

Product datasheet for **SC116585**

EPM2A (NM_005670) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EPM2A (NM_005670) Human Untagged Clone
Tag:	Tag Free
Symbol:	EPM2A
Synonyms:	EPM2; MELF
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_005670, the custom clone sequence may differ by one or more nucleotides

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ATGCGCTTCCGCTTTGGGGTGGTGGTGCCACCCGCCGTGGCCGGCGCCCGCCGGAGCTGCTGGTGGTGG
GGTCGCGGCCCGAGCTGGGGCGTTGGGAGCCGCGCGGTGCCGTCCGCTGAGGCCGGCCGGCACCCGCGC
GGGCGACGGGGCCCTGGCCCTGCAGGAGCCGGCCCTGTGGCTCGGGGAGGTGGAGCTGGCGGCCGAGGAG
GCGGGCGCAGGACGGGGCCGAGCCGGCCCGCTGGACACGTTCTGGTACAAGTTCCTGAAGCGGGAGCCGG
GAGGAGAGCTCTCTGGGAAGGCAATGGACCTCATCATGACCGTTGCTGTACTTACAATGAAAACAACCTT
GGTGGATGGTGTATTGTCTCCAATAGGACTGGATTGAGGCCACTGGGCACACCAATGAAATGAAG
CACACAACAGACTTCTATTTTAATTGCAGGCCACCAAGCCATGCATTATTCAAGAATTCTACCAATA
TCTGGCTGGGTAGCTGCCCTCGTCAGGTGGAACATGTAACCATCAAAGTGAAGCATGAATTGGGGATTAC
AGCTGTAATGAATTTCCAGACTGAATGGGATATTGTACAGAATTCCTCAGGCTGTAACCGCTACCCAGAG
CCCATGACTCCAGACTATGATTAACATATAGGGAAGAAGGCTTGGCCTACATCTGGATGCCAACAC
CAGATATGAGCACCGAAGGCCGAGTACAGATGCTGCCCCAGGCGGTGTGCTGCTGCATGCGCTGCTGGA
GAAGGGACACATCGTGTACGTGCACTGCAACGCTGGGGTGGGCCGCTCCACCGCGCTGTCTGCGGCTGG
CTCCAGTATGTGATGGCTGGAATCTGAGGAAGGTGCAGTATTTCTCATGGCCAAGAGGCCGCTGTCT
ACATTGACGAAGAGCCCTTGGCCCGGCCACAAGAAGATTTTTCCAGAAATTTGGGAAGGTTCTGTTCTTC
TGTGTGATGCCTGTAG
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005670 unedited
 GTAATACGACTACTATAGGGCGGCCGGAATTCGGCACGAGGCCTCGTGCCGAATTCGG
 CACGAGGGCTCGGGCCGCGCCTGCCGGCCGCGGGGACTCCGGGCCGGGTATTCGCGCCG
 CCGCCGCCGCCATGCGCTTCCGCTTTGGGGTGGTGGTGCACCCGCGGTGGCCGGCGCC
 CGGCCGGAGCTGCTGGTGGTGGGTGCGGGCCGAGCTGGGGCGTTGGGACCGCGGGCGG
 GTGCCGTCCGCTGAAGCCGGCCGGCACCGCGGGCGGACGGGGCCCTGGCGTGAAG
 AGCCGGGCTGTGGCTCGGGGAGGTGGAGCTGGCGGCCGAGGAGCGGGCGCAGGACGGGG
 CGGAGCCGGGCCGCTGGACACGTTCTGGTACAAGTTCCTGAAGCGGGAGCCGGGAGGAG
 AGCTCTCCTGGGAAGGAATGGACCTCATCATGACCGTTGCTGTACTTACAATGAAAAACA
 ACTTGGTGGATGGTGTGTATTGTCTCCCAATAGGACACTGGATTGAGGCCACTGGGCACA
 CCAATGAAATGAAGCACACAACAGACTTCTATTTTAATATTGCATGCCACCAAGCCATGC
 ATTATTCAAGAATTCTACCAAATATCTGGCTGGGTAAGTCCCTCGTCAGGTGGAACATG
 TAACCATCAAAGTGAAGCATGAATTGGGGATTACAGCTGAAATGAATCTCCATATGAATG
 GGATATTGTACATAATCCCCCAGCTGAACCGCTACCCAAAGCCATGACTTCAGACCTA
 TGATCAAACCTTACGGAAAAAAGCTTTGCCACATCTGGATGCAAACCAGAATTAATACC
 CAGCCTACCCAAACCCGCCATTAGGTGGCTACCCACGCCCGGGAAAAAGAAAACCAAGT
 ACCCATGAAACTTCGCCAA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_005670 unedited
 GCCGCAATCTAAAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAATGCTTTTATTTGCC
 AAAAGTTTTGGGTGATTTTGAATACATTAGACATCCATTATTGAGGAAAAAGACAGT
 TTATTCCAAAACATTCTTAATAGTCCTAAACTGATTTTGTCTATCAGAGCAAAAAGAAC
 AAAGGTAAAAATCCACCTGAAAAAAGATCTTTGTATCATGGAAATATGAAGCTGGATTT
 CTTAGACATTAAGAAATTCACAGACCCACATAGTTTAAAAATTTAATTTTAAAGATTAA
 ATTTTCAACACATTATGACTGTAAATGAGTTACCTGAATACCAATTATTACCTCTAGT
 TATTTTTAGCAAGGGAGCTGGACTTCACTTACTTAATGTAGCTTATAAATTTAACTTT
 GTAAAATTATAGTGGAATGTGTCCTGGCTAGCTGCCTCTGCCAAAGCAAATGTCATCT
 CCCCTAAGTGCCACAGTTCTATCTCCCCGCTCTGAGCTCCACTGAAACTTACCTTGTA
 TCCTTCTGTCCCCACGCTTCTAAATAAGAGTCTCTTGATCATCAATATGTGTTTG
 TGAAGAAGGAAGGTGCAGAAAAATAAATACGCATCATAGTTTAAATTAGGAAAGTAAGG
 GCTTTGAATCAAACCCAGCTTTGTATCTCACTTCACTATTTTATTCATCATGTGACAATA
 GACAGTTGAGTTAACCTTCTGACCTTAGTTTCCCATNCTTATCATGGAGATAATGAGA
 ACCTCTTCATTGGATATTNGAAGATTAAGTGGATATGATATATACACCTTGCACATAG
 AGCTCTCATTAAAAAACACTCTCTTTCTTCATTTAGCATTATTTCATGGCCATCCTGCAT
 ACAGTGGTATGAGTCTGTNCTAGCACACATTTGAGCAAGTGTCTCTTGATTCTCGAAC
 TG

Restriction Sites:

NotI-NotI

ACCN:

NM_005670

Insert Size:

3570 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:	NM_005670.3 , NP_005661.1
RefSeq Size:	3474 bp
RefSeq ORF:	996 bp
Locus ID:	7957
UniProt ID:	O95278
Cytogenetics:	6q24.3
Domains:	DSPc
Protein Families:	Druggable Genome, Phosphatase
Gene Summary:	<p>This gene encodes a dual-specificity phosphatase and may be involved in the regulation of glycogen metabolism. The protein acts on complex carbohydrates to prevent glycogen hyperphosphorylation, thus avoiding the formation of insoluble aggregates. Loss-of-function mutations in this gene have been associated with Lafora disease, a rare, adult-onset recessive neurodegenerative disease, which results in myoclonus epilepsy and usually results in death several years after the onset of symptoms. The disease is characterized by the accumulation of insoluble particles called Lafora bodies, which are derived from glycogen. [provided by RefSeq, Jan 2018]</p> <p>Transcript Variant: This variant (1) represents the longest transcript, and encodes the longest isoform (a). Isoform a has been localized to the rough endoplasmic reticulum.</p>