

Product datasheet for **RG205172**

CPLX3 (NM_001030005) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CPLX3 (NM_001030005) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: CPLX3
Synonyms: CPX-III; CPXIII; Nbla11589
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG205172 representing NM_001030005
Red=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGTTCATGGTGAAGACCATGGTGGGCGGCCAGCTGAAGAACCTCACTGGGAGCCTGGGAGGCGGCG
AGGATAAGGGAGATGGGACAAGTCGGCAGCCGAAGCTCAGGGCATGAGCCGGGAGGAGTACGAGGAGTA
TCAGAAGCAACTCGTGAAGAGAAGATGGAGCGGGATGCACAGTTCACACAGAGGAAGGCAGAGCGGGCC
ACACTGCGGAGCCACTTCGAGACAAATACCGGCTACCCAAGAACGAGACAGATGAGAGCCAGATCCAGA
TGGCAGGTGGAGACGTGGAGCTGCCCGGAGCTGGCCAAGATGATCGAGGAGGACACAGAGGAGGAGGA
GGAGAAGGCCTCAGTCCTTGGGCAGCTGGCCAGCCTTCTGGCTTGAACCTGGGCTCACTCAAGGACAAG
GCCAGGCCACACTGGGGATCTCAAGCAATCAGCTGAGAAGTGTACGTCATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG205172 representing NM_001030005
Red=Cloning site **Green**=Tags(s)

MAFMVKTMVGGQLKNLTGSLGGGEDKGDGDKSAAEAQGMSREEYEEYQKQLVEEKMERDAQFTQRKAERA
TLRSHFRDKYRLPKNETDESIQIMAGGDVELPRELAKMIEEDTEEEEEKASVLGQLASLPLNLGSLKDK
AQATLGDLKQSAEKCHVM

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_001030005

ORF Size: 474 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_001030005.3](#)

RefSeq Size: 2012 bp

RefSeq ORF: 477 bp

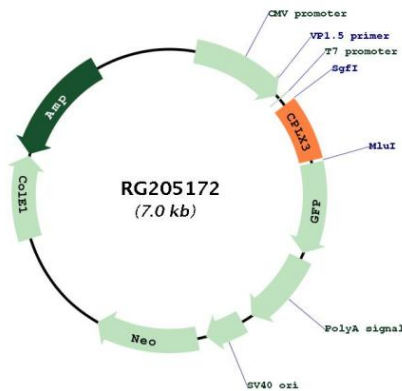
Locus ID: 594855

UniProt ID: [Q8WVH0](#)

Cytogenetics: 15q24.1

Gene Summary: Complexin that regulates SNARE protein complex-mediated synaptic vesicle fusion (By similarity). Required for the maintenance of synaptic ultrastructure in the adult retina (By similarity). Positively regulates synaptic transmission through synaptic vesicle availability and exocytosis of neurotransmitters at photoreceptor ribbon synapses in the retina (By similarity). Suppresses tonic photoreceptor activity and baseline 'noise' by suppression of Ca(2+) vesicle tonic release and the facilitation of evoked synchronous and asynchronous Ca(2+) vesicle release (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG205172