAGCCAGATGTTTTTATTCAAGATGGATATCCTTGGCAGAATAACAAAGCCTATTGCTACA
 ACGGCATGTGCCAGTATTATGATGCTCAATGTCAAGTCACTTTGGCTCAAAGCCAAGGCTGCCCCCAA
 AGATTGTTTCATTGAAGTGAATTCTAAAGGTGACAGATTTGGCAATTGTGGTTTCTCTGGCAATGAATC
 AAGAAGTGTGCCACTGGGAATGCTTTGTGTGAAAAGCTTCAGTGTGAGAATGTACAAGAGATACCTGTAT
 TTGGAATTGTGCCTGCTATTATTCAAACGCTAGTCGAGGCACCAAAATGTTGGGGTGTGGATTTCCAGCT
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 AACTTCCAGTGTGTAGATGCTTCTGTTCTGAATTATGACTGTGATGTTTCAAAAAAGTGTGATGGACATG
 GGGTATGTAATAGCAATAAGAAATGTCAGTGTGAAAATGGCTGGGCTCCCCAAATTTGTGAGACTAAAGG
 ATACGGAGGAAGTGTGGACAGTGGACCTACATAACAATGAAATGAATACTGCATTGAGGGACGGACTTCTG
 GTCTTCTTCTTCTAATTTGTTCCCTTATTGTCTGTGCTATTTTTATCTTCAAGAGGGATCAACTGT
 GGAGAAGCTACTCAGAAAGAAGAGATCACAACATATGAGTCAAGTGGCAAAAATCAAGCAAACCTTC
 TAGACAGCCGGGAGTGTCTCCTCGACATGTTTCTCCAGTGCACCTCCAGAGAAGTTTCTATATATGCA
 AACAGATTTGCAGTACCAACCTATGCAGCCAAGCAACCTCAGCAGTTCATCAAGGCCACCTCCACCAC
 AACCGAAAGTATCATCTCAGGAAACTTAATCCTGCCGTCCTGCTCCTGCACCTCCTTATATAGTTC
 CCTCACT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC222453 representing NM_003816
Red=Cloning site Green=Tags(s)

MGSGARFPSGTLRVRWLLLLGLVGPVLGAARPGFQQTSHLSSYEIITPWRLTRERREAPRPYSKQVSYVI
QAEKGKEHIIHLERNKDLLPEDFVVYTYNKEGLITDHPNIQNHCHYRGYVEGVHNSIALSDCFGLRGLL
HLENASYGIEPLQNSSHFEHIIYRMDDVYKEPLKCGVSNKDIEKETAKDEEEEPPSMTQLRRRRRAVLPQ
TRYVELFIVVDKERYDMMGRNQTAVREEMILLANYLDSMYIMLNIRIVLVGLEIWTNGNLINIVGGAGDV
LGNFVQWREKFLITRRRHDSAQLVLKKGFGGTAGMAFVGTVCSSHAGGINVFGQITVETFASIVAHEL
HNLGMNHDDGRDCSCGAKSCIMNSGASGRNFSSCSAEDFEKLTNLKGGNCLLNIPKPDEAYSAPSCGNK
LV DAGEECDGTPKECELDPCCEGSTCKLKSFAECAYGDCCKDCRFLPGGTLCRGKTSECDVPEYCNSS
QFCQPDVFIQNGYPCQNNKAYCYNGMCQYYDAQCVIFGSKAKAAPKDCFIEVNSKGDRCGFCGSGNEY
KKCATGNALCGKLCENVQEIPVFGIVPAIIQTPSRGTKCWGVDFQLGSDVPDPGMVNEGKCGAGKICR
NFQCVDAVNLNYDCDVQKKCHGHGVCNSNKNCHCENGWAPPNCETKGYGGSVDSGPTYNEMNTALRDGLL
VFFFLIVPLIVCAIFIFIKRDQLWRSYFRKKRSQTYESDGKNQANPSRQPGSVPRHVSPVTPPREVPIYA
NRFVAVPTAAKQPQQFSPRPPPPQPKVSSQGNLIPARPAPAPPLYSSLT

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2901_g03.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:


ACCN: NM_003816

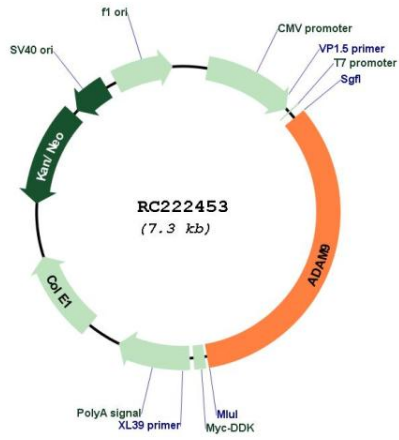
ORF Size: 2457 bp

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](#)

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| 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: | <ol style="list-style-type: none">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_003816.3 |
| 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 |
| MW: | 90.56 kDa |
| 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] |

Product images:



Circular map for RC222453