

Product datasheet for **RR207172**

CEPT1 (NM_001007699) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cept1 (NM_001007699) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Cept1
Synonyms: MGC95031
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR207172 representing NM_001007699
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGTGGGCATCGGTCAACAAGGAAACGATGTGGAGATTCTCACCCAGAGTCCCCTGTGGGCTTCGGGC
ATATGAGTACTACAGGGTATATTTAAATAAATGTTTCAGTTACCGACACCACCCTGTCAAGACACCA
ATTTAAACGGCTAGAAGAACACAGGTATCAGAGTGTGGACGGTCCCTTCTCGAGCCCTTAATGCAAGGA
TACTGGGAATGGCTAGTTGGAAGAGTACCTCATGGATTGCCCAAATCTCATCACCATCATTGGACTAT
CAATAAATATCTGTACAACATTTTTGTTAGTCTTCTACTGCCCTACAGCTACAGAGCAGGCACCTCTGTG
GGCTTACATCGCCTGTGCTTGGCGCCTTTTCATTTACCAGTCACTGGATGCTATAGACGGGAAACAGGCC
AGAAGAATAACAGTAGCTCTCCTTTGGGAGAAGCTTTTGGATCATGGCTGTGACTCACTATCAACAGTTT
TTGTGGTCTTGGAACGTGTATTGCAGTGCAACTGGGACAAATCCTGACTGGATGTTTTTTTTGTTGTTT
TGCTGGGACATTCATGTTCTACTGTGCACACTGGCAAACATACGTTTCTGGAACATTGCGATTTGGAATA
ATTGATGTGACTGAAGTGCAAACTTTCATAAATAATCATGCATTTGCTGGCAGTGATTGGAGGACCCTT
TTTGGCAATCTATGATTCAGTGTGAATATCCAATGAAACTTTTCTGCACCTTGTACTGTGGCAGG
GACCATATTTTCTGTACAAATACTTCCGTGTAATCTTACAGGTGGTGTGGCAAAAATGGATCAACC
ATAGCAGGAACAAGTGCTCTTTCTCCTTTTCTGCACATTGGATCAGTGATCACATTAGCTGTTATGATCT
ATAAGAAGTCAGCAGTTCAGCTTTTGGAAAGCATCCATGCTTTATATACTGACATTTGGTTTTGTGTC
AGCTAAAATCACTAATAAGCTTGTGGTTGCACACATGACGAAAAGTGAGATGCATTTGCATGACACAGCA
TTCATAGTCCAGCACTTTTGTCTGGACCAGTATTTAACAGCTTCATTGATGAATATATAGTACTTT
GGATTGCCCTGGTCTTCTTTCTTTGACTTGATTGCTTACTGTGTCAGTGTGGCAACCAGATCGCATC
TCACCTGCATATACATGTCTTCAGAATAAAACCTCTACAGCTCACTCTAATCATCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR207172 representing NM_001007699
 Red=Cloning site Green=Tags(s)

MSGHRSTRKRCGDSPVGFVGHMSTTGCILNKLFLPTPLSRHQLKRLEEHRYSAGRSLLLEPLMQG
 YWEWLVRVPSWIAPNLITIIIGLSINICTTILLVFYCPATEQAPLWAYIACACGLFIYQSLDAIDGKQA
 RRTNSSSPLGELFDHGCDLSTVFVVLGTICIAVQLGTNPDMWFCCFAGTFMFYCAHWQTYVSGTLRFGI
 IDVTEVQIFIIIMHLLAVIGPPFWQSMIPVLNIQMKLFPALCTVAGTIFSCTNYFRVIFTGGVKGNGST
 IAGTSVLSPLFHIGSVITLAVMIYKSAVQLFEKHPCLYILTFGFVSAKITNKLVAHMTKSEMHLHDTA
 F I G P A L L F L D Q Y F N S F I D E Y I V L W I A L V F S F D L I R Y C V S V C N Q I A S H L H I H V F R I K T S T A H S N H H

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

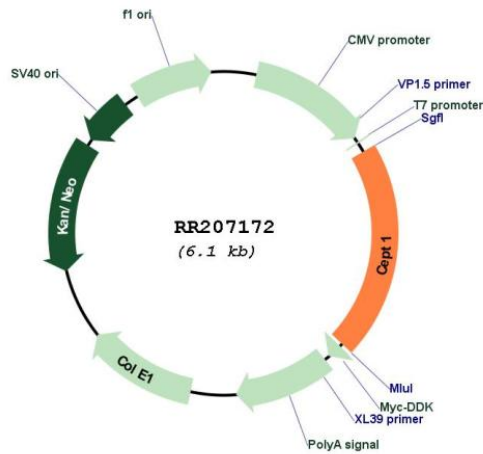
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001007699

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:	<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_001007699.1 , NP_001007700.1
RefSeq Size:	2186 bp
RefSeq ORF:	1251 bp
Locus ID:	310773
UniProt ID:	Q6AXM5
Cytogenetics:	2q34
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]