

Product datasheet for RC201706L3

OriGene Technologies, Inc.

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emopamil binding protein (EBP) (NM_006579) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: emopamil binding protein (EBP) (NM_006579) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: emopamil binding protein

Synonyms: CDPX2; CHO2; CPX; CPXD; MEND

Mammalian Cell

Selection:

Puromycin

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

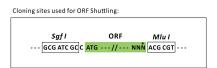
ORF Nucleotide

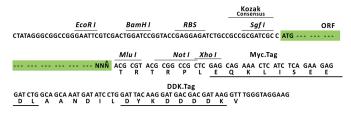
The ORF insert of this clone is exactly the same as(RC201706).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_006579

ORF Size: 690 bp



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OTI Disclaimer: 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

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

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: 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 006579.1

 RefSeq Size:
 1191 bp

 RefSeq ORF:
 693 bp

 Locus ID:
 10682

 UniProt ID:
 Q15125

Protein Families: Druggable Genome, Transmembrane

Xp11.23

Protein Pathways: Metabolic pathways, Steroid biosynthesis

MW: 26.4 kDa

Cytogenetics:

Gene Summary: The protein encoded by this gene is an integral membrane protein of the endoplasmic

reticulum. It is a high affinity binding protein for the antiischemic phenylalkylamine Ca2+ antagonist [3H]emopamil and the photoaffinity label [3H]azidopamil. It is similar to sigma receptors and may be a member of a superfamily of high affinity drug-binding proteins in the endoplasmic reticulum of different tissues. This protein shares structural features with bacterial and eukaryontic drug transporting proteins. It has four putative transmembrane segments and contains two conserved glutamate residues which may be involved in the transport of cationic amphiphilics. Another prominent feature of this protein is its high content of aromatic amino acid residues (>23%) in its transmembrane segments. These aromatic amino acid residues have been suggested to be involved in the drug transport by the P-glycoprotein. Mutations in this gene cause Chondrodysplasia punctata 2 (CDPX2; also

known as Conradi-Hunermann syndrome). [provided by RefSeq, Jul 2008]