

Product datasheet for MC208436

Emp2 (NM_007929) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: Emp2 (NM 007929) Mouse Untagged Clone

Tag: Tag Free

Symbol: Emp2

Synonyms: XMP

Mammalian Cell

Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

Restriction Sites: Sgfl-Mlul

ACCN: NM_007929

Insert Size: 519 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional

amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA.

Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence

verification at a reduced cost. Please contact our customer care team at

custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

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).



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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: NM 007929.2, NP 031955.2

 RefSeq Size:
 3440 bp

 RefSeq ORF:
 519 bp

 Locus ID:
 13731

 UniProt ID:
 088662

 Cytogenetics:
 16 5.54 cM

Gene Summary: Functions as a key regulator of cell membrane composition by regulating proteins surface

expression. Also, plays a role in regulation of processes including cell migration, cell proliferation, cell contraction and cell adhesion. Negatively regulates caveolae formation by reducing CAV1 expression and CAV1 amount by increasing lysosomal degradation (PubMed:17609206, PubMed:14978215). Facilitates surface trafficking and the formation of

lipid rafts bearing GPI-anchor proteins (PubMed:14978215). Regulates surface expression of

MHC1 and ICAM1 proteins increasing susceptibility to T-cell mediated cytotoxicity (PubMed:12763482). Regulates the plasma membrane expression of the integrin heterodimers ITGA6-ITGB1, ITGA5-ITGB3 and ITGA5-ITGB1 resulting in modulation of cell-

matrix adhesion (PubMed:12189152). Also regulates many processes through PTK2.

Regulates blood vessel endothelial cell migration and angiogenesis by regulating VEGF protein

expression through PTK2 activation (By similarity). Regulates cell migration and cell

contraction through PTK2 and SRC activation (By similarity). Regulates focal adhesion density, F-actin conformation and cell adhesion capacity through interaction with PTK2 (By similarity). Positively regulates cell proliferation (By similarity). Plays a role during cell death and cell blebbing (By similarity). Promotes angiogenesis and vasculogenesis through induction of

VEGFA via a HIF1A-dependent pathway (By similarity). Also plays a role in embryo implantation by regulating surface trafficking of integrin heterodimer ITGA5-ITGB3 (PubMed:16487956, PubMed:16216233). May play a role in glomerular filtration (By

similarity).[UniProtKB/Swiss-Prot Function]