

Product datasheet for MG226092

Cplx2 (NM 009946) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Cplx2 (NM 009946) Mouse Tagged ORF Clone

Tag: TurboGFP

Symbol: Cplx2

Synonyms: 921-L; Al413745; AW492120

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >MG226092 representing NM_009946

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

GGACACAGTGCTCAAATATCTGCCAGGGCCGCTGCAGGACATGTTCAAGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG226092 representing NM_009946

Red=Cloning site Green=Tags(s)

MDFVMKQALGGATKDMGKMLGGEEEKDPDAQKKEEERQEALRQQEEERKAKHARMEAEREKVRQQIRDKY

GLKKKEEKEAEEKAALEQPCEGSLTRPKKAIPAGCGDEEEEEESILDTVLKYLPGPLQDMFKK

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

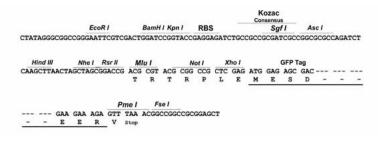
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

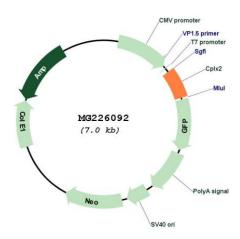


Cloning Scheme:





Plasmid Map:



ACCN: NM_009946

ORF Size: 402 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



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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: <u>NM 009946.3, NP 034076.1</u>

RefSeq Size: 4925 bp
RefSeq ORF: 405 bp
Locus ID: 12890
UniProt ID: P84086
Cytogenetics: 13 B1

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]