

Product datasheet for **RG205309**

CPNE6 (NM_006032) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CPNE6 (NM_006032) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CPNE6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG205309 representing NM_006032
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGTCGGACCCCTGAGATGGGATGGGTGCCTGAGCCCCAAACCATGACGCTGGGGGCTCTCGGGTGGAGC
 TCGGGGTGCTCCTGCCATGGCCTCCTGGACCGGGACACACTCACCAAACCCACCCCTGCGTGCTGCTCAA
 GCTCTACTCTGATGAGCAGTGGGTGGAGGTAGAGCGCACAGAGGTGCTTCGCTCCTGTTCCAGCCCTGTC
 TTCTCCCGGGTGTGGCCCTTGAGTATTTTTTTGAGGAGAAGCAGCCCGTGCAGTTCACAGTGTTCGATG
 CCGAGGACGGAGCCACCAGCCCCGAAATGATACCTTCTCGGCTCTACGGAGTGACCTTGGGCCAGAT
 TGTGTCAAAACCAAGGTCACTAAGCCATTATTGCTGAAGAATGGGAAGACTGCGGGCAAGTCCACCATC
 ACGATCGTGGCCGAGGAGGTATCAGGCACAAACGACTATGTGCAACTCACCTTCAGAGCCTACAAGCTGG
 ACAACAAGGATCTGTTCCAGCAAGTCTGACCTTTTCATGGAAATCTATAAGACCAACGAGGACCAAGTGA
 TCAGCTGGTCTGGAGAACTGAGGTGGTGAAGAACAACCTGAACCCAGCTGGGAGCCGTTCCGCCTGTCC
 CTGCATTCCCTATGCAGCTGTGATGTTACCGACCTCTCAAGTTCCTGGTGTATGACTATGACTCCAGTG
 GGAAGCATGACTTCATCGGCGAGTTCACCAGCACTTTCAGGAGATGCAGGAAGGACGGCAAACCTGG
 GCAGGAGATGCACTGGGACTGTATCAACCCCAAGTATCGGGACAAGAAGAAGATTACAAGAGCTCAGGG
 ACGGTAGTGCTGGCCAGTGCACGGTGGAGAAGGTGCACACCTTCCTGGATTACATCATGGGTGGCTGCC
 AGATCAGCTTCACGGTGGCCATTGACTTCACTGCCTCCAATGGGACCCGAGGAGCAGCCAGTCCCTGCA
 CTGCCTCAGTCCCGACAGCCCAACCACTACCTGCAGGCCCTGCGTGCAGTGGGAGGCATCTGCCAGGAC
 TATGACAGTGATAAGCGGTTCCAGCTTTTGGCTTTGGGGCTCGAATCCCCCCTCACTTCAGAGTGTCCC
 ATGACTTTTGCTATCAACTTTGACCCGAAAAATCCTGAATGTGAAGAGATCTCAGGGGTATCGCCTCCTA
 CCGTCGTTGCCTGCCCCAGATCCAGCTCTACGGCCCCACCAATGTGGCCCCCATCATCAACCGTGTGGCT
 GAGCCGGCCAGCGGAGCAGAGCACCGGCCAAGCCACGAAGTACTCGGTGCTGCTGGTGTCTCACTGACG
 GTGTGGTGGAGCAGATGGCTGAGACTCGCACTGCTATCGTGCCTGCCCTCCGCCTGCCATGTCCATCAT
 CATCGTAGGCGTGGGCAATGCTGACTTCTCTGACATGCGGCTGCTGGATGGCGACGACGGCCCTTGCGC
 TGCCCCGAGGGGTGCCTGCAGCCGAGACATTGTCCAGTTCTGTCCTTCCGAGACTTCAAGGATGCTG
 CCCCCTCTGCACTCGCAAGTGTGCTGGCTGAGGTGCCACGGCAGGTGGTGGAGTACTACGCCAGCCA
 GGGCATCAGCCCTGGGGCTCCAGGCCCTGCACACTGGCTACGACTCCAGCCCTAGCCCC

ACGCGTACGCGGCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG205309 representing NM_006032
 Red=Cloning site Green=Tags(s)

MSDPEMGWVPEPQTMTLGASRVELRVSCHGLLDRDTLTKPHPCVLLKLYSDEQWVEVERTEVLRSCSSPV
 FSRVLALEYFFEEKQPVQFHVFDAEDGATSPRNDTFLGSTECTLGQIVSQTKVTKPLLLKNGKTAGKSTI
 TIVAAEEVSGTNDYVQLTFRAYKLDNKDLFSKSDPFMEIYKTNEDQSDQLVWRTEVVKNNLNPSWEPFRLS
 LHSLCSCDVHRPLKFLVYDYDSSGKHDFIGFTSTFQEMQEGTANPGQEMQWDCINPKYRDKKKNYKSSG
 TVVLAQCTVEKVHTFLDYIMGGCQISFTVAIDFTASNGDPRSSQSLHCLSPRQPNHYLQALRAVGIGICQD
 YSDSKRFPAGFGGARIPPNFVSHDFAINFDPENPECEEISGVIASYYRCLPQIQLYGPTNVAPIINRVA
 EPAQREQSTGQATKYSVLLVLTGTVSDMAETRTAIVRASRLPMSIIIVGVGNADFSDMRLLDGGDGPLR
 CPRGVPAARDIVQFVPRDFKDAAPSALAKCVLAIEVPRQVVEYYASQGISPAPRPCTLATTPSPSP

TRTRPLE – GFP Tag – V

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_006032.2](#), [NP_006023.1](#)

RefSeq Size: 2018 bp

RefSeq ORF: 1674 bp

Locus ID: 9362

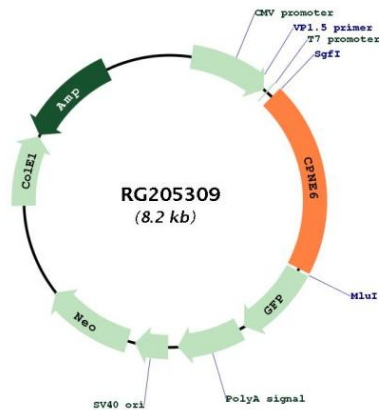
UniProt ID: [O95741](#)

Cytogenetics: 14q11.2

Domains: C2, VWA

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 RG205309