

Product datasheet for **SC117680**

CPNE1 (NM_003915) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CPNE1 (NM_003915) Human Untagged Clone
Tag:	Tag Free
Symbol:	CPNE1
Synonyms:	COPN1; CPN1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_003915, the custom clone sequence may differ by one or more nucleotides

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ATGAAGATGATGCACATGGCCACTGCGTGACCTTGGTTACAGCTGTCCATTTCTGTGACCATCTCATTG
ACAAGGACATCGGCTCCAAGTCTGACCCACTCTGCGTCTTTTACAGGATGTGGGAGGGGCGAGCTGGGC
TGAGCTTGGCCGGACTGAACGGGTGCGGAAGTCTCAAGCCCTGAGTTCTCCAAGACTCTACAGCTTGAG
TACCGCTTTGAGACAGTCCAGAAGCTACGCTTTGGAATCTATGACATAGACAACAAGACGCCAGAGCTGA
GGGATGATGACTTCTAGGGGTGCTGAGTGTTCCTAGGACAGATTGTGTCCAGCCAGGTACTGACTCT
CCCCTTGATGCTGAAGCCTGAAAACTGCTGGGCGGGGACCATCACGGTCTCAGCTCAGGAATTAAGG
GACAATCGTGTAGTAACCATGGAGGTAGAGGCCAGAACTAGATAAGAAGGACTTCTGGGAAAAATCAG
ATCCATTTCTGGAGTCTTCCGCCAGGGTGTGGGAAATGGCACCTGGTGTACAGATCTGAGGTCAACAA
GAACAACCTGAACCTACATGGAAGCGTTTCTCAGTCCCCGTTTCCAGATTTCTGTGGTGGGAACCCAGC
ACACCCATCCAGGTGCAATGCTCCGATTATGACAGTGACGGGTACATGATCTCATCGGTACCTTCCACA
CCAGCTTGGCCAGCTGCAGGCAGTCCCGCTGAGTTTGAATGCATCCACCCTGAGAAGCAGCAGAAAAA
GAAAAGCTACAAGAACTCTGAACTATCCGTGTCAAGATTTGTCCGGTAGAAACAGAGTACTCCTTTCTG
GACTATGTGATGGGAGGCTGTCAGATCAACTTCACTGTGGGCGTGGACTTCACTGGCTCCAATGGAGACC
CCTCTCACCTGACTCCCTACACTACCTGAGTCCAACAGGGGTCAATGAGTACCTGATGGCACTGTGGAG
TGTGGGACGCGTGGTTCAGGACTATGACTCAGACAAGCTGTTCCCTGCATTTGGATTTGGGGCCAGGT
CCCCCTGACTGGCAGGTCTCGCATGAATTTGCCTTGAATTTCAACCCAGTAACCCCTACTGTGCAGGCA
TCCAGGGCATTGTGGATGCTACCGCAAGCCCTGCCCAAGTTCGCCTCTATGGCCCTACCAACTTTGC
ACCCATCATCAACCATGTGGCCAGGTTTGCAGCCAGGCTGCACATCAGGGGACTGCCTCGCAACTTTC
ATGCTGTGCTGCTGACTGATGGTGTGTGACGGATGTGGAAGCCACAGTGTGGTGTGGTGTGGTGTGGT
CGAACCTGCCCATGTGAGTATGATGTTGGGTGTGGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGT
CGCTGATGGTGGACCCCTGCATACACGTTCTGGGAGGCTGTGCCCGGACATTGTGCAGTTTGTACCC
TACCGCCGGTTCAGAATGCCCTCGGGAGGCTTGGCACAGACCGTGTGCGAGAAGTGCCACACAAC
TGGTCTCATACTCAGGGCCAGGGTGGGCCCGCTCAAGCCACTTCCACCCTCAGCCAAGGATCTGCG
ACAGGCCCCCGAGGCTAG
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003915 unedited

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TTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCGAAGGAGGTGGTGG
CTGCGTTGGGCTCCGGGAAGCCGTTTCGGGCTGGGGCTGTGCGCCGCGGGGCGGAGGCACT
CGCGCGGGGGGTAATTCGGGGTCTGGGTCTGTTGCCGCGCAGCTTTCCCGATGGCCCA
CTGCGTGACCTTGGTTCAGCTGTCCATTTCTGTGACCATCTCATTGACAAGGACATCGG
CTCCAAGTCTGACCCACTCTGCGTCTTTTACAGGATGTGGGAGGGGGCAGCTGGGCTGA
GCTTGGCCGGACTGAACGGGTGCGGAAGTCTCAAGCCCTGAGTTCTCCAAGACTCTACA
GCTTGAGTACCGCTTTGAGACAGTCCAGAAGCTACGCTTTGGAATCTATGACATAGACAA
CAAGACGCCAGAGCTGAGGGATGATGACTTCTAGGGGTGCTGAGTGTTCCTAGGACA
GATTGTGTCCAGCCAGGTAAGTACTGACTCTCCCTTGTGCTGAAGCCTGNAAAACCTGCTGG
GCGGNGGACCATCACGGTCTCAGCTCAGGAATTAAGGACAATCGTGTAGTAACCATGGA
GGTAGAGGCCAGAACTAATAAGAAGGACTTCTGNGAAAAATCAGATCCATTTCTGGAG
TTCTTCCGCCAGGGGTGATGGGAAATGGCACCTGGTGTACAGATCCTGAGGTCAACAA
ACACCCGTAACCTCATGGGAAGCGTTTCTCAGTCCCCGTTAGCATTTTTTGGTGGGTGG
GGGACCCAGCCACACCCATTCCANNGTGCATGCTCCGATNATGACAAGGGGACCGGTGAC
ATGATTCTTATCGGGTACCTTTACACCCAGCTGGCCCCACTGCAAGCAGNCCCGGGTTT
TGTGATTTTGAATGCCATCCACCCTGGGAAGCA
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_003915 unedited GCCGCAATCTATAGTCGAGTTTTTTTTTTTTTTTTTTTTTGGTCTTCACTGGTCTTTATTGAA TGAGGGTTGTCAGGAGCAAAGTGGGATCAAGAGCAGCAAAGCAGAAACAAGTATAAAAG TATCAAAAATACAAAGTGTAGCACTGAAGAGAGTGAGAAAGTTGGGTTGTGGCCCAT AGGGACCTCTGGGACACAGGATTGAGGACTTGCCACAGCCTCCAAGGGAACTAAGCCTG GGGGGCCTGTGCAAGATCCTTGGCTGAAGGTGGAAGTGGCTTGAGCGGGGCCAACCTG GGCCCTGAAGTATGAGACCAGTTGTGTGGGCACCTCTGCGAGCACGGTCTGTGCCAATGC CTCCCAGGGGCATTCTGGAACCGGCGGTAGGGTACAAACTGCACAATGTCGCGGGCAGC AGCCTGCCATAACGTGTATGCAGGGTCCACCATCAGCGTCCAGCTGCTCCATGGCCTC AAAGTCAGCACCCACACCCACAATGATCACTGACATGGGCAGGTTTCGAGGCACGCAC CACAGCCTCACGTGTGGCTTCCACATCCGTACAGCACCATCAGTCAGCAGCATCAGCAT GAAGTATTGCGATGCAGTCCCCTGATGTGCAGCCTGAGCTGCAAACCTGGCCACATGGTT GATGATAGGTGCAAAAGTTGTAAGGCCATATAGGCGAACTTTGGGCAAGGCTTGCCNGTA TGCATCCACAATGCCCTGNATGCCTGCACAGTAAGGGGTTACTCGGGTTNGAAATCAA AGGCANATTCATGCGATACCTGCCAGTCAGGGGGAACCTGNGCCCAATCCAATGCANGG AACAACTGTCTGAGTCATATCCTGAACACGCTGCCCAACTCCACANGGCATCNACTACTC ATTGACCCTGTTGACTCAGTAATGTAGGGATCCAGTGAGGAGGGTCTCCTTGNAGCAAC GAATCCAGCCACAT
Restriction Sites:	NotI-NotI
ACCN:	NM_003915
Insert Size:	2050 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:	<ol style="list-style-type: none"> 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_003915.2</u> , <u>NP_003906.1</u>
RefSeq Size:	2207 bp
RefSeq ORF:	1614 bp
Locus ID:	8904
UniProt ID:	<u>Q99829</u>
Cytogenetics:	20q11.22
Domains:	C2, VWA

Gene Summary:

Calcium-dependent membrane-binding proteins may regulate molecular events at the interface of the cell membrane and cytoplasm. This gene encodes a calcium-dependent protein that also contains two N-terminal type II C2 domains and an integrin A domain-like sequence in the C-terminus. However, the encoded protein does not contain a predicted signal sequence or transmembrane domains. This protein has a broad tissue distribution and it may function in membrane trafficking. This gene and the gene for RNA binding motif protein 12 overlap at map location 20q11.21. Alternate splicing results in multiple transcript variants encoding different proteins. [provided by RefSeq, Aug 2008]

Transcript Variant: This variant (3) uses a different exon in its 5' UTR and 5' coding region, compared to variant 1. It encodes isoform b, which has a longer and distinct N-terminus, compared to isoform a.