

Product datasheet for **RG226719**

MYADML2 (NM_001145113) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	MYADML2
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG226719 representing NM_001145113
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCAGCACCATGGAGCCCCCTGGGGGTGCGTACCTGCACCTGGGCGCCGTGACATCCCCTGTGGGCA
CAGCCCGCTGCTGCAGCTGGCCTTTGGCTGCACTACCTTCAGCCTGGTGGCCACCGGGTGGCTTTGC
GGGCGTCCAGGGCACCTTCTGCATGGCCGCCTGGGGCTTCTGCTTCGCCGTCTCTGCGCTGGTGGTGGCC
TGTGAGTTCACACGGCTCCACGGCTGCCTGCGGCTCTCCTGGGGCAACTTCACCGCCGCCTTCGCCATGC
TGGCCACCCTGCTATGCGCGACGGCTGCGGTCTGTATCCGCTGTACTTTGCCCGCGGGAGTGTCCCC
CGAGCCCGCCGGCTGTGCTGCCAGGGAATTCGCGCTGGCAGCCAGTGTCTTCGCCGGGCTCCTCTTCCTG
GCCTACGCTGTGGAGGTGGCCCTGACGCGGGCCCGGCCCGGCCAGGTGAGCAGCTATATGGCCACGGTGT
CGGGGCTCCTCAAGATCGTCCAGGCTTCGTGGCTGCATCATCTTCGGGGCGCTGGTCCATGACAGCCG
CTACGGGCGCTACGTGGCCACCCAGTGGTGCCTGGCCGTCTACAGCCTGTGCTTCCTGGCCACAGTGGCC
GTGGTGGCCCTGAGTGTGATGGGCCACACAGGGGCTGGGCTGCCCTTTGACCGGCTGGTGGTGGTGT
ACACCTTCCTGGCTGTGCTCCTGTACCTCAGCGCCGCCGTGATCTGGCCAGTCTTCTGTTTCGATCCAA
GTACGGTGAGCCCAACGGCCCCCAACTGTGCTCGGGGCGAGCTGTCCCTGGGACAGCCAGCTGGTGGT
GCCATCTTCACCTACGTCAACCTGCTCCTGTACGTCGTTGACCTCGCCTACTCCAGAGGATTGCTTCG
TGCCCGCCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence:

>RG226719 representing NM_001145113

Red=Cloning site Green=Tags(s)

MGSTMEPPGGAYLHLGAVTSPVGTARVLQLAFGCTTFSLVHRGGFAGVQGTFCMAAWGFCFAVSALVVA
CEFTRLHGCLRLSWGNTAAFAAMLATLLCATAAVLYPLYFARRECSPEPAGCAARDFRLAASVFAGLLFL
AYAVEVALTRARPGQVSSMATVSGLLKIVQAFVACIIFGALVHDSRYGRYVATQWCVAVYSLCFLATVA
VVALSVMGHTGGLGCPFDRLVVVYTF LAVLLYLSAAVIWPVFCFDPKYGEKRPNPCARGSCPWDSQLV
AIFTYVNL LLYVVDLAYSQIRIRFVPSL

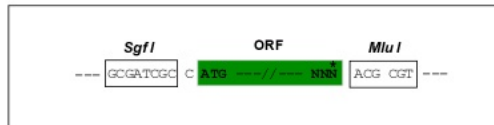
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGGCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGCTAGTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC ---

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - -

--- GAA GAA AGA GTT TAA ACGGCCGCGCGGAGCT

- - E E R V Stop

ACCN:

NM_001145113

ORF Size:

921 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.

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

RefSeq: NM_001145113.3

RefSeq Size: 2469 bp

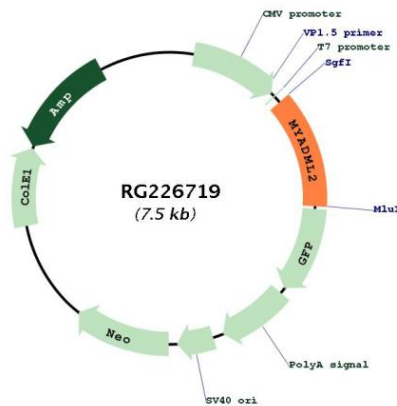
RefSeq ORF: 924 bp

Locus ID: 255275

UniProt ID: A6NDP7

Cytogenetics: 17q25.3

Product images:



Circular map for RG226719