

Product datasheet for **RG203541**

CPNE4 (NM_130808) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CPNE4 (NM_130808) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CPNE4
Synonyms:	COPN4; CPN4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG203541 representing NM_130808
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGAAGAAGATGAGCAACATTTATGAGTCCGCTGCCAACACACTGGGAATCTTTAACAGCCCTGCCTGA
 CCAAAGTTGAGCTGCGTGTGGCGTGCAAAGGCATTTCTGACAGAGATGCCCTTTCCAAACCAGACCCTG
 TGTCACTCTCAAGATGCAGTCTCATGGGCACTGGTTTGAGGTTGACAGGACTGAGGTGATTTCGCACCTGC
 ATAAACCCAGTGTACTCAAACTGTTTACTGTGGACTTTTACTTTGAGGAGGTGCAGCGCTGCGGTTTG
 AAGTCCATGACATCAGCAGCAACCACAATGGGCTGAAGGAGGCCGACTTCCTTGGTGGCATGGAGTGCAC
 ACTTGCCAGATTGTTTCCAGAGAAAGCTGTCCAAATCCTTGCTGAAGCATGGGAACACAGCAGGGAAA
 TCTTCCATCACGGTATTGCTGAAGAATTATCTGGCAATGACGACTATGTTGAGCTTGCAATCAATGCAC
 GGAAATTGGATGACAAGGATTTCTCAGTAAATCTGACCATTTCTGGAAATTTTCGTATGAATGATGA
 TGCAACTCAGCAGCTGGTGCACCGAACTGAGGTTGTGATGAATAACTTAAGCCAGCCTGGAAATCATT
 AAAGTATCTGTAAATCTCTATGCAGCGGAGACCCAGACCGCCGGCTAAAGTGCATAGTATGGGACTGGG
 ACTCCAATGGCAAGCATGACTTCATTGGAGAATTCACCTCGACATTCAAGGAGATGAGAGGAGCAATGGA
 AGGGAACAGGTGCACTGGGAGTGCATCAATCCCAAGTACAAAGCCAAGAAGAATTACAAGAACTCA
 GGCAGTGTGATTCTGAATCTGTGCAAGATTACAAGATGCATTCTTTCTTGGACTACATCATGGTGGCT
 GCCAAATCCAGTTTACAGTAGCTATAGATTTCACTGCCTCAAACGGGGACCCAGGAACAGCTGTTCTT
 GCACTACATCCACCTTACCAACCAATGAGTATCTGAAAGCTTTGGTAGCTGTGGGGGAGATTTGCCAA
 GACTATGACAGTGACAAAATGTTCCCTGCCTTTGGGTTTGGCGCCAGGATACCTCCAGAGTACACGGTCT
 CTCATGACTTTGCAATCACTTTAATGAAGACAACCCAGAATGTGCAGGAATTCAGGAGTTGTGGAAGC
 CTATCAGAGCTGTCTTCTTAAGCTCCAACCTCTACGGTCCCACCAACATTGCCCCCATCATCCAGAAGGTT
 GCCAAGTCAGCGTCAGAGGAACTAACACCAAGGAGGCATCGCAATACTTCATCTGCTGATCCTGACAG
 ATGGTGTATCACAGACATGGCCGACACCCGGGAGGCCATTGTCCATGCCTCCACCTCCCATGTCAGT
 CATCATCGTGGGAGTAGGGAACGCTGACTTCAGTGACATGCAGATGCTGGACGGTATGATGGGATTCTG
 AGGTCAACCAAGGGAGAGCCTGTTCTTCGAGACATCGTCCAGTTCGTGCCCTTCAGGAACCTCAAACACG
 CATCTCCAGCTGCCCTGGCAAAGAGCGTGTGGCTGAAGTCCCAAACCAAGTTGTGGACTATTACAATGG
 CAAAGGAATTAACCAAAATGTTATCAGAAATGTATGAATCTTCCAGAACACTAGCACCA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG203541 representing NM_130808
 Red=Cloning site Green=Tags(s)

MKKMSNIYESAANTLGIFNSPCLTKVELRVACKGISDRDALSKPDPCVILKMQSHGQWFEVDRTVEVIRT
 INPVYSKLFYVDFYFEEVQRLRFVVDHDISSNHNLKEADFLGGMECTLGQIVSQRLSKSLLKHGNTAGK
 SSITVIAEELSGNDDYVELAFNARKLDDKDFFSKSDPFLEIFRMNDATQQLVHRTEVVMNNLSPAWKSF
 KVSVNSLCSGDPDRRLKIVWDWDSNGKHDFIGFTSTFKEMRGAMEGKQVQWECINPKYKAKKNYKNS
 GTVILNLCKIHKMHSFLDYIMGGCQIQFTVAIDFTASNGDPRNSCSLHYIHPYQPNELKALVAVGEICQ
 DYDSKMFPAFGGARIPPEYTVSHDFAINFNEDNPECAGIQGVVEAYQSCLPKLQLYGPTNIAPIIQKV
 AKSASEETNTKEASQYFILLILTDGVITDMADTREAIVHASHLPMSVIIIGVGNADFSDMQMLDGGDGIL
 RSPKGEPVLRDIVQFVPRNFKHASPAALAKSVLAEPNQVVDYNGKGIKPKCSSEMYESSRTLAP

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_130808

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_130808.2](#), [NP_570720.1](#)

RefSeq Size: 2587 bp

RefSeq ORF: 1674 bp

Locus ID: 131034

UniProt ID: [Q96A23](#)

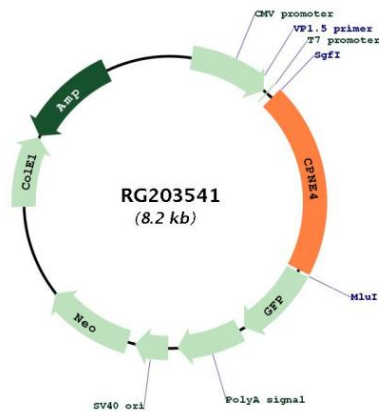
Cytogenetics: 3q22.1

Domains: C2, VWA

Protein Families: Druggable Genome

Gene Summary: This gene belongs to the highly conserved copine family. It encodes a calcium-dependent, phospholipid-binding protein, which may be involved in membrane trafficking, mitogenesis and development. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]

Product images:



Circular map for RG203541