

Product datasheet for **SC312323**

EMP2 (AK096403) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EMP2 (AK096403) Human Untagged Clone
Tag:	Tag Free
Symbol:	EMP2
Synonyms:	XMP
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for AK096403, the custom clone sequence may differ by one or more nucleotides ATGGTCATCCTTAACCTGCGTGCCAGATTTAGACTCGTCTTTAGGCAAAACCTACAGCGC CCCCCCCCTACCCAGACCTACAGAATCAGAGTCTCAAGGGATGGGGCCAGGGAATCT GCATTTCTAACGCGCTCCCTGGGCAACGCTTCAGATGCGTTGAAGTTGGGGACCACGGTG CCTGGGCCAGGTCAGCAGAGCTGCCTCGTAAATGCTGGGGTATCGTCATGTGGAGATGGG GAGGTGAATGCAACCCCAACAGCAGGCCAAAACCTTGGCCTCCATCGCCACAGCTGTCTA CATCTAGGGCCCCAAAACCTCCATTCCTGAGCCATGTGAACTCATAGACACCTTCAGGGTG TGGGGTACAGCCTCCTTCCCATCTTATCCAGAAGGCCTCTCCCTTCTTGTCCAGCCCTT CATGCTACACCTGGCTGGCCTCTACCCCTATTTCTAGAGCCTCAGAGGACCCATCCACC ATTCATTCATTCATTCATTCATTCATTCATTCATTCATTCATTCATTCATTCATCAACA
Restriction Sites:	Please inquire
ACCN:	AK096403
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).



[View online »](#)

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: [AK096403.1](#)

RefSeq Size: 2242 bp

RefSeq ORF: 2242 bp

Locus ID: 2013

Cytogenetics: 16p13.13

Protein Families: Transmembrane

Gene Summary: This gene encodes a tetraspan protein of the PMP22/EMP family. The encoded protein regulates cell membrane composition. It has been associated with various functions including endocytosis, cell signaling, cell proliferation, cell migration, cell adhesion, cell death, cholesterol homeostasis, urinary albumin excretion, and embryo implantation. It is known to negatively regulate caveolin-1, a scaffolding protein which is the main component of the caveolae plasma membrane invaginations found in most cell types. Through activation of PTK2 it positively regulates vascular endothelial growth factor A. It also modulates the function of specific integrin isomers in the plasma membrane. Up-regulation of this gene has been linked to cancer progression in multiple different tissues. Mutations in this gene have been associated with nephrotic syndrome type 10 (NPHS10). [provided by RefSeq, Mar 2015]