

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; AI413745; AW492120
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG226092 representing NM_009946
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACTTCGTCATGAAGCAAGCCCTCGGAGGGGCCACCAAGGACATGGGGAAGATGCTGGGGGAGAGG
AGGAGAAGGACCCAGACGCACAGAAGAAGGAGGAGGAGCGGCAGGAGGCCCTGAGGCAGCAGGAGGAAGA
GCGCAAGGCGAAACACGCCCGCATGGAAGCCGAGCGGAGAAAGTCCGGCAGCAGATCCGAGACAAGTAT
GGGCTGAAGAAGAAGGAAGAGAAAGAGGCAGGAGAAGGCAGCCCTGGAACAGCCCTGCGAGGGAAGCC
TGACCCGACCCAAGAAGCCATCCCTGCAGGCTGTGGGACGAGGAGGAGGAAGAGGAGAGCATCCT
GGACACAGTGCTCAAATATCTGCCAGGGCCGCTGCAGGACATGTTCAAGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG226092 representing NM_009946
Red=Cloning site Green=Tags(s)

MDFVMKQALGGATKDMGKMLGGEEKDPDAQKKEEERQEALRQQEEERKAKHARMEAREKVRQQIRDKY
GLKKKEEKAEEKAALQPCESLTPKKAIPAGCGDEEEEEESILDVTLKYLPGPLQDMFKK

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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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:	<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_009946.3 , NP_034076.1
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]