

## Product datasheet for **RC204934**

### AMID (AIFM2) (NM\_032797) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AMID (AIFM2) (NM_032797) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AIFM2
Synonyms:	AMID; FSP1; PRG3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC204934 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGGGTCCCAGGTCTCGGTGGAATCGGGAGCTCTGCACGTGGTGATTGTGGTGGGGCTTTGGCGGA  
TCGCAGCAGCCAGCCAGCTGCAGGCCCTGAACGTCCTCATGCTGGTGGACATGAAGGACTCCTTCCA  
CCACAATGTGGCTGCTCTCCGAGCCTCCGTGGAGACAGGGTTCGCCAAAAGACATTCATTTCTTACTCG  
GTGACTTTCAAGGACAACCTCCGGCAGGGGCTAGTAGTGGGATAGACCTGAAGAACCAGATGGTGTCTGC  
TGCAGGGTGGCGAGGCCCTGCCCTTCTCTCATCTTATCCTGGCCACGGGACACTGGGCCCTTCCCGGG  
CAAGTTTAATGAGGTTTCCAGCCAGCAGGCCGCTATCCAGGCCTATGAGGACATGGTGAGGCAGGTCAG  
CGCTCACGGTTCATCGTGGTGGTGGGAGGAGGCTCGGCTGGAGTGGAGATGGCAGCAGAGATTAACACAG  
AATATCCTGAGAAAGAGGTCACCTCTCATTCACTCCAAGTGGCCCTGGCTGACAAGGAGCTCCTGCCCTC  
CGTCCGGCAGGAAGTGAAGGAGATCCTCCTCCGGAAGGGCGTGCAGCTGCTGCTGAGTGAGCGGGTGAGC  
AATCTGGAGGAGCTGCCTCTCAATGAGTATCGAGAGTACATCAAAGTGCAGACGGACAAAGGCACAGAGG  
TGGCCACCAACCTGGTGATTCTCTGCACCGGCATCAAGATCAACAGCTCCGCCTACCGCAAAGCGTTTGA  
GAGCAGACTAGCCAGCAGTGGTCTCTGAGAGTGAACGAGCACCTCCAGGTGGAGGGCCACAGCAACGTC  
TACGCCATTGGTACTGTGCCGACGTGAGGACGCCCAAGATGGCCTATCTTGCCGGCCTCCACGCCAAC  
TCGCCGTGGCCAAACATCGTCAACTCTGTGAAGCAGCGGCCTCTCCAGGCCTACAAGCCGGGTGCACTGAC  
GTTCTCTGTCCATGGGGAGAAATGATGGTGTGGGCCAAATCAGTGGCTTCTATGTGGGCCGGCTCATG  
GTTCCGGCTGACCAAGAGCCGGGACCTGTTCTCTACGAGCTGGAAAACCATGAGGCAGTCTCCACCT

**ACGGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC204934 protein sequence  
Red=Cloning site Green=Tags(s)

MGSQVSVESGALHVIVGGGFGGIAAASQLQALNVPFMLVDMKDSFHHNVAALRASVETGFAKKTFISYS  
 VTFKDNFRQGLVVGIDLKNQMVLLQGGEALPFSLILATGSTGPFPGKFNEVSSQAAIQAYEDMVRQVQ  
 RSRFIVVVGGSAGVEMAAEIKTEYPEKEVTLIHSQVALADKELLPSVRQEVKEILLRKGVQLLLSERVS  
 NLEELPLNEYREYIKVQTDKGTVEVATNLVILCTGIKINSSAYRKAFESRLASSGALRVNEHLQVEGHSNV  
 YAIGDCADV RTPKMAYLAGLHANIAVANI VNSVKQRPLQAYKPGALTFLLSMGRNDG VGVQISGFYVGRML  
 VRLTKSRDLFVSTSWKTRMQSP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

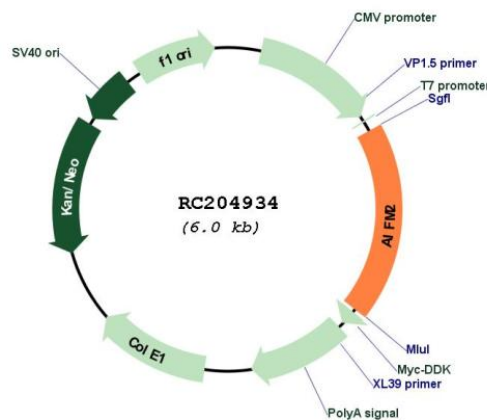
**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6065\\_e04.zip](https://cdn.origene.com/chromatograms/mk6065_e04.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

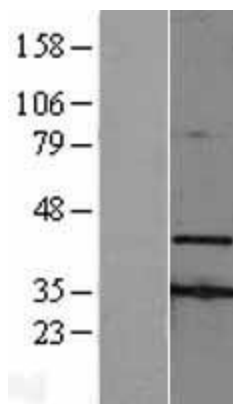


**Plasmid Map:**

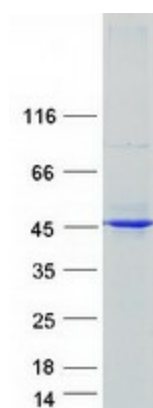


<b>ACCN:</b>	NM_032797
<b>ORF Size:</b>	1119 bp
<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), 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>
<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_032797.6</a>
<b>RefSeq Size:</b>	3253 bp
<b>RefSeq ORF:</b>	1122 bp
<b>Locus ID:</b>	84883
<b>UniProt ID:</b>	<a href="#">Q9BRQ8</a>
<b>Cytogenetics:</b>	10q22.1
<b>Domains:</b>	pyr_redox
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>MW:</b>	40.5 kDa
<b>Gene Summary:</b>	This gene encodes a flavoprotein oxidoreductase that binds single stranded DNA and is thought to contribute to apoptosis in the presence of bacterial and viral DNA. The expression of this gene is also found to be induced by tumor suppressor protein p53 in colon cancer cells. [provided by RefSeq, Nov 2010]

## Product images:



Western blot validation of overexpression lysate (Cat# [LY403212]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204934 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified AIFM2 protein (Cat# [TP304934]). The protein was produced from HEK293T cells transfected with AIFM2 cDNA clone (Cat# RC204934) using MegaTran 2.0 (Cat# [TT210002]).