

Product datasheet for MR201244

Cplx4 (NM_145493) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cplx4 (NM_145493) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cplx4
Synonyms:	A930004D23Rik; CPXIV; Gm957
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR201244 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCTTTCTTTGTGAAAAATATGATAAGTAACCAGGTAAGAATTTAGGATTTGGAGGTGGTCTGAAG
 AAAAGAAAGAAGAAGGAGGCACCTCAGACCCCGCGCGGCTAAAGGGATGACTAGAGAGGAATACGAGGA
 ATACCAGAAGCAGATGATTGAAGAGAAGATGGAGAGAGATGCCGATTTACGCAGAAAAAGGCAGAGAGG
 GCGTGCCTACGAGTCCACCTCAGGGACAAGTACAGGCTTCCAAAGAGTGAATGGATGAGACACAAATCC
 AACTGGCTGGAGACGATGTGGACTTACCAGAAGATCTCCGAAAGATGGTAGATGAAGACCAAGATGAGGA
 AGAGGAGAAGGATTCTATCCTTGGGCAGCTGCAGAACCTCCAAAACATGGACTTGGATACCATTAAGAA
 AAGGCACAAGCCACCTTCACAGAAATCAAGCAGTCAGCAGAGCAGAAGTGTCTGTGATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>MR201244 protein sequence Red=Cloning site Green=Tags(s)
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MAFFVKNMISNQVKNLGFGGGSEEKKEEGGTS DPAAAKGMTREEYEEYQKQMIEEKMERDAAFTQKKAER
 ACLRVHLRDKYRLPKSEMDETQIQLAGDDVDLPEDLRKMVDEDDQDEEEKDSILGQLQNLQNMDLTIKE
 KAQATFTEIKQSAEQKCSVM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:	SgfI-MluI
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Cloning Scheme:



ACCN: NM_145493

ORF Size: 480 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_145493.1](#), [NP_663468.1](#)

RefSeq Size: 1767 bp

RefSeq ORF: 483 bp

Locus ID: 225644

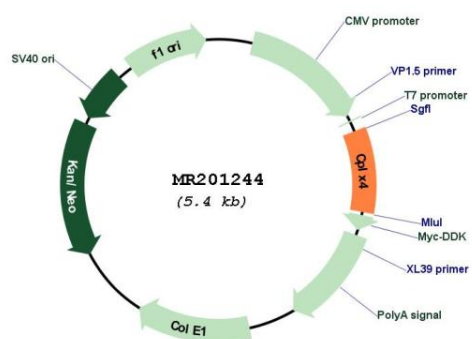
UniProt ID: Q80WM3

Cytogenetics: 18 E1

MW: 18.4 kDa

Gene Summary: Complexin that regulates SNARE protein complex-mediated synaptic vesicle fusion (PubMed:19386896). Required for the maintenance of synaptic ultrastructure in the adult retina (PubMed:19386896). Positively regulates synaptic transmission through synaptic vesicle availability and exocytosis of neurotransmitters at photoreceptor ribbon synapses in the retina (PubMed:15911881, PubMed:19386896, PubMed:27335398). 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 (PubMed:22694764, PubMed:27335398).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR201244