

Product datasheet for SC302137

EPM2A (NM_001018041) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EPM2A (NM_001018041) Human Untagged Clone
Tag:	Tag Free
Symbol:	EPM2A
Synonyms:	EPM2; MELF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC302137 representing NM_001018041. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCGCTTCCGCTTTGGGGTGGTGGTGCCACCCCGGTGGCCGGCGCCGGCCGGAGCTGCTGGTGGTG
GGGTCGCGGCCCGAGCTGGGGCGTTGGGAGCCGCGCGGTGCCGTCCGCTGAGGCCGGCCGGCACCAGCG
GCGGGCGACGGGGCCCTGGCCCTGCAGGAGCCGGGCGTGGCTCGGGGAGGTGGAGCTGGCGGCCGAG
GAGGCGGCGCAGGACGGGGCGGAGCCGGGCGCGTGGACACGTTCTGGTACAAGTTCTGAAGCGGGAG
CCGGGAGGAGAGCTCTCCTGGGAAGCAATGGACCTCATCATGACCGTTGCTGTACTTACAATGAAAAC
AACTTGGTGGATGGTGTATTGTCTCCAATAGGACACTGGATTGAGGCCACTGGGCACACCAATGAA
ATGAAGCACACAACAGACTTCTATTTTAAATATTGCAAGCCACCAAGCCATGCATTATTCAAGAATTCTA
CCAAATATCTGGCTGGTAGCTGCCCTCGTCAGGTGGAACATGTAACCATCAAATGAAGCATGAATTG
GGGATTACAGCTGTAATGAATTTCCAGACTGAATGGGATATTGTACAGAATTCCTCAGGCTGAACCGC
TACCCAGAGCCCATGACTCCAGACACTATGATTAACATATAGGGAAGAAGGCTTGGCCTACATCTGG
ATGCCAACACCAGATATGAGCACCGAAGGCCGAGTACAGATGCTGCCAGGCGGTGTGCCTGCTGCAT
GCGCTGCTGGAGAAGGGACACATCGTGTACGTGCACTGCAACGCTGGGGTGGGCCGCTCACCCGCGCT
GTCTGCGGCTGGCTCCAGTATGTGATGGCTGGAATCTGAGGAAGGTGCAGTATTTCTCATGGCCAAG
AGGCCGGCTGTCTACATTGACGAAGAGGCAGTAGCCAGGACACATTTCCACTATAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001018041
Insert Size:	954 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:	<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_001018041.1
RefSeq Size:	1711 bp
RefSeq ORF:	954 bp
Locus ID:	7957
UniProt ID:	O95278
Cytogenetics:	6q24.3
Protein Families:	Druggable Genome, Phosphatase
MW:	35.5 kDa
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 (2) lacks a segment of the coding region compared to variant 1. The resulting isoform (b), also known as C-terISO, contains a shorter and distinct C-terminus compared to isoform a. Isoform b has been localized to the nucleus.</p>