

Product datasheet for **RG221424**

AMD1 (NM_001634) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: AMD1 (NM_001634) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: AMD1
Synonyms: ADOMETDC; AMD; SAMDC
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG221424 representing NM_001634
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGCTGCACATTTTTTGAAGGGACCGAGAAGCTGCTGGAGGTTTGGTTCTCCCGGCAGCAGCCCG
ACGCAAACCAAGGATCTGGGGATCTTCGCACTATCCCAAGATCTGAGTGGGACATACTTTTGAAGGATGT
GCAATGTTCAATCATAAGTGTGACAAAACTGACAAGCAGGAAGCTTATGTACTCAGTGAGAGTAGCATG
TTTGTCTCCAAGAGACGTTTCATTTTGAAGACATGTGGTACCACCCTCTTGCTGAAAGCACTGGTCCCG
TGTTGAAGCTTGCTAGGGATTACAGTGGGTTTACTCAATTCAAAGCTTCTTTTATCTCGTAAGAATTT
CATGAAGCCTTCTCACCAGGGTACCCACACCGGAATTTCCAGGAAGAAATAGAGTTTCTTAATGCAATT
TTCCCAAATGGAGCAGCATATTGTATGGGACGTATGAATTCGACTGTTGGTACTTATATACTCTGGATT
TCCCAGAGAGTCGGGTAATCAGTCAGCCAGATCAAACCTTGAAATTTCTGATGAGTGAGCTTGACCCAGC
AGTTATGGACCAGTTCTACATGAAAGATGGTGTACTGCAAAGGATGTCCTCGTGAGAGTGGAAATTCGT
GACCTGATACCAGTTCTGTCATTGATGCCACAATGTTCAATCCTTGTTGGTATTTCGATGAATGGAATGA
AATCGGATGGAATTTATTGGACTATTCACATCACTCCAGAACCAGAATTTCTTATGTTAGCTTTGAAAC
AACTTAAGTCAGACCTCCTATGATGACCTGATCAGGAAAGTTGTAGAAGTCTTCAAGCCAGGAAATTT
GTGACCACCTTGTGTTAATCAGAGTTCTAAATGTCGCACAGTCTTGCTTCGCCCCAGAGATTGAAG
GTTTTAAGCGTCTTGATTGCCAGAGTCTATGTTCAATGATTACAATTTTGTGTTTTACCAGTTTTGTCTAA
GAAGCAGCAACAACAGCAGAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG221424 representing NM_001634
Red=Cloning site Green=Tags(s)

MEAAHFFEGTEKLLLEVWFSRQQPDANQGSGLRITPRSEWDILLKDVQCSII SVTKTDKQEAYVLSSESM
 FVSKRRF ILKTCGTTLLKALVPLLKLARDYSGFDSIQSFFYSRKNFMKPSHQGYPHRNFQEEIEFLNAI
 FPNGAAYCMGRMNSDCWLYLTDFPESRVISQPDQTL EILMSELDPAVMDQFYMKDGVTA KDVTRESGIR
 DLIPGSVIDATMFNPCGYSMNGMKSDGT YWTIHIITPEPEFSYVSFETNLSQTSYDDLIRKVVVEVFKPGKF
 VTTLFVNQSSKCRTVL ASPQKIEGFKRLDCQSAMFNDYNFVFTSF AKKQQQQQS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001634

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_001634.5](#)

RefSeq Size: 3421 bp

RefSeq ORF: 1005 bp

Locus ID: 262

UniProt ID: [P17707](#)

Cytogenetics: 6q21

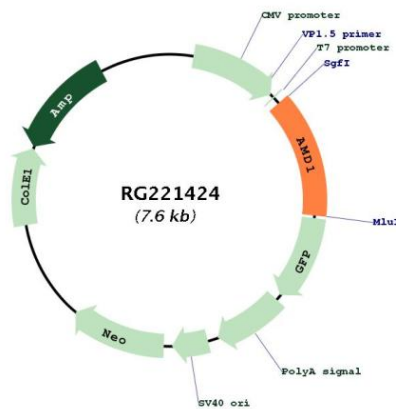
Domains: SAM_decarbox

Protein Families: Druggable Genome

Protein Pathways: Arginine and proline metabolism, Cysteine and methionine metabolism, Metabolic pathways

Gene Summary: This gene encodes an important intermediate enzyme in polyamine biosynthesis. The polyamines spermine, spermidine, and putrescine are low-molecular-weight aliphatic amines essential for cellular proliferation and tumor promotion. Multiple alternatively spliced transcript variants have been identified. Pseudogenes of this gene are found on chromosomes 5, 6, 10, X and Y. [provided by RefSeq, Dec 2013]

Product images:



Circular map for RG221424