

Product datasheet for **SC108082**

EMP2 (NM_001424) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EMP2 (NM_001424) Human Untagged Clone
Tag:	Tag Free
Symbol:	EMP2
Synonyms:	XMP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC108082 sequence for NM_001424 edited (data generated by NextGen Sequencing)

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ATGTTGGTGCTTCTTGCTTTTCATCATCGCCTTCCACATCACCTCTGCAGCCTTGCTGTTT  
ATTGCCACCGTCGACAATGCCTGGTGGGTAGGAGATGAGTTTTTGCAGATGTCTGGAGA  
ATATGTACCAACAACACGAATTGCACAGTCATCAATGACAGCTTTCAAGAGTACTCCACG  
CTGCAGGCGGTCCAGGCCACCATGATCCTCTCCACCATTCTCTGCTGCATCGCCTTCTTC  
ATCTTCGTGCTCCAGCTCTCCGCCTGAAGCAGGGAGAGAGGTTTGCCTAACCTCCATC  
ATCCAGCTAATGTCATGTCTGTGTGTCATGATTGCGGCCCTCATTATACAGACAGGCGT  
GAAGACATTCACGACAAAAACGCGAAATTCTATCCCGTGACCAGAGAAGGCAGCTACGGC  
TACTCCTACATCCTGGCGTGGGTGGCCTTCGCCTGCACCTTCATCAGCGCATGATGTAC  
CTGATACTGAGGAAGCGCAAATAG
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Clone variation with respect to NM_001424.4



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001424 unedited
 TTTGTAATACGACTCACTATAGGCGCGCCGCAATTCGGCACGAGGCGCCTCGACTCGCC
 CTGCCCTGTGAAAAGTTGGTGCTTCTTGCTTTCATCATCGCCTTCCACATCACCTCTGCA
 GCCTTGCTGTTTATTGCCACCGTCGACAATGCCTGGTGGGTAGGAGATGAGTTTTTTGCA
 GATGTCTGGAGAATATGTACCAACAACGAATTGCACAGTCATCAATGACAGCTTTCAA
 GAGTACTCCACGCTGCAGGCGGTCCAGGCCACCATGATCCTCTCCACCATTCTCTGCTGC
 ATCGCCTTCTTTCATCTTCTGCTCCAGCTCTTCCGCTGAAGCAGGGAGAGAGGTTTGTG
 CTAACCTCCATCATCCAGCTAATGTCATGTCTGTGTGTCATGATTGCGGCCTCCATTAT
 ACAGACAGGCGTGAAGACATTACGACAAAAACGCAAAATCTATCCCCTGACCAGAGAA
 GGCAGCTACGGCTACTCTACATCCTGGCGTGGGTGGCCTTCGCCTGCACCTTCATCAGC
 GGCATGATGTACCTGATACTGAGGAAGCGCAAATAGAGTTCGGAGCTGGGTTGCTTCTG
 CTGCAGTACAGAATCCACATTCAGATAACCATTTTGTATATAATCATTATTTTTTTGAGG
 TTNTTCTAGCAAACGTNATTGTTTCCTTTTAAAGCCAAAAAAAAAAAAAAAAANNNNANNA
 NAANAAAAAAAAANAAAAAAAAANAAAAAAAAAAAAAAAAANAAAAAAAAAAAAAAAAANACC
 CTCATTTTAATTGCCCGCGGTCTATAACTTTTTCTTGACAATCCCCGGGTGGATTCTGG
 GACCCTCCAGGCCTTCTGCCCGTGAAGTGCCCTTCACGGCCACCTGGCTAAAAAA
 ATAGTGCTCATTGCGACAAGGGCTATN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001424 unedited
 TTTTTTTTTNNNNNTTNNNTTTTATTTATTTTTTTTTGAAATCTTTAGGATAACATA
 CGTTTGCTAGNAAAACCTCAAAAATAATGATTTTACAAAAGTTCATCTGATGTGGATTC
 TGTACTGCAGCAGAAGCAACCCAGCTCCGGAATCTATTTGCGCTTCTCAGTATCAGGT
 ACATCATGCCGCTGATGAAGGTGCAGGCGAAGGCCACCCACGCCAGGATGTAGGAGTAGC
 CGTAGCTGCCTTCTCTGGTACGGGATAGAATTTGCGCTTTTTGTCGTGAATGTCTTAC
 GCCTGTCTGTATAAATGGAGGCCGATTATGACACACAGACATGACATTACCTGGATGA
 TGGAGGTTAGGACAAACCTCTCTCCCTGCTTCAGGCGGAAGAGCTGGAGCACGAAGATGA
 AGAAGGCGATGCAGCAGATAATGGTGGAGAGGATCATGGTGGCCTGGACCGCCTGCAGCG
 TGGAGTACTCTTGAAAGCTGTCATTGATGACTGTGCAATTCGTGTTGATGGTACATATTC
 TCCAGACATCTGCAAAAACTCATCTCCTACCCACCCAGCATTGTCGACGGTGGCAATGA
 ACAGCAAGGCTTGACAGGTGATGTGGAAGGCGATGATGAAAGCCAGACACCCCAACCTTT
 TCACAGTGCACGGCCAAGCCAGGCGACTTCGTGCCCGAATTTCCGGCCGCCCTATAGTG
 AGCCCGGATTACAAAAATCTGGCGGGTCCACTAAACGAAGCTCTGGTTTATTAACCTT
 CCCACCGTACACGCCCTACCGCCAATTTGGGTCCACGGGGCCGGGTATTTACCACATT
 TTTGAAAGTTCCCGTTGTTTCTTGGGGGCCAAACAAAACCTCCCTATGCCCGTTAATT
 GGGCGTGGCAGACTTTGAACATCCCGGCGAGTANACACGCTTTTGTACGCCCCATCTG
 CCGGACCTCGCC

Restriction Sites:

NotI-NotI

ACCN:

NM_001424

Insert Size:

660 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_001424.3 , NP_001415.1
RefSeq Size:	1484 bp
RefSeq ORF:	504 bp
Locus ID:	2013
UniProt ID:	P54851
Cytogenetics:	16p13.13
Domains:	PMP22_Claudin
Protein Families:	Transmembrane
Gene Summary:	<p>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]</p>