

## Product datasheet for **MG223977**

### Chpt1 (NM\_001146690) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Chpt1 (NM\_001146690) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Chpt1  
**Synonyms:** MGC28885  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG223977 representing NM\_001146690  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGCGGGCGCCGGGGCCAGGCCGGCGCCGCTGGGTAAGGCGCTAGGTGAGCCGCTCAGTGCCG  
 CGCAGCTCGGGCGGCTGGAGGAGCACCGCTACACCGGGTGGGAGAGTCGCTGTTGAGCCGCCGCTGCA  
 GCTTTACTGGACCTGGCTGCTCCAATGGATCCCCTCTGGATGGCCCCAACACCATCACCTCATCGGC  
 CTCGCCATCAACCTGGTACCACACTAGTGCTCATCTTCTACTGCCCTACAGTCACGGAGGAGGCACCAT  
 ACTGGACATACCTTTTATGTGCCCTGGGACTCTTTATCTACCAGTCACTGGATGCCATTGATGGGAAACA  
 AGCCAGAAGGACAACTCTTGCTCTCCCTTAGGGGAACTATTTGATCATGGTTGTGACTCTTTCCACA  
 GTATTTATGGCCATCGGCGCTTCCATTGCTGTTGCGCTAGGAACACATCCTGACTGGTTGTTTTCTGCT  
 CTTTCGTTGGGATGTTTACTGTGCTCATTGGCAGACTTACGCTCAGGAGTGTTAAGATTTGG  
 AAGGGTGGATGCTACTGAGATCCAGGTAGCTTTAGTGATCGTCTTCATGTTGTCAACATTTGGAGGAGCA  
 ACAATGTGGGACTATACGATACCTATTCTAGAAATAAACTGAAGATTGTTCCGGTCTTTGGAGTTGTAG  
 GTGGATTAATATTTCTGTTCAAATATTTCCATGTGATCCTCCATGGTGGTGTGGCAAGAATGGGTC  
 TACTATTGCAGGCACCACTGTCTTGTACCTGGACTCCACATAGGATTAATTATTAATTTGGCAATAATG  
 ATCTATAAGAAGTCTGCAACAAATATGTTGAAAACATCCTTGCCTTTACTTTAATGTTGGATGTG  
 TCTTTGCTAAAGTTGCACAAAATTTGGTATAGCTCACATGACGAAAAGTGAACATATCTTCAAGACAC  
 TGCTTTATTGGGCCAGGTCTTTTATTTTAGACCAATACTTTAATAATTTTATAGATGAATATGTTGTT  
 CTGTGGATAGCAATGGTCATTTCTCATTTGATATGATGATATACTTTACTTCTTTGTGCTGCAAAATTT  
 CAAGACACCTTCATCTAAACATCTTCAAGACTTCATGTCAACAAGCACCGGAACAGGTTCAAGTTCTTTT  
 TCAAAGACTCATCAGAATAACATGGAT

**ACGGTACGCGGCCGCTCGAG** - GFP Tag - **GTTTAA**



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**Protein Sequence:** >MG223977 representing NM\_001146690  
 Red=Cloning site Green=Tags(s)

MAAGAGARPAPRWVKALGEPLSAAQLRRLLEEHRYSVAVGESLFEPPLQLYWTWLLQWIPLWMPNTITLIG  
 LAINLVTTLLVIFYCPTVTEEAPYWTYLLCALGLFIYQSLDAIDGKQARRTNSCSPLGELFDHGCDLST  
 VFMAIGASIAVRLGTHPDWLFCSFVGMFMFYCAHWQTYVSGVLRFRGRVDVTEIQVALVIVFMLSTFGGA  
 TMWDYTIPILEIKLKIVPVLGVVGLIFSCSNYFHVILHGGVGNKSTIAGTSVLSPLHIGLIIILAIM  
 IYKKSATNMFEKHPCLYTLMFGCVFAKVAQKLVIAHMTKSELYLQDVFVIGPGLLFLDQYFNNFIDEYVV  
 LWIAMVISSFDMMIYFTSLCLQISRHLHLNIFKTSQQAPEQVQVLSKTHQNNMD

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001146690

**ORF Size:** 1218 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:** [NM\\_001146690.1](#), [NP\\_001140162.1](#)

**RefSeq Size:** 1466 bp

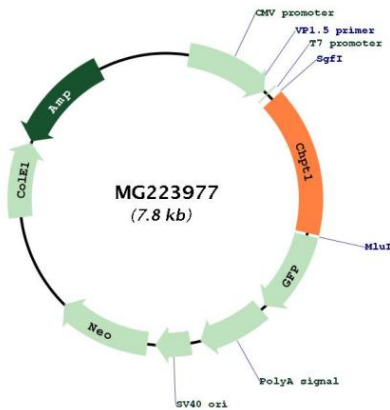
**RefSeq ORF:** 1221 bp

**Locus ID:** 212862

**Cytogenetics:** 10 C1

**Gene Summary:** Catalyzes phosphatidylcholine biosynthesis from CDP-choline. It thereby plays a central role in the formation and maintenance of vesicular membranes (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG223977