

Product datasheet for **SC116368**

CPNE6 (NM_006032) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CPNE6 (NM_006032) Human Untagged Clone
Tag:	Tag Free
Symbol:	CPNE6
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC116368 sequence for NM_006032 edited (data generated by NextGen Sequencing)

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ATGTGGGACCTGAGATGGGATGGGTGCCTGAGCCCCAACCATGACGCTGGGGGCTCT
CGGGTGGAGCTGCGGGTGTCTGCCATGGCCTCTGGACCGGGACACACTACCAAACCC
CACCCCTGCGTGTCTCAAGCTCTACTCTGATGAGCAGTGGGTGGAGGTAGAGCGCACA
GAGGTGCTTCGCTCCTGTTCCAGCCCTGCTTCTCCGGGTGCTGGCCCTTGAGTATTTT
TTTGAGGAGAAGCAGCCCTGCAGTTCACGTGTTTCGATGCCGAGGACGGAGCCACCAGC
CCCCGAAATGATACCTTCTCGGCTCTACGGAGTGCACCTTGGGCCAGATTGTGTCAAA
ACCAAGGTCACTAAGCCATTATTGCTGAAGAATGGGAAGACTGCGGGCAAGTCCACCATC
ACGATCGTGGCCGAGGAGGTATCAGGCACAAACGACTATGTGCAACTCACCTTCAGAGCC
TACAAGCTGGACAACAAGGATCTGTTTCAGCAAGTCTGACCTTTTCATGGAAATCTATAAG
ACCAACGAGGACCAAGTATCAGCTCGTCTGGAGAACTGAGGTGGTGAAGAACAACCTG
AACCCAGCTGGGAGCCGTTCCGCCTGTCCTGCATTCCCTATGCAGCTGTGATGTTTAC
CGACCTCTCAAGTTCCTGGTGTATGACTATGACTCCAGTGGGAAGCATGACTTCATCGGC
GAGTTCACCCAGCACTTTCCAGGAGATGCAGGAAGGGACGCAAAACCTGGGCAGGAGATG
CAGTGGGACTGTATCAACCCCAAGTATCGGGACAAGAAGAAGTATACAAGAGCTCAGGG
ACGGTAGTGTCTGGCCAGTGCACGGTGGAGAAGGTGCACACCTTCTGGATTACATCATG
GGTGGCTGCCAGATCAGCTTCACGGTGGCCATCGACTTCACCGCTCCAATGGGGACCCG
AGGAGCAGCCAGTCCCTGCATGCTCAGTCCCGACAGCCCAACCACTACCTGCAGGCC
CTGCGTGCAGTGGGAGGCATCTGCCAGGACTATGACAGTGATAAGCGGTTCCAGCTTTT
GGCTTTGGGGCTCGAATCCCCCAACTTCGAGGTGTCCATGACTTTGCTATCACTTT
GACCCGGAATCCTGAATGTGAAGAGATCTCAGGGGTGTCGCTCCTACCGTCGTTGC
CTGCCCCAGATCCAGCTCTACGGCCCCACCAATGTGGCCCCATCATCAACCGTGGGCT
GAGCCGGGCCAGCGGGAGCAGAGCACCGGCCAAGCCACGAAGTACTCGGTGCTGCTGGTG
CTCACTGACGGTGTGGTGAAGCATGGCTGAGACTCGCACTGCTATCGTGCGTGCCTCC
CGCCTGCCATGTCCATCATCATCGTAGGCGTGGGCAATGCTGACTTCTGACATGCGG
CTGCTGGATGGGACGACGGCCCTTGCCTGCCCCGAGGGGTGCCTGCAGCCGAGAC
ATTGTCCAGTTCGTGCCCTTCCGAGACTCAAGGATGCTGCCCCCTGCACTCGCCAAG
TGTGCTCTGGCTGAGGTGCCACGGCAGGTGGTGGAGTACTACGCCAGCCAGGGCATCAGC
CCTGGGGCTCCCAGGCCCTGCACACTGGCTACGACTCCCAGCCCTAGCCCGTGA
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Clone variation with respect to NM_006032.2
567 g=>c;933 t=>c;942 t=>c

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006032 unedited

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NGGTTAGAAATTTGTAATACGACTCACTATAGGGCGGCCGGAATTTCGGCACGAGGGCC
GGAGCTGGAGCCGGCGCCAGCGGCTGGAGCAGCAAGGGAGTCAGGGCCAGGGCCAGAGAG
CCGGAGAGAGGAGCCCCGACCGAGAGCCAGTGACATGTCGGACCTGAGATGGGATGG
GTGCTGAGCCCCAACCATGACGCTGGGGGCTCTCGGGTGGAGCTGCGGGTGTCTGC
CATGGCCTCCTGGACCGGACACACTACCAAACCCACCCCTGCGTGCTGCTCAAGCTC
TACTCTGATGAGCAGTGGGTGGAGGTAGAGCGCACAGAGGTGCTTCGCTCCTGTTCCAGC
CCTGTCTTCTCCCGGTGCTGGCCCTTGAGTATTTTTTTGAGGAGAAGCAGCCCCCTGCAG
TTCCACGTGTTTCGATGCCGAGGACGGAGCCACCAGCCCCGAAATGATACCTTCTCGGC
TCTACGGAGTGCACCTTGGGCCAGATTGTGTACAAACCAAGGTCACTAAGCCATTATTG
CTGAAGAATGGGAAGACTGCGGGCAAGTCCACCATCACGATCGTGGCCGAGGAGGTATCA
GGCACAACGACTATGTGCAACTCACCTTCAGAGCCTACAAGCTGGACAACAAGGATCTG
TTCAGCAAGTCTGACCTTTTCATGGAAATCTATAAGACCAACGAGGACCAAGTATCAG
CTCGTCTGGAGAAGTGAAGTGGTGAAGAACAACCTGAACCCAGCTGGGAGCCGTTCCGC
CTGTCCCTGCATTNCCTATGCAGCTGTGATGTTACCGACCTCTCAAGTCTGGTGTATG
ACTATGACTCCAGTGGGAAGCATGACTNCATCGGCGAGTTCACCACACTTTCACGAGAG
CAGGC
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_006032 unedited GACAGTTCCTTCTTTTATAATGGGCTAGNAAAGTCAGATCACCAAGGAAGTCACTGAG GGGCCACAGCATTGAAGGGTATGGGGTTTGGAGAGATAGGAGCAGGACCCACCACTCACG TCCAGAACCCAGGGGGCACACCTGGTCCAAGAGGTGGAGGCATTGGTCACTGGAGTCACG AGGGTCAGGACAGGCACTGAGAGGCTGAGGGAGTGTGGTCCGGAGGGAGGCAGTCACGG GCTAGGGCTGGGAGTGTAGCCAGTGTGCAGGGCCTGGGAGCCCCAGGGCTGATGCCCTG GCTGGCGTAGTACTCCACCACCTGCCGTGGCACCTCAGCCAGGACACACTTGGCGAGTGC AGAGGGGGCAGCATCCTTGAAGTCTCGGAAGGGCACGAAGTGGACAATGTCTCGGGCTGC AGGCACCCCTCGGGGGCAGCGCAAGGGGCCGTCTCGCCATCCAGCAGCCGCATGTCAGA GAAGTCAGCATTGCCACGCCTACGATGATGATGGACATGGGCAGGCGGGAGGCACGCAC GATAGCAGTGCAGTCTCAGCCATGTGCTCACCACACCGTCAGTGAGCACCAGCAGCAC CGAGTACTTCGTGGCTTGGCCGGTGTCTGCTCCCGCTGGGCCCGCTCAGCCACACGGTT GATGATGGGGGCCACATNTGTGGGGCCGTANAGCTGGATCTGGGGCAGGCAACGACGGTA GGAGGCGATGACCCCTGAGATCTCTTCACATTACAGGATTTTCCGGGTCAAAGTTGATAGC AAAGTCATGGGACACCTCGAAGTTGGGGGGGATTTAGCCCCAAAGCTGGGAAC CGGTTTCACTGTATAGTCTGGCAGATGCCTNCCATGCACCCAGGGCCTGCAAGTATTG GTTGGGCTTCCGGGACTTGAGCAATGCAAGGCCTGGTTGCTTCTCGGTCCCATTGNA GGCCGGGAAATCATTGCCCACTTGAAGTATGATCTGCCGCCACCCTGATTAT
Restriction Sites:	NotI-NotI
ACCN:	NM_006032
Insert Size:	2240 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_006032.2</u> , <u>NP_006023.1</u>
RefSeq Size:	2018 bp
RefSeq ORF:	1674 bp
Locus ID:	9362
UniProt ID:	<u>O95741</u>
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]

Transcript Variant: This variant (2) differs in the 5' UTR and 5' coding region and initiates translation at a downstream start codon,, compared to variant 1. The encoded isoform (2) has a shorter N-terminus than isoform 1.