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Product datasheet for SC324924

EMAP II (AIMP1) (NM_001142415) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EMAP II (AIMP1) (NM_001142415) Human Untagged Clone
Tag:	Tag Free
Symbol:	EMAP II
Synonyms:	EMAP2; EMAPII; HLD3; p43; SCYE1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC324924 representing NM_001142415. Blue=Insert sequence Red=Cloning site Green=Tag(s) GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC ATGGCAAATAATGATGCTGTTCTGAAGAGACTGGAGCAGAAGGGTGCAGAGGCAGATCAAATCATTGAA TATCTTAAGCAGCAAGTTTCTCTACTTAAGGAGAAAGCAATTTTGCAGGCAACTTTGAGGGAAGAGAAG AAACTTCGAGTTGAAAATGCTAAACTGAAGAAAGAAATTGAAGAACTGAAACAAGAGCTAATTCAGGCA GAAATTCAAAATGGAGTGAAGCAAATACCATTTCCATCTGGTACTCCACTGCACGCTAATTCTATGGTT TCTGAAAATGTGATACAGTCTACAGCAGTAACAACCGTATCTTCTGGTACCAAAGAACAGATAAAAGGA GGAACAGGAGACGAAAAGAAAGCGAAAGAGAAAATTGAAAAGAAAGGAGAGAAGAAGGAGAAAAAACAG CAATCAATAGCTGGAAGTGCCGACTCTAAGCCAATAGATGTTTCCCGTCTGGATCTTCGAATTGGTTGC ATCATAACTGCTAGAAAACACCCTGATGCAGATTCTTTGTATGTGGAAGAAGTAGATGTCGGAGAAATA GCCCCAAGGACAGTTGTCAGTGGCCTGGTGAATCATGTTCCTCTTGAACAGATGCAAAATCGGATGGTG ATTTTACTTTGTAACCTGAAACCTGCAAAGATGAGGGGAGTATTATCTCAAGCAATGGTCATGTGTGCT AGTTCACCAGAGAAAATTGAAATCTTGGCTCCTCCAAATGGGTCTGTTCCTGGAGACAGAATTACTTTT GATGCTTTCCCAGGAGAGCCTGACAAGGAGCTGAATCCTAAGAAGAAGATTTGGGAGCAGATCCAGCCT GATCTTCACACTAATGATGAGTGTGTGGCTACATACAAAGGAGTTCCCTTTGAGGTGAAAGGGAAGGGA GTATGTAGGGCTCAAACCATGAGCAACAGTGGAATCAAATAA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
Restriction Sites:	SgfI-MluI
ACCN:	NM_001142415
Insert Size:	939 bp

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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001142415.1
RefSeq Size:	2537 bp
RefSeq ORF:	939 bp
Locus ID:	9255
UniProt ID:	Q12904
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. [provided by RefSeq, Dec 2008] Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same isoform (a).