

## Product datasheet for **MR226092**

### Cplx2 (NM\_009946) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cplx2 (NM\_009946) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Cplx2  
**Synonyms:** 921-L; AI413745; AW492120  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR226092 representing NM\_009946  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACTTCGTCATGAAGCAAGCCCTCGGAGGGGCCACCAAGGACATGGGAAGATGCTGGGGGAGAGG  
AGGAGAAGGACCCAGACGCACAGAAGAAGGAGGAGCGGCAGGAGGCCCTGAGGCAGCAGGAGGAAGA  
GCGCAAGCGAAACACGCCCGCATGGAAGCCGAGCGGAGAAGGTCGGCAGCAGATCCGAGACAAGTAT  
GGGCTGAAGAAGAAGGAAGAGAAAGAGGCAGAGGAGAAGGCAGCCCTGGAACAGCCCTGCGAGGGAAGCC  
TGACCCGACCCAAGAAGGCCATCCCTGCAGGCTGTGGGACGAGGAGGAGGAAGAGGAGAGCATCCT  
GGACACAGTGCTCAAATATCTGCCAGGGCCGCTGCAGGACATGTTCAAGAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR226092 representing NM\_009946  
Red=Cloning site Green=Tags(s)

MDFVMKQALGGATKDMGKMLGGEEKDPDAQKKEEERQEALRQQEEERKAKHARMEAREKVRQQIRDKY  
GLKKKEEKEAEEKAALQPCESLTPKKAIPAGCGDEEEEEESILDVTLKYLPGPLQDMFKK

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9049\\_h05.zip](https://cdn.origene.com/chromatograms/mm9049_h05.zip)

**Restriction Sites:** Sgfl-Mlul



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**Cloning Scheme:**


**ACCN:** NM\_009946

**ORF Size:** 405 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\\_009946.3](#), [NP\\_034076.1](#)

**RefSeq Size:** 4928 bp

**RefSeq ORF:** 405 bp

**Locus ID:** 12890

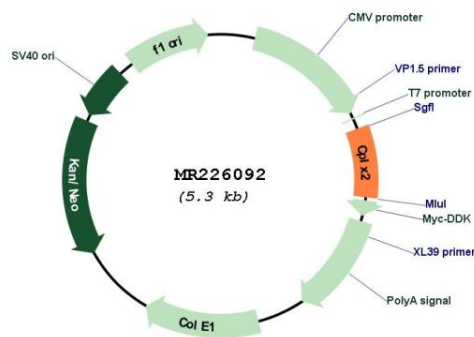
**UniProt ID:** [P84086](#)

**Cytogenetics:** 13 B1

**MW:** 15.4 kDa

**Gene Summary:** Negatively regulates the formation of synaptic vesicle clustering at active zone to the presynaptic membrane in postmitotic neurons. Positively regulates a late step in exocytosis of various cytoplasmic vesicles, such as synaptic vesicles and other secretory vesicles (PubMed:11163241, PubMed:23345244). Also involved in mast cell exocytosis (PubMed:11163241). Although not essential for development, seems critical for the acquisition of higher cognitive functions in the adult brain (PubMed:12915444). [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR226092