

Product datasheet for **SC114833**

EPM2AIP1 (NM_014805) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EPM2AIP1 (NM_014805) Human Untagged Clone
Tag:	Tag Free
Symbol:	EPM2AIP1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_014805, the custom clone sequence may differ by one or more nucleotides

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ATGTGGATGACGCCAAAAGAAGCAAGATGGAAGTCGACGAGGCTCTAGTTTTCCGGCCCGAGTGGACCC
AGCGTTATTTGGTGGAGCCTCCGGAGGGCGATGGGGCCCTGTGCCTGGTCTGTGCGCCCTCATCGT
AGCTACCCGCGAACGCGACGTCAGGCGCCACTACGAGGCTGAGCACGAATACTACGAGCGGTATGTGGCG
GACGGCGAGCGCGGCCCTGGTGGAGCGTCTGGGTGAGGGCGACTTGCCCGTGGCTCCTTCACTCCTG
AAGAGAGAGCTGCTCGTGACGGCCTCGGGCTCTGCCGCCTTTGGCCTTGAAGGGTCGCGGCTGGGGTGA
GGGGGACTTTGTATACCAGTGCATGGAGGTGTTGCTGAGAGAGGTAAGTGCAGCATGTAAGCGTCTG
CAAGGCGTTGACTTATCTCCAGATATCACAAGGCAGAGGATCCTGAGCATTGACAGGAATCTACGCAACC
AGCTTTTTAACCGAGCCAGGGACTTTAAAGCCTATTCTCTTGCCTTGGACGACCAGGCTTTTGTGCCTA
TGAGAATACCTCCTGGTCTTTATCCGCGGTGTAGGCCCTGAGTTGGAGGTGCAAGAAGATCTTCTGACC
ATAATCAACCTGACTCATATTTAGTGTGGTGCCTCATGTCCGCAATCCTAGAGTCCCTGCAGACAG
CAGGGCTTAGCTTGCAGAGAATGGTTGGACTGACCACGACCCATACTTTGAGGATGATTGGTGAAGTCT
AGGACTCGTCTCATACATGAGAGAAAAGGCCGTAAAGCCCAACTGTTGGAATGTCATTATTATCAGGA
TTTCTTCACTTGAAGTGTGAGCTCCTATGATGTAGATGTTAATCAGATCATAAATACCATATCCGAAT
GGATAGTTTTGATTAAGACCAGAGGCGTTAGGCGACCTGAATTTTCACTTTACTAACGGAATCTGAATC
AGAGCATGGTGAAGGGTTAATGGACGATGTCTGAACAATTTGGCTTAGGAGAGGGAAAACCTTAAAACTA
ATATTCTCTAAGAAAAGAAATGGAAGCGTCTTGGTTTCAGTAGGGGCAACAACAGTCCACTTCTCAG
ACAAACAATGGCTTTGTGACTTTGGCTTCTTGGTGGACATTATGGAACACCTTCGAGAATCAGTGAAGA
ATTACGAGTTAGTAAAGTCTTTGCTGCTGCTGCCTTTGACCATAATTTGACTTTTGAAGTAAAGCTGAAT
TTATTTCAAAGACATATTGAGGAAAAAATCTAACAGACTTTTCCCTCAGAGAAGTGTGATGAGC
TAAAACAGCAAAAATAAGGAAGATGAAAAAATATTTGATCCTGATAGGTATCAAATGGTGTCTGTGCTCT
CCAAAAAGAAATTTGAGAGACATTTTAAGGACCTCAGGTTCAATAAAAAGGACTTAGAACTTTTTTCAAAT
CCATTTAACTTTAACTGAATATGCACCTATTTAGTGGAGGTGGAGCTAACAAAACTTCAGGCAACA
CTAATCTTTGGAATGAATACAGAATCAAAGACTTGGGGCAGTTTTATGCTGGATTGTCTGCTGAATCCTA
CCCAATTATCAAAGGGTTGCCTGTAAGGTGGCATCCTTGTGATAGTAACCAATCTGTGAAAAGGCT
TTTTCATATTTGACTCGAAACCAACACTTTGAGTCAGCCATAACAGATGAGCATCTCCAAGCCCTGT
TTCGGGTTGCCCAACTGAAATGGAGCCCGTTGGGATGACCTTGTGAGAGAAAGAAATGAATCTAATCC
ATAA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014805 unedited

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GTTCAAATTTTGTAAACGACTCACTATAGGGCGGCNCGGATTCGGCACGAGGCTCTTG
TGGCCTCCCGCAGAATGTGGATGACGCCAAAAGAAGCAAGATGGAAGTCGACGAGGCTC
TAGTTTTCCGGCCCGAGTGGACCCAGCGTTATTTGGTGGTGGAGCCTCCGGAGGGCGATG
GGGCCCTGTGCCTGGTCTGTGCGCCCTCATCGTAGCTACCCGCGAACGCGACGTCAGGC
GCCACTACGAGGCTGAGCACGAATACTACGAGCGGTATGTGGCGGACGGCGAGCGCGGG
CCCTGGTGGAGCGTCTGGTTCAGGGCGACTTGCCCGTGGCTCCTTCACTCCTGAAGAGA
GAGCTGCTCGTGACGGCCTCGGGCTCTGCCGCCTTTGGCCTTGAAGGGTCGCGGCTGGG
GTGAGGGGGACTTTGTATACCAGTGCATGGAGGTGTTGCTGAGAGAGGTAAGTGCAGGAGC
ATGTAAGCGTCTGCAAGGCGTTGACTTATCTCCAGATATCACAAGGCAGAGGATCCTGA
GCATTGACAGGAATCTACGCAACCAGCTTTTTAACCGAGCCAGGGACTTTAAAGCCTATT
CTCTTGCCTTGGACGACCAGGCTTTTGTGGCCTATGAGAACTACCTCCTGGTCTTTATCC
GCGGTGTANGCCCTGAGTTGGAGGTGCAAGAAGATCTTCTGACCATAATCAACCTGACTC
ATCATTTCAGTGTGGTGCCTCATGTNCCGCATCCTAGAGTCCCTGCAGACAGCAGGGC
TTANCTTGACAGANATGGNTGGACTGACCACGACCATACTTTTGGATGATTGGTGAAGAA
CTCANGACTCGTCTCATACATGAGAGAAAAGGCCGTNAGCCCCACTGTGGGAATGTCATT
CATATTCAAGC
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_014805 unedited AACCTCCAGGTCCAGNANAGCACTGGGGCAGGGGTACAGGGATGCCACCCGGGATCTGT TCAGGAAACAGCTATGACCGCGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTA CAAACAAGACTAGCTTATAGCAAATCTCTATAGCTAAGGGTCAATTTAAATCCTTGCC TTATATCTCCCCCTCACTCAATGACTACATGATGCAAATAATTTTATTAACACCTAAG CAAAACATACTGGAATTTACAAAATGTACAAGATTTCAATATTTAAGGAACTGGGGTTA GAAAGCAGAAGTGGCTTTCAGGTCTTCCAGTCTTCTCTCAAGTAATAAAGCTCTGCTGT GAATATTCAAAGCTATTGGGAAATTACCGGTAGATTTTTCTGTTTTTTTTTTTCGGTTTT CCACTATGTTGTTTCTCTAGATATGTAAGCTTACTCTATTAACCAAATCTCAGCTTGAC CATTCTTGATAAGTACCTAATCGACATGTAACCTTTTTTCTGCCTTAAATATGTATAACA GGACAGAGCCCTTAAATCTGATTCAATTATTAATCCTGATTTACAAGTCTATGGTGAG CTAACAGAACTTATCAATGCCTTTATTGCACTTACTAGCCAAATTTAGAAGTTGGAAT TAGTCTCTCTATCTAGTATTCTGTCAGTTTGCCAGCTGTACTTTTAAATTTGCTTCT AATGGNAATCTGCCCTATCCCTNGAATAAATAATCTACATTTTGGGAGGGCTAATCTT CATTGTGCCCCAGCTGCCATGCACTGCAGGGNGTGAGTGTCTTTAGGCTTAAATGCCAA CAGAAGCCCNTAGTAATATGACACCCAAAAAATGCCCTACACATTCTCAGCATCTCTG GATGACAGTTACTGCCTTAGTAAAGCACTGCCN
Restriction Sites:	NotI-NotI
ACCN:	NM_014805
Insert Size:	4130 bp
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).
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:	<ol style="list-style-type: none"> 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:	<u>NM_014805.2</u> , <u>NP_055620.1</u>
RefSeq Size:	5567 bp
RefSeq ORF:	1824 bp
Locus ID:	9852
UniProt ID:	<u>Q7L775</u>
Cytogenetics:	3p22.2

Gene Summary:

The EPM2A gene, which encodes laforin, is mutated in an autosomal recessive form of adolescent progressive myoclonus epilepsy. The protein encoded by this gene binds to laforin, but its function is not known. This gene is intronless. [provided by RefSeq, Oct 2008]