

## Product datasheet for **RG217126**

### AFMID (NM\_001010982) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AFMID (NM_001010982) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AFMID
Synonyms:	FKF; KF; KFA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG217126 representing NM_001010982 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATGGATGTGTCTGGTGTGGGTTTCCCAAGCAAGGTTCTTGGAGAAGATGTCTGCAGAGGAGCTGG  
AGAATCAGTACTGTCCCAGCCGATGGGTTGTCCGACTGGGAGCAGAGGAAGCCTTGAGGACCTACTCACA  
GATAGGAATTGAAGCCACCACAAGGGCCCGGCCACCAGGAAGAGCCTGCTGCATGTCCCCTATGGAGAC  
GGCGAAGGGGAGAAAGTGGACATTTACTTCCCCGACGAGTCGTCTGAAGCCTTGCCTTTCTTCTGTCT  
TTCACGGAGGATACTGGCAGAGCGGAAGTAAGGATGAGTCTGCCTTCATGGTCCACCCGCTGACGGCACA  
GGGAGTGGCCGTGTAATAGTGGCTTACGGCATCGCCCCAAAGGCACCTGGACCACATGGTAGACCAG  
GTGACCCGCGAGCGTTGCGTTTGTCCAGAAGCGGTATCCAAGCAACAAGGGAATTTACCTGTGTGGACACT  
CAGCCGGGGCCACCTGGCTGCCATGATGCTCCTGGCCGACTGGACCAAGCATGGGGTCACGCCAACCT  
CAGAGGCTTTTTCTGGTGTGAGTGGGCTTTGACCTGGAGCCCATCGTGTATACTTACAGAACGTTGCT  
CTCCAGCTGACCTGGAGGACGCTCAGAGGAATAACCCCCAGCTGAAGGTGGCCAGGCACAGCCGGTGG  
ACCCACCTGCCGTGTGCTGGTGGTCTGGGCCAGTTCGACTCCCCGAATTCACCCGACAGTCTGGGA  
GTTTTACCAGTACTCCAGTGCAGACCCTGTGTCAAGGAGAGTGAAAGCCTCATTGAGAGCTCCAC  
GATGTGGACCACTTTGAAATTGTTGAGAATCTGACCCAGAAGGACAACGTGCTCACCCAGATTATCTTGA  
AAACAATCTTCCAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG217126 representing NM\_001010982  
 Red=Cloning site Green=Tags(s)

MMDVSGVGFPSKVPWKKMSAELEENQYCPSRWVRLGAEALRTYSQIGIEATTRARATRKSLLHVPYGD  
 GEKGVDIYFPDESSEALPFFLFFHGGYWQSGSKDESAFMVHPLTAQGVAVVIVAYGIAPKGLDHMVDQ  
 VTRSVAFVQKRYPSNKGIYLCGHSAGAHLAAMMLLADWTKHGVTPLNRGFFLVSGVFDLEPIVYTSQNV  
 A LQLTLEDAQRNNPQLKVAQAQPVDPVTCRVLVVVGQFDSPEFHRQSWEFYQVLPVQTLCCQGEWKASFEELH  
 DVDHFEIVENLTQKDNVLTQIILKTIFQ

TRTRPLE - GFP Tag - V

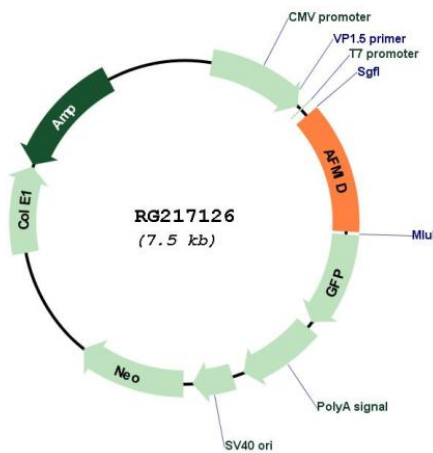
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_001010982

**ORF Size:** 924 bp

<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001010982.2</a>
<b>RefSeq Size:</b>	1820 bp
<b>RefSeq ORF:</b>	912 bp
<b>Locus ID:</b>	125061
<b>UniProt ID:</b>	<a href="#">Q63HM1</a>
<b>Cytogenetics:</b>	17q25.3
<b>Protein Pathways:</b>	Glyoxylate and dicarboxylate metabolism, Metabolic pathways, Tryptophan metabolism
<b>Gene Summary:</b>	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]