

## Product datasheet for MR204269

### Afmid (NM\_027827) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Afmid (NM_027827) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Afmid
Synonyms:	9030621K19Rik; Ammd; FKF; formylase; Kf; KFA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204269 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGTTTCCTTCCCTTTCTGCGGGCCAGAATCCCTGGAGGAACCTGTCTTCGGAGGAGCTGGAGAAGC  
AACTACTCACCCAGCAGATGGGTATCCACACGAAACCAGAGGAAGTTGTTGGAACTTCGTGCAGATAGG  
AAGCCAGGCCACCCAGAAGGCCCGGCCACCAGGAGGAACCAGCTGGATGTCCCTATGGAGATGGCGAA  
GGGAGAAACTGGACATCTACTTCCCGATGAGGATCCAAGGCTTCCCTCTGTTCTTCTGTCATG  
GAGGATACTGGCAGAGTGAAGTAAAGATGACTCGGCCTTCATGGTAAACCCACTGACTGCACAGGGAAT  
CGTGGTGGTATAGTGGCTTATGACATTGACCCAAAGGCACACTGGACCAGATGGTGGACCAGGTGACC  
CGCAGTGTGCTGTTTCTACAGAGGCGCTATCCAAGCAATGAGGGAATCTACCTCTGCGGACACTCTGCGG  
GAGCTCACCTGGCTGCTATGGTGTCTCTGGCCCGCTGGACCAAGCATGGCGTCACACCCAACTCCAAGG  
CTTTCTCTGGTGGTGGATCTACGACCTGGAGCCCCTCATAGCCACCTCCAGAAATGACCCTCTGCGC  
ATGACCCTGGAAGATGCTCAGAGAAACAGTCCACAGCGCACTTGGATGTGGTCCAGCAGACGCTGTGG  
CTCCAGCCTGCCCTGTGCTGGTGTGTGGGTGAGTACTCCAGAGTCCACCGGCAGTCCAAGGA  
GTTCTACGAGACTTCTCCGCTGGGATGGAAGGCCTTTCCAGCAGCTGCGTGGTGTGGATCACTTT  
GACATCATAGAGAATCTGACCCGGGAGGATGACGTGCTCACCCAGATCATTTTAAAACAGTCTTCCAGA  
AGCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204269 protein sequence  
Red=Cloning site Green=Tags(s)

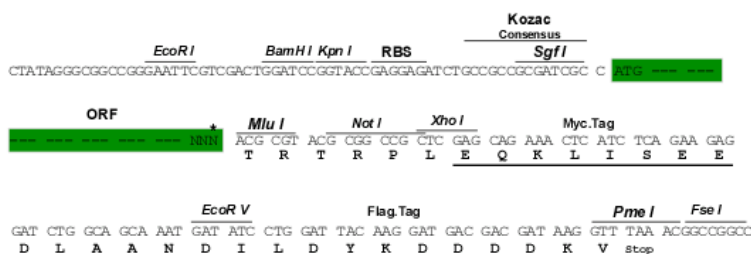
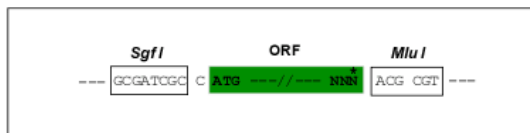
MAFPSLSAGQNPWRNLSSEELEKQYSPSRWVIHTKPEEVVGNFVQIGSQATQKARATRRNQLDVPYGDGE  
 GEKLDIYFPDEDSKAFPLFLFLHGGYWQSGSKDDSAFMVNPLTAQGI VVVIVAYDIAPKGTLDQMVDQVT  
 RSVVFLQRRYPSNEGIYLCGHSAGAHLAAMVLLARWTKHGVTPLNQGFLLVSGIYDLEPLIATSQNDPLR  
 MTLEDAQRNSPQRHLDDVPAQPVPACPVLLVVGQHDSPEFHRQSKEFYETLLRVGWKASFQQLRGVDHF  
 DIIENLTREDDVLTQIILKTVFQKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_027827

**ORF Size:** 918 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\\_027827.3](#), [NP\\_082103.1](#)

**RefSeq Size:** 2332 bp

**RefSeq ORF:** 918 bp

**Locus ID:** 71562

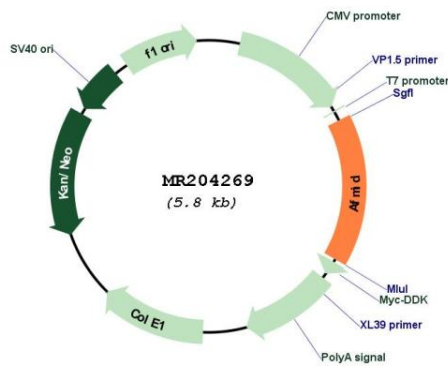
**UniProt ID:** [Q8K4H1](#)

**Cytogenetics:** 11 E2

**MW:** 34.2 kDa

**Gene Summary:** Catalyzes the hydrolysis of N-formyl-L-kynurenine to L-kynurenine, the second step in the kynurenine pathway of tryptophan degradation. Kynurenine may be further oxidized to nicotinic acid, NAD(H) and NADP(H). Required for elimination of toxic metabolites. [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR204269