

## Product datasheet for **RG229279**

### CPNE1 (NM\_003915) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CPNE1 (NM_003915) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CPNE1
Synonyms:	COPN1; CPN1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG229279 representing NM\_003915  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAGATGATGCACATGGCCACTGCGTGACCTTGTTTCAGCTGTCCATTTCTGTGACCATCTCATTG  
 ACAAGGACATCGGCTCCAAGTCTGACCCACTCTGCGTCCTTTTACAGGATGTGGGAGGGGCGAGCTGGC  
 TGAGCTTGGCCGACTGAACGGGTGCGGAACTGCTCAAGCCCTGAGTTCTCCAAGACTCTACAGCTTGAG  
 TACCGCTTTGAGACAGTCCAGAAGCTACGCTTTGGAATCTATGACATAGACAACAAGACGCCAGAGCTGA  
 GGGATGATGACTTCTAGGGGTGCTGAGTGTTCCCTAGGACAGATTGTGTCCAGCCAGGTACTGACTCT  
 CCCCTTGATGCTGAAGCCTGGAAAACCTGCTGGGCGGGGACCATCACGGTCTCAGCTCAGGAATTAAG  
 GACAATCGTGTAGTAACCATGGAGGTAGAGGCCAGAACTAGATAAGAAGGACTTCTGGGAAAATCAG  
 ATCCATTTCTGGAGTTCTCCGCCAGGGTATGGGAAATGGCACCTGGTGTACAGATCTGAGGTCATCAA  
 GAACAACCTGAACCTACATGGAAGCGTTTCTCAGTCCCGTTTCCAGATTCTGTGGTGGGAACCCAGC  
 ACACCCATCCAGGTGCAATGCTCCGATTATGACAGTGACGGTGCATGATCTCATCGGTACCTCCACA  
 CCAGCTTGGCCAGCTGCAGGCAGTCCCGGCTGAGTTTGAATGCATCCACCTGAGAAGCAGCAGAAAA  
 GAAAAGCTACAAGAACTCTGAACTATCCGTGTCAAGATTTGTGCGGTAGAAAACAGAGTACTCCTTTCTG  
 GACTATGTGATGGGAGGCTGTCAGATCAACTTCACTGTGGGCGTGGACTTCACTGGCTCCAATGGAGACC  
 CCTCTCACCTGACTCCCTACACTACCTGAGTCCAACAGGGGTCAATGAGTACCTGATGGCACTGTGGAG  
 TGTGGGACGCGTGGTTCAGGACTATGACTCAGACAAGCTGTTCCCTGCATTTGGATTTGGGGCCAGGTT  
 CCCCTGACTGGCAGGTCTCGCATGAATTTGCCTTGAATTTCAACCCAGTAACCCCTACTGTGCAGGCA  
 TCCAGGGCATTGTGGATGCCTACCGCAAGCCCTGCCCAAGTTCCGCTCTATGGCCCTACCAACTTTC  
 ACCCATCATCAACCATGTGGCCAGGTTTGCAGCCAGGCTGCACATCAGGGGACTGCCTCGCAATACTTC  
 ATGCTGTTGCTGCTGACTGATGGTGTGTGACGGATGTGAAGCCACACGTGAGGCTGTGGTGCCTGCCT  
 CGAACCTGCCATGTCAGTGATCATTGTGGGTGTGGTGGTGTGACTTTGAGGCCATGGAGCAGCTGGA  
 CGCTGATGGTGGACCCCTGCATACACGTTCTGGGCAGGCTGTGCCCGGACATTGTGCAGTTTGTACCC  
 TACCGCCGTTCCAGAATGCCCTCGGGAGGCATTGGCACAGACCGTGTGCGAGAAGTGCCACACAAC  
 TGGTCTCATACTCAGGGCCAGGTTGGGCCCGCTCAAGCCACTTCCACCTCAGCCAAGGATCTGCG  
 ACAGGCCCCAGGCC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG229279 representing NM\_003915  
 Red=Cloning site Green=Tags(s)

MKMMHMAHCVTLVQLSISCDHLIDKIDIGSKSDPLCVLLQDVGGGWAELGRTERVRNCSSPEFSKTLQLE  
 YRFETVQKLRFGIYDIDNKTPELRDDDFLGAECSLGQIVSSQVLTPLMLKPGKPAGRGTITVSAQELK  
 DNRVVTMEVEARNLDKDKDFLGKSDPFLEFFRQGDGKWHLVYRSEVIKNNLNPTWKRFSVPVQHFCCGNPS  
 TPIQVQCSYDSDGSHDLIGTFHTSLAQLQAVPAEFECIHPEKQKQKKSYSKNSGTRVVKICRVETEYSFL  
 DYVMGGCQINFTVGVDFTGSDPSSPDSLHLSPTGVNEYLMALWSVGSVVQDYSDKLFPAFGFGAQQV  
 PPDWQVSHEFALNFNPSNPYCAGIQGIVDAYRQALPQVRLYGPTNFAPIINHVARFAAQAHAHQGTASQYF  
 MLLLLTDGAVTDVEATREAVVRASNLPMSEIIVGVGGADFEAMEQLDADGGPLHTRSGQAAARDIVQFVP  
 YRRFQNAPREALAQTVLAEVPTQLVSYFRAQGWAPLKPLPPSAKDPAQAPQA

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI



<b>ACCN:</b>	NM_003915
<b>ORF Size:</b>	1626 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_003915.5</a>
<b>RefSeq Size:</b>	2211 bp
<b>RefSeq ORF:</b>	1629 bp
<b>Locus ID:</b>	8904
<b>UniProt ID:</b>	<a href="#">Q99829</a>
<b>Cytogenetics:</b>	20q11.22
<b>Domains:</b>	C2, VWA
<b>Gene Summary:</b>	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]