

Product datasheet for **RC205309**

CPNE6 (NM_006032) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CPNE6 (NM_006032) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CPNE6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC205309 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**

ATGTCGGACCCCTGAGATGGGATGGGTGCCTGAGCCCCAAACCATGACGCTGGGGCCTCTCGGGTGGAGC
 TGGGGGTGCTCCTGCCATGGCCTCCTGGACCGGGACACACTCACCAAACCCACCCCTGCGTGCTGCTCAA
 GCTCTACTCTGATGAGCAGTGGGTGGAGGTAGAGCGCACAGAGGTGCTTCGCTCCTGTTCCAGCCCTGTC
 TTCTCCCGGGTGTGGCCCTTGAGTATTTTTTTGAGGAGAAGCAGCCCGTGCAGTTCACGTGTTCCGATG
 CCGAGGACGGAGCCACCAGCCCCGAAATGATACCTTCTCGGCTCTACGGAGTGACCTTGGGCCAGAT
 TGTGTCAAAACCAAGGTCACTAAGCCATTATTGCTGAAGAATGGGAAGACTGCGGGCAAGTCCACCATC
 ACGATCGTGGCCGAGGAGGTATCAGGCACAAACGACTATGTGCAACTCACCTTCAGAGCCTACAAGCTGG
 ACAACAAGGATCTGTTCCAGCAAGTCTGACCTTTTCATGGAAATCTATAAGACCAACGAGGACCAAGTGA
 TCAGCTGGTCTGGAGAACTGAGGTGGTGAAGAACAACCTGAACCCAGCTGGGAGCCGTTCCGCCTGTCC
 CTGCATTCCCTATGCAGCTGTGATGTTACCGACCTCTCAAGTTCCTGGTGTATGACTATGACTCCAGTG
 GGAAGCATGACTTCATCGGCGAGTTCACCAGCACTTTCAGGAGATGCAGGAAGGACGGCAAACCTGG
 GCAGGAGATGAGTGGGACTGTATCAACCCCAAGTATCGGGACAAGAAGAAGATTACAAGAGCTCAGGG
 ACGGTAGTGCTGGCCAGTGCACGGTGGAGAAGGTGCACACCTTCCTGGATTACATCATGGGTGGCTGCC
 AGATCAGCTTCACGGTGGCCATTGACTTCACTGCCTCCAATGGGACCCGAGGAGCAGCCAGTCCCTGCA
 CTGCCTCAGTCCCGACAGCCCAACCACTACCTGCAGGCCCTGCGTGCAGTGGGAGGCATCTGCCAGGAC
 TATGACAGTGATAAGCGGTTCCAGCTTTTGGCTTTGGGGCTCGAATCCCCCAACTTCGAGGTGTCCC
 ATGACTTTTGCTATCAACTTTGACCCGAAAACTCCTGAATGTGAAGAGATCTCAGGGGTATCGCCTCCTA
 CCGTCGTTGCCTGCCCCAGATCCAGCTCTACGGCCCCACCAATGTGGCCCCCATCATCAACCGTGTGGCT
 GAGCCGGCCAGCGGAGCAGAGCACCGGCCAAGCCACGAAGTACTCGGTGCTGCTGGTGTCTACTGACG
 GTGTGGTGAAGCAGATGGCTGAGACTCGCACTGCTATCGTGCCTGCCCTCCGCCTGCCATGTCCATCAT
 CATCGTAGGCGTGGGCAATGCTGACTTCTCTGACATGCGGCTGCTGGATGGCGACGACGGCCCTTGCGC
 TGCCCCGAGGGGTGCCTGCAGCCGAGACATTGTCCAGTTCTGTCCTTCCGAGACTTCAAGGATGCTG
 CCCCCTCTGACTCGCAAGTGTGCTGCTGAGGTGCCACGGCAGGTGGTGGAGTACTACGCCAGCCA
 GGGCATCAGCCCTGGGGCTCCAGGCCCTGCACACTGGCTACGACTCCAGCCCTAGCCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC205309 protein sequence
 Red=Cloning site Green=Tags(s)

MSDPEMGWVPEPQTMTLGASRVELRVSCHLLDRDTLTKPHPCVLLKLYSDEQWVEVERTEVLRSCSSPV
 FSRVLALLEYFFEEKQPQVFHVFDAEDGATSPRNDTFLGSTECTLGQIVSQTKVTKPLLLKNGKTAGKSTI
 TIVAAEEVSGTNDYVQLTFRAYKLDNKDLFSKSDPFMEIYKTNEQSDQLVWRTEVVKNNLNPSWEPFRLS
 LHSLCSCDVHRPLKFLVYDYDSSGKHDFIGFTSTFQEMQEGTANPGQEMQWDCINPKYRDKKKNYKSSG
 TVVLAQCTVEKVHTFLDYIMGGCQISFTVAIDFTASNGDPRSSQSLHCLSPRQPNHYLQALRAVGIGICQD
 YSDSKRFPAGFGGARIPPNEFVSHDFAINFDPENPECEEISGVIASYYRCLPQIQLYGPTNVAPIINRVA
 EPAQREQSTGQATKYSVLLVLTGTVSDMAETRTAIVRASRLPMSIIIVGVGNADFSDMRLLDGGDGLR
 CPRGVPAARDIVQFVPRDFKDAAPSALAKCVLAEPVQVVEYYASQGISPGAPRPCTLATTPSPSP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6138_a05.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_006032

ORF Size: 1671 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_006032.4](#)

RefSeq Size: 2235 bp

RefSeq ORF: 1674 bp

Locus ID: 9362

UniProt ID: [O95741](#)

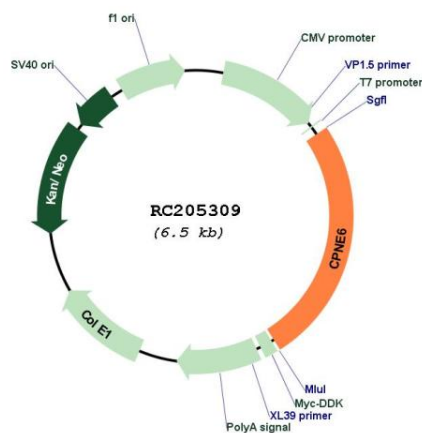
Cytogenetics: 14q11.2

Domains: C2, VWA

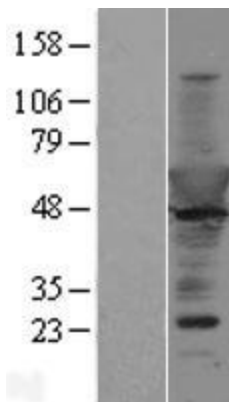
MW: 62 kDa

Gene Summary: This gene encodes a member of the copine family. Members of this family are calcium-dependent, phospholipid-binding proteins with C2 domains, two calcium- and phospholipid-binding domains. Through their domain structure and lipid binding capabilities, these proteins may play a role in membrane trafficking. This protein is thought to be brain-specific and has a domain structure of two N-terminal C2 domains and one von Willebrand factor A domain. It may have a role in synaptic plasticity. [provided by RefSeq, Jul 2013]

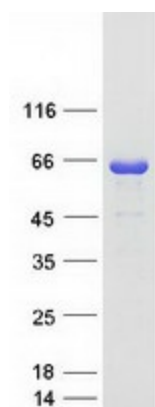
Product images:



Circular map for RC205309



Western blot validation of overexpression lysate (Cat# [LY401820]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205309 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CPNE6 protein (Cat# [TP305309]). The protein was produced from HEK293T cells transfected with CPNE6 cDNA clone (Cat# RC205309) using MegaTran 2.0 (Cat# [TT210002]).