

## Product datasheet for MR206581

### Cept1 (BC021753) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cept1 (BC021753) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cept1
Synonyms:	9930118K05Rik; mCEPT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206581 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTGGGCATCGGTCAACAAGGAAACGATGTGGAGATTCTCACCCAGAGTCCCCTGTGGGCTTTGGGC  
ATATGAGTACTACAGGGTGTGTATTAATAAATGTTTCAGTTACCGACACCACCCTGTCAAGACACCA  
GTTAAACGGCTAGAAGAACACAGGTATCAGAGTGTGGACGGTCCCTTCGAGCCCTAATGCAAGGA  
TACTGGGAATGGCTAGTTGGAAGAGTACCCTCATGGATTGCCCAATTCATCACCATCATTGGACTAT  
CAATAAATATCTGTACAACATTTTTGTTAGTCTTCTACTGCCCTACAGCTACAGAGCAGGCACCTCTGTG  
GGCTTATATTGCCTGTGCTTGTGGCCTTTTCATTTACCAGTCTCTGGATGCCATAGATGGGAAACAGGCC  
AGAAGAACTAACAGTAGCTCTCCTCTGGGGAACTTTTGATCATGGCTGTGACTCACTATCGACAGTTT  
TTGTGGTCTTGGAACTTGTATTGCAGTACAACCTGGGACAAATCCTGACTGGATGTTTTTTTGTGTTT  
TGCTGGGACATTCATGTTCTATTGTGCACACTGGCAAACATATGTTTCTGGAACATTGCGATTTGGAATA  
TTCGATGTTACAGAGTCCAGATCCATAATTATATTCCAGTCTCTCAGGAACCGTGGGCTTGGT  
TCTGGAACCTCACGATTCCTGTGTTGAATTTCAAATGAACTTCTTCTGCACTTTGTACTGTGGCAGG  
GACCATATTTTCTGTACAAATTAATCCGTGTAATCTTCACAGGTGGTGTGGCAAAAATGGGTCAACC  
ATAGCAGGAACAAGTCTCTTTCTCCTTTCTGCATATTGGATCAGTGATCAGTTCAGTGTATGATGAT  
ACAAGAAATCAGCAGTTCAGCTTTTGGAAAAGCATCCATGTCTTTATATACTGACATTTGGTTTTGTGTC  
GGCTAAAATCACTAATAAGCTTGTGGTGTCTCACATGACGAAAAGTAAAATGCATTTGCATGACACAGCA  
TTCATAGGTCCAGCACTTCTGTTTCTGGACCAGTATTTAACAGCTTCATTGATGAATATAGTACTTT  
GGATTGCCTTGATCTTCTTTCTTTGATTTGATTGTTACTGTGTCAGTGTGGCAATCAGATTGCATC  
TCACCTGCATATACATGTCTTCAGAATTAAGCCTCTACAGCTCACTCTAATCATCAC

**ACGGT**ACGGCGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR206581 protein sequence  
Red=Cloning site Green=Tags(s)

MSGHRSTRKRCGDSHPESPVGFGHMSTTGCVLNKLFLPTPPLSRHQLKRLEEHRYSAGRSLLLEPLMQG  
 YWEWLVRVPWSWIAPNLITIIIGLSINICTTILLVFYCPATEQAPLWAYIACACGLFIYQSLDAIDGKQA  
 RRTNSSSPLGELFDHGCDLSLTVFVVLGTICIAVQLGTNPDMWFCCFAGTFMFYCAHWQTYVSGTLRFGI  
 FDVTESQILIIILFQLLSGTVGPWFNFTIPVLNIQMKLLPALCTVAGTIFSCTNYFRVIFTGGVGNKST  
 IAGTSVLSPLFHIGSVITLAVMIYKSAVQLFEKHPCLYILTFGFVSAKITNKLVAHMTKSEMHLHDTA  
 FIGPALLFLDQYFNSFIDEYIVLWIALIFSFFDLIRYCVSVCNQIASHLHIHFRIKASTAHSNHH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** BC021753

**ORF Size:** 1248 bp

**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:** [BC021753](#), [AAH21753](#)

**RefSeq Size:** 2038 bp

**RefSeq ORF:** 1250 bp

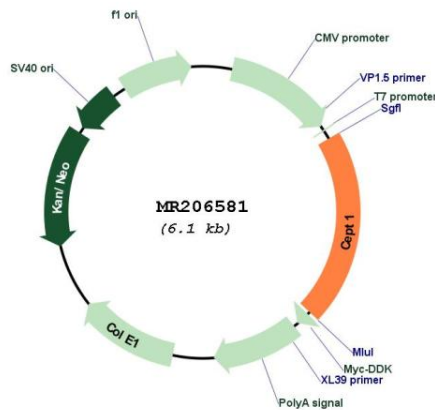
**Locus ID:** 99712

**Cytogenetics:** 3 F2.3

**MW:** 46.5 kDa

**Gene Summary:** Catalyzes both phosphatidylcholine and phosphatidylethanolamine biosynthesis from CDP-choline and CDP-ethanolamine, respectively. Involved in protein-dependent process of phospholipid transport to distribute phosphatidyl choline to the luminal surface. Has a higher cholinephosphotransferase activity than ethanolaminephosphotransferase activity (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR206581