

Product datasheet for MR204954

Amd1 (NM_009665) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Amd1 (NM_009665) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Amd1
Synonyms:	AdoMetDC; adoMetDC1; Amd-1; SAMDC; SAMDC 1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204954 representing NM_009665 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGCTGCACATTTTTTCGAAGGGACGGAGAACTGCTGGAGGTCTGGTTTTCCAGACAGCAGTCCG
ACGCAAGCCAGGGATCTGGGATCTTCGTACCATCCCAAGATCTGAATGGGATGTCCTTTGAAGGATGT
GCAGTGTCAATCATAAGTGTGACAAAGACTGACAAGCAGGAAGCTTATGTAAGTCAAGTGTGAGAGT
TTTGTCTCCAAGAGACGTTTCATTTTGAAGACATGTGGTACCACCCTTACTGAAAGCACTGGTCCCC
TGTTGAAGCTTGCTAGGGATTACAGTGGTTTACTCAATCAAAGCTTCTTTTATCTCGTAAGAATTT
CATGAAGCCTTCTACCAAGGGTACCCACACCGGAATTTCCAGGAAGAAATCGAGTTCCTAATGCAATT
TTCCCAAATGGAGCAGCATATTGTATGGGACGCATGAATTCGACTGCTGGTACTTGTATACTTTGGATT
TCCCAGAGAGCCGAGTAATCAGTCAGCCAGATCAAACACTGGAATTTCTGATGAGTGAGCTTGACCCAGC
AGTTATGGACCAGTTCTACATGAAAGATGGTGTACTGCAAAGGATGTCCTCGTGAGAGTGGAAATTCGT
GACCTGATACCAGTTCTGTCAATTGATGCCACTGTTCAATCCTTGTGGCTACTCGATGAATGGAATGA
AATCGGATGGAACATATTGGACTATTCACATCACTCCAGAACCAGAATTTCTTATGTTAGCTTTGAAAC
AAACCTAAGTCAGACCTCCTATGACGACCTGATCAGGAAAGTTGTGGAAGTCTTCAAGCCAGGAAATTT
GTGACCACCTTGTGTTAATCAGAGTTCTAAATGTCGCACAGTCTTTCTCGCCCCAGAAAGATTGACG
GCTTTAAACGTCTTGATTGCCAGAGTGCTATGTTCAACGATTACAATTTGTTTTTACCAGTTTTGCTAA
GAAACAGCAACAACAGCAGAGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204954 representing NM_009665
Red=Cloning site Green=Tags(s)

```
MEAAHFFEGTEKLLLEVWFSRQQSDASQGSGLRTIPRSEWDVLLKDVQCSII SVTKTDKQEAYVLSSESM
FVSKRRFILKTCGTTLLKALVPLLKLARDYSGFDSIQSFFYSRKNFMKPSHQGYPHRNFQEEIEFLNAI
FPNGAAYCMGRMNSDCWYLYTLDFPESRVISQPDQTL EILMSELDPAVMDQFYMKDGVTA KDV TRESGIR
DLIPGSVIDATL FNPCGYSMNGMKSDGT YWTIHI TPEPEF SYVSFETNL SQT SYDDLIRKVVVEVFKPGKF
VTTLFVNQSSKRTVLSSPQKIDGFKRLDCQSAMFNDYNFVFTSF AKKQQQQQS
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9057_c01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_009665

ORF Size: 1002 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: [NM_009665.5](#), [NP_033795.1](#)

RefSeq Size: 3206 bp

RefSeq ORF: 1005 bp

Locus ID: 11702

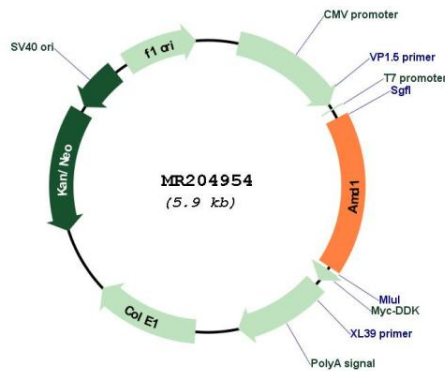
UniProt ID: [P0DMN7](#)

Cytogenetics: 10 21.85 cM

MW: 38.3 kDa

Gene Summary: Essential for biosynthesis of the polyamines spermidine and spermine. Promotes maintenance and self-renewal of embryonic stem cells, by maintaining spermine levels. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204954