

Product datasheet for **RG223828**

CPNE1 (NM_152927) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CPNE1 (NM_152927) 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:

>RG223828 representing NM_152927
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCCACTGCGTGACCTTGGTTTCAGCTGTCCATTTCTGTGACCATCTCATTGACAAGGACATCGGCT
 CCAAGTCTGACCCACTCTGCGTCTTTTACAGGATGTGGGAGGGGCGAGCTGGGCTGAGCTTGCCGGAC
 TGAACGGGTGCGAACTGCTCAAGCCCTGAGTTCTCCAAGACTCTACAGCTTGAGTACCGCTTTGAGACA
 GTCCAGAAGCTACGCTTTGGAATCTATGACATAGACAACAAGACGCCAGAGCTGAGGGATGATGACTTCC
 TAGGGGGTGTGAGTGTCCCTAGGACAGATTGTGTCCAGCCAGGTAAGTACTGACTCTCCCTTGATGCTGAA
 GCCTGGAAAACCTGTGGGCGGGGACCATCACGGTCTCAGCTCAGGAATTAAGGACAATCGTGTAGTA
 ACCATGGAGGTAGAGGCCAGAACTAGATAAGAAGGACTTCTGGGAAAATCAGATCCATTTCTGGAGT
 TCTTCCGCCAGGGTATGGGAAATGGCACCTGGTGTACAGATCTGAGGTCATCAAGAACAACCTGAACCC
 TACATGGAAGCGTTTCTCAGTCCCGTTTACGATTTCTGTGGTGGGAACCCAGCACACCCATCCAGGTG
 CAATGCTCCGATTATGACAGTGACGGGTACATGATCTCATCGGTACCTCCACACCAGCTTGCCCCAGC
 TGCAGGACGTCCCGCTGAGTTTGAATGCATCCACCTGAGAAGCAGCAGAAAAAGAAAAGCTACAAGAA
 CTCTGGAATACTCCGTGTCAAGATTTGTCGGGTAGAAACAGAGTACTCCTTTCTGGACTATGTGATGGGA
 GGCTGTGAGTCAACTTCACTGTGGCGTGGACTTCACTGGTCCAATGGAGACCCTCCTCACCTGACT
 CCCTACACTACCTGAGTCCAACAGGGGTCAATGAGTACCTGATGGCACTGTGGAGTGTGGGACGCGTGGT
 TCAGGACTATGACTCAGACAAGCTGTCCCTGCATTTGGATTTGGGGCCAGGTTCCCTGACTGGCAG
 GTCTCGCATGAATTTGCCTTGAATTTCAACCCAGTAAACCCCTACTGTGCAGGCATCCAGGGCATTGTGG
 ATGCCACCGCAAGCCCTGCCCAAGTTCGCCTCTATGGCCCTACCAACTTTGCACCCATCATCAACCA
 TGTGGCCAGGTTTGCAGCCAGGCTGCACATCAGGGGACTGCCTCGCAATACTTCATGCTGTTGCTGCTG
 ACTGATGGTGTGTGACGGATGTGGAAGCCACACGTGAGGCTGTGGTGCCTCGAACCTGCCATGT
 CAGTGATCATTGTGGGTGTGGTGGTGTGACTTTGAGGCCATGGAGCAGCTGGACGCTGATGGTGGACC
 CCTGCATACAGTTCTGGGACGGCTGTGCCCGGACATTGTGCAGTTTGTACCTACCGCCGGTCCAG
 AATGCCCTCGGGAGGCATTGGCACAGACCGTGTGCGAGAAGTGCCACACAACCTGGTCTCATACTTCA
 GGGCCAGGGTTGGGCCCGCTCAAGCCACTTCCACCCTCAGCCAAGGATCCTGCACAGGCCCCCGAGCC
 C

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG223828 representing NM_152927
 Red=Cloning site Green=Tags(s)

MAHCVTLVQLSISCDHLIDKDIGSKSDPLCVLLQDVGGGWAELGRTERVRNCSSPEFSKTLQLEYRFET
 VQKLRFGIYDIDNKTPELRDDDFLGAECSLGQIVSSQVLTPLMLKPGKPAGRGITVSAQELKDNRVV
 TMEVEARNLDKDFLGKSDPFLEFFRQGDGKWHLYRSEVIKNNLNPTWKRFVSPVQHFVCGGNPSTPIQV
 QCSYDSDGSHDLIGTFHTSLAQLQAVPAEFECIHPEKQKQKSYKNSGTIRVKICRVETEYSFLDYVMG
 GCQINFVGVDFTGSDPSSPDSLHYLSPTGVNEYLMALWSVGSVVQDYSDKLFPAFGFGAQPDPDWQ
 VSHEFALNFNPSNPYCAGIQGIVDAYRQALPQVRLYGPTNFAPIINHVARFAAQAHQGTASQYFMLLLL
 TDGAVTDVEATREAVVRASNLPM SVIIVGVGGADFEAMEQLDADGGPLHTRSGQAAARDIVQFVPIRRFQ
 NAPREALAQTVLAEVPTQLVSYFRAQGWAPLKLPLPPSAKDPAQAPQA

TRTRPLE - GFP Tag - V

Restriction Sites:

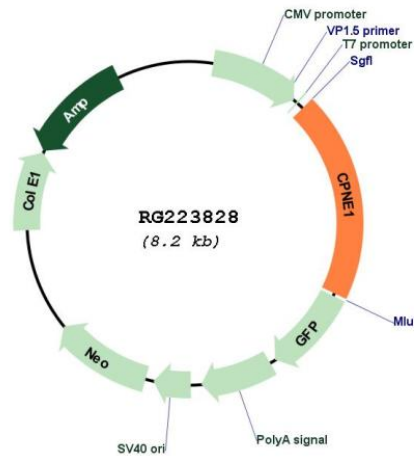
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_152927
ORF Size:	1611 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:	<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:	NM_152927.3
RefSeq Size:	2107 bp
RefSeq ORF:	1614 bp
Locus ID:	8904
UniProt ID:	Q99829
Cytogenetics:	20q11.22
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]