OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC210806

CPLX2 (NM_006650) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CPLX2 (NM_006650) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CPLX2
Synonyms:	921-L; CPX-2; CPX2; Hfb1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC210806 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACTTCGTCATGAAGCAGGCCCTTGGAGGGGCCACAAAGGACATGGGGAAGATGCTGGGGGGAGAGG
AGGAGAAGGACCCCGACGCGCAGAAAAAGGAGGAGGAGCGGCAGGAGGCGCTGCGGCAGCAGGAGGAGGA
GCGTAAGGCCAAGCACGCGCGCATGGAGGCGGAGCGGGAGAAGGTCCGGCAGCAGATCCGAGATAAGTAT
GGGCTGAAGAAGAAGGAGGAGAAGGAAGCAGAGGAGAAAGCAGCCCTGGAGCAGCCCTGCGAGGGGAGCC
TGACCCGGCCCAAGAAGGCCATCCCTGCGGGCTGCGGGGACGAGGAGGAGGAGGAAGAGGAGAGCATCCT
GGACACGGTGCTCAAATACCTGCCCGGGCCGCTGCAGGACATGTTCAAGAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC210806 protein sequence
Red=Cloning site Green=Tags(s)

MDFVMKQALGGATKDMGKMLGGEEEKDPDAQKKEEERQEALRQQEEERKAKHARMEAEREKVRQQIRDKY
GLKKKEEKEAEEKAALEQPCEGSLTRPKKAIPAGCGDEEEEEEESILDTVLKYLPGPLQDMFKK

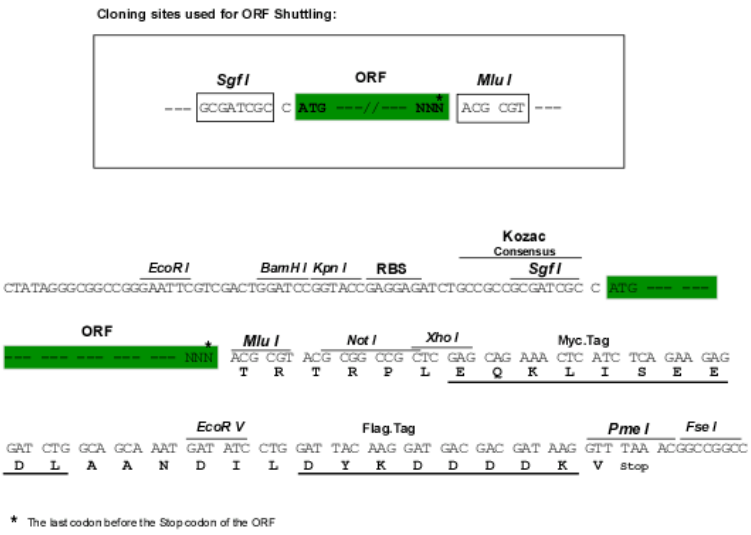
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6007_b11.zip

Restriction Sites: SgfI-MluI

View online »

Cloning Scheme:



ACCN: NM_006650

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

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_006650.4

RefSeq Size: 4726 bp

RefSeq ORF: 405 bp

Locus ID: 10814

UniProt ID: Q6PUV4

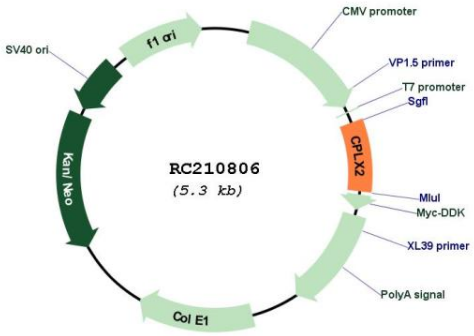
Cytogenetics: 5q35.2

Protein Families: Druggable Genome

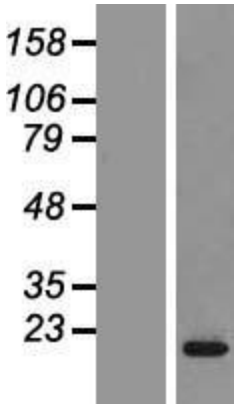
MW: 15.4 kDa

Gene Summary: Proteins encoded by the complexin/synaphin gene family are cytosolic proteins that function in synaptic vesicle exocytosis. These proteins bind syntaxin, part of the SNAP receptor. The protein product of this gene binds to the SNAP receptor complex and disrupts it, allowing transmitter release. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]

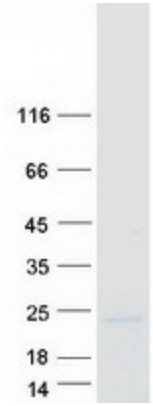
Product images:



Circular map for RC210806



Western blot validation of overexpression lysate (Cat# [LY416505]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210806 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CPLX2 protein (Cat# [TP310806]). The protein was produced from HEK293T cells transfected with CPLX2 cDNA clone (Cat# RC210806) using MegaTran 2.0 (Cat# [TT210002]).