

Product datasheet for MC208315

Cplx1 (NM_007756) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cplx1 (NM_007756) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cplx1
Synonyms:	921-S
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC208315 representing NM_007756 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGTTCGTGATGAAACAAGCCCTGGGAGGGGCCACCAAGGACATGGGGAAGATGCTTGGGGTGATG
AGGAAAAGGACCCCGATGCTGCTAAGAAGGAGGAAGAGCGGCAGGAGGCACTGCGGCAGGCAGAGGAGGA
GCGCAAAGCAAAGTACGCCAAGATGGAGGCAGAACGTGAGGTCATGCGGCAGGGTATAAGAGACAAGTAT
GGCATCAAGAAGAAGGAGGAGCGTGAGGCTGAGGCTCAGGCAGCCATGGAGGCCAACTCGGAAGGCAGCC
TGACTCGACCCAAGAAGGCTATCCACCGGGCTGTGGCGATGAGCCAGAGGAGGAAGATGAGAGCATCCT
GGACACTGTCATCAAGTACCTGCCTGGGCCACTGCAGGACATGTTCAAGAAG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_007756
Insert Size:	405 bp



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OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_007756.3](#), [NP_031782.3](#)

RefSeq Size: 2217 bp

RefSeq ORF: 405 bp

Locus ID: 12889

UniProt ID: [P63040](#)

Cytogenetics: 5 F

Gene Summary: Positively regulates a late step in exocytosis of various cytoplasmic vesicles, such as synaptic vesicles and other secretory vesicles (PubMed:23345244). Organizes the SNAREs into a cross-linked zigzag topology that, when interposed between the vesicle and plasma membranes, is incompatible with fusion, thereby preventing SNAREs from releasing neurotransmitters until an action potential arrives at the synapse (PubMed:23345244). Also involved in glucose-induced secretion of insulin by pancreatic beta-cells. Essential for motor behavior (PubMed:15126625, PubMed:16000319).[UniProtKB/Swiss-Prot Function]