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Product datasheet for RC217126

AFMID (NM_001010982) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AFMID (NM_001010982) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AFMID
Synonyms:	FKF; KF; KFA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC217126 representing NM_001010982
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATGGATGTGTCTGGTGTGGGTTTCCCAAGCAAGGTTCCTTGGAAGAAGATGTCTGCAGAGGAGCTGG
AGAATCAGTACTGTCCCAGCCGATGGGTTGTCCGACTGGGAGCAGAGGAAGCCTTGAGGACCTACTCACA
GATAGGAATTGAAGCCACCACAAGGGCCCGGGCCACCAGGAAGAGCCTGCTGCATGTCCCCTATGGAGAC
GGCGAAGGGGAGAAAGTGGACATTTACTTCCCCGACGAGTCGTCTGAAGCCTTGCCTTTCTTCCTGTTCT
TTCACGGAGGATACTGGCAGAGCGGAAGTAAGGATGAGTCTGCCTTCATGGTCCACCCGCTGACGGCACA
GGGAGTGGCCGTGGTAATAGTGGCTTACGGCATCGCCCCCAAAGGCACCCTGGACCACATGGTAGACCAG
GTGACCCGCAGCGTTGCGTTTGTCCAGAAGCGGTATCCAAGCAACAAGGGAATTTACCTGTGTGGACACT
CAGCCGGGGCCCACCTGGCTGCCATGATGCTCCTGGCCGACTGGACCAAGCATGGGGTCACGCCCAACCT
CAGAGGCTTTTTCCTGGTGAGTGGGGTCTTTGACCTGGAGCCCATCGTGTATACTTCACAGAACGTTGCT
CTCCAGCTGACCCTGGAGGACGCTCAGAGGAATAGCCCCCAGCTGAAGGTGGCCCAGGCACAGCCGGTGG
ACCCCACCTGCCGTGTGCTGGTGGTCGTGGGCCAGTTCGACTCCCCCGAATTCCACCGACAGTCCTGGGA
GTTTTACCAGACCCTGTGTCAAGGAGAGTGGAAAGCCTCATTTGAAGAGCTCCACGATGTGGACCACTTT
GAAATTGTTGAGAATCTGACCCAGAAGGACAACGTGCTCACCCAGATTATCTTGAAAACAATCTTCCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>RC217126 representing NM_001010982
Red=Cloning site Green=Tags(s)

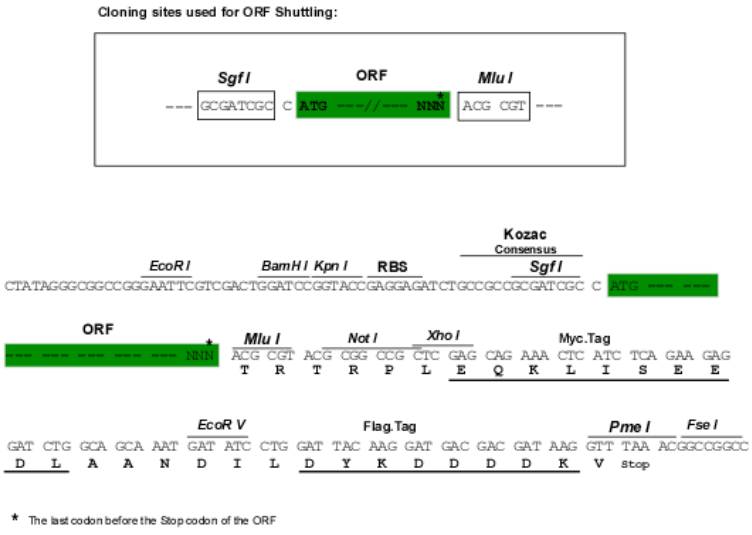
MMDVSGVGFPSKVPWKKMSAEELENQYCPSRWVVRLGAEEALRTYSQIGIEATTRARATRKSLLHVPYGD
GEGEKVDIYFPDESSEALPFFLFFHGGYWQSGSKDESAFMVHPLTAQGVAVVIVAYGIAPKGTLDHMVDQ
VTRSVAFVQKRYPSNKGIYLCGHSAGAHLAAMMLLADWTKHGVTPNLRGFFLVSGVFDLEPIVYTSQNVA
LQLTLEDAQRNSPQLKVAQAQPVDPTCRVLVVVGQFDSPEFHRQSWEFYQTLCQGEWKASFEELHDVDHF
EIVENLTQKDNVLTQIILKTIFQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8017_g02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001010982

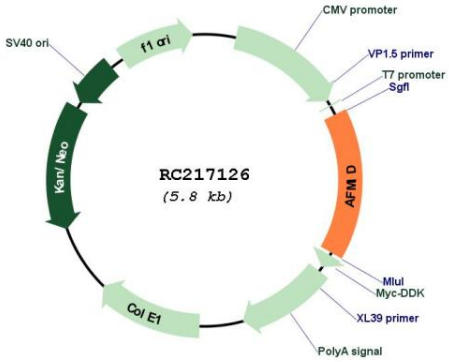
ORF Size: 1268 bp

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.

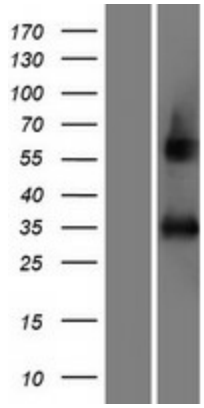
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

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_001010982.4
RefSeq Size:	1820 bp
RefSeq ORF:	912 bp
Locus ID:	125061
UniProt ID:	Q63HM1
Cytogenetics:	17q25.3
Protein Pathways:	Glyoxylate and dicarboxylate metabolism, Metabolic pathways, Tryptophan metabolism
MW:	33.8 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]

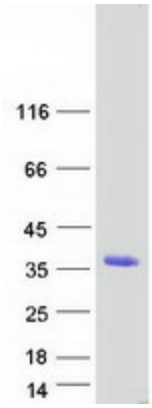
Product images:



Circular map for RC217126



Western blot validation of overexpression lysate (Cat# [LY423254]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217126 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified AFMID protein (Cat# [TP317126]). The protein was produced from HEK293T cells transfected with AFMID cDNA clone (Cat# RC217126) using MegaTran 2.0 (Cat# [TT210002]).