

#### OriGene Technologies, Inc.

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# Product datasheet for RC226909

#### EMAP II (AIMP1) (NM\_001142415) Human Tagged ORF Clone

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	EMAP II (AIMP1) (NM_001142415) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EMAP II
Synonyms:	EMAP2; EMAPII; HLD3; p43; SCYE1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>&gt;RC226909 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C

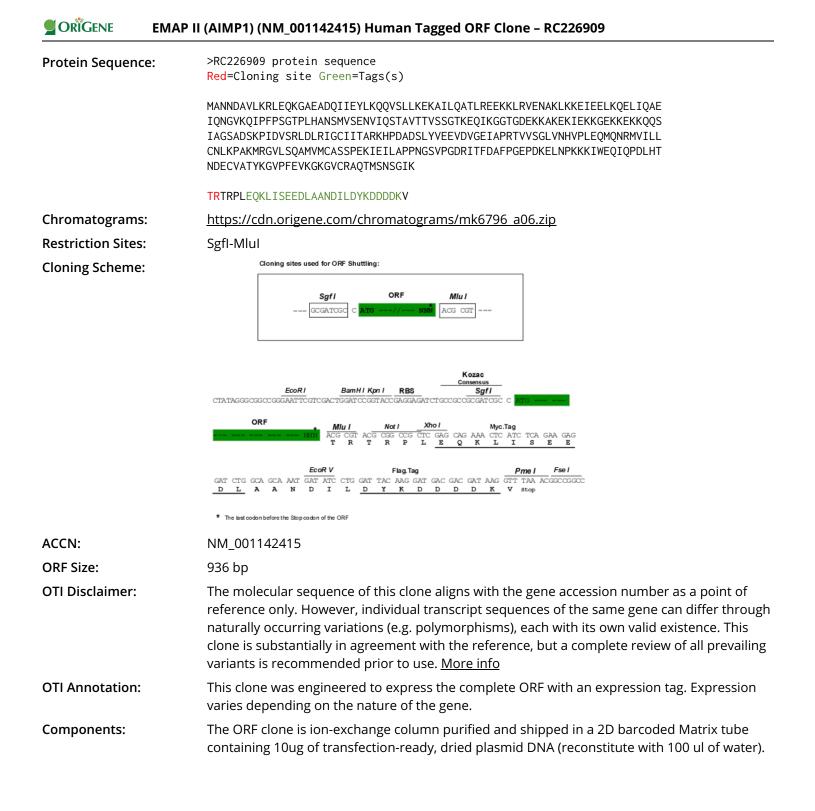
ATGGCAAATAATGATGCTGTTCTGAAGAGACTGGAGCAGAAGGGTGCAGAGGCAGATCAAATCATTGAAT ATCTTAAGCAGCAAGTTTCTCTACTTAAGGAGAAAGCAATTTTGCAGGCAACTTTGAGGGAAGAAGAA ACTTCGAGTTGAAAATGCTAAACTGAAGAAAGAAATTGAAGAACTGAAACAAGAGCTAATTCAGGCAGAA ATTCAAAATGGAGTGAAGCAAATACCATTTCCATCTGGTACTCCACTGCACGCTAATTCTATGGTTTCTG AAAATGTGATACAGTCTACAGCAGTAACAACCGTATCTTCTGGTACCCAAAGAACAGATAAAAGGAGGAAC AGGAGACGAAAAGAAAGCGAAAGAAAATTGAAAAGAAAGGAGAGAAGAAGAACAGAAAAAACAGCAATCA ATAGCTGGAAAGTGCCGACTCTAAGCCAATAGATGTTTCCCGTCTGGATCTTCGAATTGGTTGCATCATAA CTGCTAGAAAACACCCTGATGCAGATTCTTTGTATGTGGAAGAAGAAGAAGAAGAAAAACAGCCAATCA GACAGTTGTCAGTGGCCTGGTGAATCATGTTCCTCTTGAACAGATGCCGAGAAATAGCCCCAAG GACAGTTGTCAGTGGCCTGGTGAATCATGTTCCTCTTGAACAGATGCAAAATCGGATGGTGATTTTACTT TGTAACCTGAAACCTGCAAAGATGAGGGGAGTATTATCTCAAGCAAATGGTCATGTGTGCTAGTTCACCAG AGAAAATTGAAATCTTGGCTCCTCCAAATGGGTCTGTTCCTGGAGACAGAATTACTTTTGATGCTTTCCC AGGAGAGCCTGACAAAGGAGCTGAATCCTAAGAAGAAGAAGATTGGGAGCAGATCCAGCCTGATCTTCACACT AATGATGAGGCACAAGGAGCTGAATCCTAAGAAGAAGATTTGGGAGCAGATCCAGCCTGATCTTCACACT AATGATGAGTGTGGCTACATACAAAGGAGGTTCCCTTTGAGGGAGAAAGGGAAGGGAGTATGTAGGGCTC AAACCATGAGCAACAGTGGAATCAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA



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Reconstitution Method:	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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>
RefSeq:	<u>NM 001142415.1, NP 001135887.1</u>
RefSeq Size:	2537 bp
RefSeq ORF:	939 bp
Locus ID:	9255
UniProt ID:	<u>Q12904</u>
Cytogenetics:	4q24
Protein Families:	Druggable Genome
MW:	34.4 kDa
Gene Summary:	The protein encoded by this gene is a cytokine that is specifically induced by apoptosis, and it is involved in the control of angiogenesis, inflammation, and wound healing. The release of this cytokine renders the tumor-associated vasculature sensitive to tumor necrosis factor. The precursor protein is identical to the p43 subunit, which is associated with the multi-tRNA synthetase complex, and it modulates aminoacylation activity of tRNA synthetase in normal cells. This protein is also involved in the stimulation of inflammatory responses after proteolytic cleavage in tumor cells. Multiple transcript variants encoding different isoforms

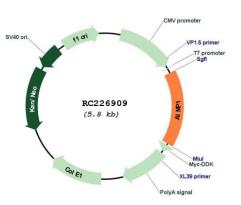
have been found for this gene. A pseudogene has been identified on chromosome 20.

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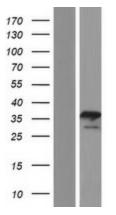
[provided by RefSeq, Dec 2008]



### **Product images:**



Circular map for RC226909



Western blot validation of overexpression lysate (Cat# [LY428077]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC226909 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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