OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC322500

emopamil binding protein (EBP) (NM_006579) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	emopamil binding protein (EBP) (NM_006579) Human Untagged Clone
Tag:	Tag Free
Symbol:	emopamil binding protein
Synonyms:	CDPX2; CHO2; CPX; CPXD; MEND
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for SC322500 GCGAGACCCAGCCTAAAGAGAGCCCGGAGCCAGCGTGGGAGGCCGCTGCCGTCGCGCGCC TTGGTTTTTCTGTTCCTTTTTTTTTTTTTTTTTTTAACTTCCTGCCTATACACACGCAGC CATCAGCCCACAAAGACATGACTACCAACGCGGGCCCCTTGCACCCATACTGGCCTCAGC ACCTAAGACTGGACAACTTTGTACCTAATGACCGCCCCACCTGGCATATACTGGCTGGCC TCTTCTCTGTCACAGGGGTCTTAGTCGTGACCACATGGCTGTTGTCAGGTCGTGCTGCGG TTGTCCCATTGGGGACTTGGCGGCGACTGTCCCTGTGCTGGTTTGCAGTGTGTGGGTTCA TTCACCTGGTGATCGAGGGCTGGTTCGTTCTCTACTACGAAGACCTGCTTGGAGACCAAG CCTTCTTATCTCAACTCTGGAAAGAGTATGCCAAGGGAGACAGCCGATACATCCTGGGTG ACAACTTCACAGTGTGCATGGAAACCATCACAGCTTGCCTGTGGGGACCACTCAGCCTGT GGGTGGTGATCGCCTTTCTCCGCCAGCATCCCCTCCGCTTCATTCTACAGCTTGTGGTCT CTGTGGGCCAGATCTATGGGGATGTGCTCTACTTCCTGACAGAGCACCGCGACGGATTCC AGCACGGAGAGCTGGGCCACCCTCTCTACTTCTGGTTTTACTTTGTCTTCATGAATGCCC TGTGGCTGGTGCTGCCTGGAGTCCTTGTGCTTGATGCTGTGAAGCACCTCACTCATGCCC AGAGCACGCTGGATGCCAAGGCCACAAAAGCCAAGAGCAAGAAGAACTGAGGAGTGGTGG ACCAGGCTCGAACACTGGCCGAGGAGGAGCTCTCTGCCTGCCAGAAGAGTCTAGTCCTGC TCCCACAGTTTGGAGGGACAAAGCTAATTGATCTGTCACACTCAGGCTCATGGGCAGGCA CAAGAAGGGGAATAAAGGGGCTGTGTGAAGGCACTGCTGGGAGCCATTAGAACACAGATA CAAGAGAAGCCAGGAGGTCTATGATGGTGACGATTTTTAAAATCAGGAAATAAAAGATCT TGACTCTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
Restriction Sites:	Please inquire
ACCN:	NM_006579

View online »

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:	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, NP_006570.1
RefSeq Size:	1073 bp
RefSeq ORF:	693 bp
Locus ID:	10682
UniProt ID:	Q15125
Cytogenetics:	Xp11.23
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Metabolic pathways, Steroid biosynthesis
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]