

## Product datasheet for **MG213843**

### Cpq (NM\_176073) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cpq (NM_176073) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cpq
Synonyms:	1190003P12Rik; 2610034C17Rik; Hls2; Lal-1; Pgcp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG213843 representing NM\_176073  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGGTCCTTTTCTTCTGTTTATTGTTACCTTTTAGCCTTGGGCTCTGGTAAAGCTGTATTCAAGA  
 ATGGTGTTCCTCAGCGAACATTTTCGAGAAATAAAGAAGAAATAGCCAACATGAAGATGTTGCTAAAGC  
 AATTATCAACCTTGCTGTTTATGGTAAATACCAGAACCGTCTATGAGCGTTTGGGACTTCTAGTTGAT  
 ACTGTTGGACCCAGACTGAGTGGCTCTAAGAACCCTAGAGAAAGCTATTCAAATCATGTACCAAACTCGC  
 AGCAAGATGGGCTAGAAAATGTTACCTGGAGCAGGTCAGAATACCCACTGGGAGAGGGGAGAAGAATC  
 TGCAGTGTGCTGAGCCTCGAATTCACAAGATGGCTATTCTAGGTCTTGGCAGCAGCATTGGGACTCCC  
 CCAGGAGGCATCACAGCAGAAGTCTGGTGGTAGCCTCTTTGATGAACCTCAAAGAAGAGCATCAGAAG  
 CAAGAGGGAAGATCATTGTTTATAACCAGCCTTACTGGCTATGAGAAGACTGTGCAGTACCGGTGCA  
 GGGAGCTGTGGAAGCTGCCAAGGTGGGAGCTGTGGCATCCCTCATCCAATCAGTAGCTTCTTTTCCATC  
 TACAGTCTCACACAGGTATTCAGAAATATCAAGATGGTGTGCCAAGATTCCAACAGCCTGTATCACAG  
 TAGAAGATGCAGAAATGATGTCTCGAATGGCTTCTCGTGGGAACAAAATTGTCATTTCATCTGAAATGGG  
 AGCAAAGACCTATCCAGATACTGATTCTTCAATACTGTTGCAGAGATCACTGGGAGCATGTATCCAGAG  
 GAAGTTGCTCGTCACTGGACATTTGGACAGCTGGGATGTTGGGAGGGTGCAGTGGATGATGGTGGT  
 GAGCCTTCATATCATGGGAAGCACTCTCACTTGTAAAGATCTTGGGCTGCGTCCAAAGAGGACTCTGCG  
 CCTGGTCTCTGGACTGCAGAAGAACAAGGAGGAATTGGTGCCTCCAGTATTATGAGCTACATAAGGCA  
 AATATTTCCAAGTACAGCTTGGTGTGGAAGCTGACTCAGGAACCTTCTACCCACTGGACTGCAGTCA  
 CTGGCAGTGACAAGGCCAGGGCTATCATGAAGGAAGTCAATGAATCTTCTGCAACCCCTCAATGTCACCA  
 GGCTCTTAGTAATGGAGAAGGAAGTATTAATCTTGGATCCAAGCTGGAGTACCTGGAGCCAGTCTG  
 CGTGATGACTTGTACAAGTATTTCTTTTCCATCATTCCACGGAGACCCATGACTGTCATGGATCCAA  
 AGCAGATGAATGTTGCTGCTGTATGGGCTGTTGTCGCTTATGTTGTTGCAGACATGGATGAAATGCT  
 GCCCAGGTCC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG213843 representing NM\_176073  
 Red=Cloning site Green=Tags(s)

MRSLLFFLIVHLLALGSGKAVFKNGVSQRTRFREIKEEIANVEDVAKAIINLAVYGKYQNRSYERLGLLVD  
 TVGPRLSGSKNLEKAIQIMYQNLQDGLNVHLEQVRIPHWERGEESAVMLEPRIHKMAILGLGSSIGTP  
 PGGITAEVLVVASFDELQRRASEARGKIIVYNQPYTYEKTQYRVQGAVEAAKVGAVASLIQSVASF  
 YSPHTGIQKYQDGVPKIPTACITVEDAEMMSRMSRGNKIVIHLEMGAKTYPDTSFNTVAEITGSMY  
 PEVVLVSGHLDSWDVGGALDDGGGAFISWEALSLVKDLGLRPKRTLRLVLWTAEEQGGIGASQYELHKA  
 NISKYSLVMEADSGTFLPTGLQFTGSDKARAIMKEVMNLLQPLNVTKVFVSNEGTDINFWIQAGVPGASL  
 RDDLYKYFFHHSHGDTMTVMDPKQMNVAAVWAVVAVVADMDMLPRS

**TRTRPLE** – GFP Tag – V

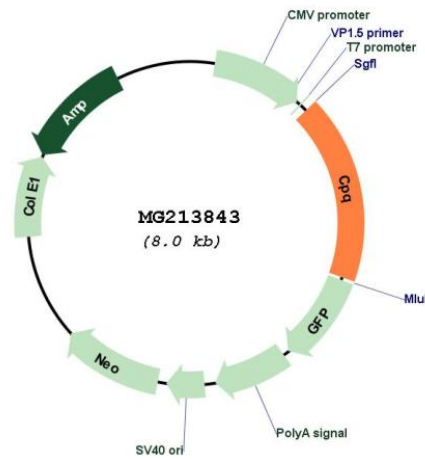
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_176073

ORF Size: 1410 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\\_176073.4](#), [NP\\_788262.1](#)

**RefSeq Size:** 1923 bp

**RefSeq ORF:** 1413 bp

**Locus ID:** 54381

**UniProt ID:** [Q9WVJ3](#)

**Cytogenetics:** 15 B3.1

**Gene Summary:** Carboxypeptidase that may play an important role in the hydrolysis of circulating peptides. Catalyzes the hydrolysis of dipeptides with unsubstituted terminals into amino acids. May play a role in the liberation of thyroxine hormone from its thyroglobulin (Tg) precursor (By similarity).[UniProtKB/Swiss-Prot Function]