

Product datasheet for **RC206428**

CPNE7 (NM_153636) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CPNE7 (NM_153636) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CPNE7
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC206428 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGCGCGGGCTCGGAGCGGGGGCGGGCAACCCCGGGGTTTGCCTCGCCTCGAAGG
 TGGAGCTGCGGCTCAGCTGCCGGCACCTGCTGGACCGCGACCCGCTCACCAAGTCCGACCCAGCGTGGC
 GTTGCTGCAGCAGGCGCAGGGCCAGTGGGTGCAGGTGGGAGGAGTGGTCCGGAGCAGCCTGCAT
 CCCGTGTTCTCCAAGGTCTTACGGTGGACTACTTTCGAGGAGGTGCAGAGGCTGCGCTTTGAGGTGT
 ACGACACGCATGGGCCAGCGGCTTTCAGCTGTCAGGAGGACGATTTCTGGGGGGCATGGAGTGCACCT
 GGGGCAGATTGTGGCCAGAAGAAGGTGACCCGCCGCTGCTGCTCAAGTTTGGCAGGAACGCTGGCAAG
 TCCACCATCACGGTGCAGGAGGACATCTCGGGGAACAACGGTACGTGGAGCTCTCTTCCGGGCCA
 GGAAGCTGGACGACAAGGACCTTTCAGCAAGTCCGACCCCTTCTGGAGCTCTACAGGGTCAACGACGA
 CCAGGGCTTGCAGCTGGTGTACAGGACGGAGGTGGTGAAGAACAACCTGAACCCGGTGTGGGAGGCCTC
 AAAGTCTCTGAGTTCCCTCTGACAGTGCAGGAGACAAGGCCTCTAAAGTGCCTGGTCTGGGATTACG
 ACTCTCGAGGAAAGCAGACTTCATCGGAGAATTCTCTACCACCTTCGAGGAGATGCAGAAGGCCTTTGA
 GGAGGGGACAGGCCAGTGGGACTGTGTGAACCCAAATACAAGCAGAAGAGACGCAGTTATAAGAACTCA
 GGAGTGGTTCGCTGGCTGACCTCAAGTTCACAGGGTGTACTCCTTCTGGACTATATCATGGGCGGCT
 GCCAGATCCACTTCACCGTGGCCATTGACTTACCAGCCTCCAATGGAGACCCGCGGAACAGCTGCTCCCT
 GCACTACATCAACCCCTACCAGCCGAACGAGTACCTGAAGGACTGGTGTCCGTGGGCGAGATCTGCCAG
 GACTATGACAGTGACAAGAGGTTTTCCGCTTTGGGTTTGGAGCCCGGATCCCTCCCAAGTATGAGGTGT
 CCCATGACTTTGCCATCAATTTCAACCTGAGGACGATGAGTGTGAAGGCATCCAGGGCGTGGTGGAGGC
 CTACCAGAACTGCCTGCCAGGGTCCAGCTCTACGGGCCCAACGAGTGGCGCCCATCATCTCCAAGGTG
 GCACGCGTGGCGGCGCCGAGGAGACACCGGAAAGCCTCTCAATACTACATCTGCTGATCCTGACGG
 ACGGCGTGGTACCGACATGGCCGACACACGGGAGGCCATTGTGCGTGCCTCACGCTGCCATGTCCAT
 CATCATCGTGGGCGTGGGCAACGCCGACTTACCAGACATGCAGGTCTGGACGGCGACGACGGCGTCTG
 CGCTCCCCACGGGCTGAGCCCGCTCCGGGACATCGTACAGTTCGTGCCCTTCCGGGAGCTCAAGAACG
 CATCCCCTGCGGCGTGGCAAGTGCCTGCTGGCCGAGTCCCGAAGCAGGTGGTGGAGTACTACAGCCA
 CAGAGGCTGCCCCGAGAAGCCTGGGCGTCCCTGCCGGAGAGGCCAGCCAGGCTGCACACCG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC206428 protein sequence
 Red=Cloning site Green=Tags(s)

MSAGSERGAAATPGGLPAPCASKVELRLSCRHLLDRDPLTKSDPSVALLQQAQQQVWVQVGRTEVVRSSLH
 PVFSKVFVTDYYFEEVQRLRFEVYDTHGSPSGFSCQEDDFLGGMECTLGQIVAQKKVTRPLLLKFRNAGK
 STITVIAEDISGNNGYVELSFRARKLDDKDLFSKSDPFLELYRVNDDQGLQLVYRTEVVKNNLNPNVWEAF
 KVSLSLCSCEETRPLKCLVWDYDSRGKHDFIGEFSTTFEEMQKAFFEGQAQWDCVNPYKQKRRSYKNS
 GVVVLADLKFHRVYSFLDYIMGGCQIHFTVAIDFTASNGDPRNSCSLHYINPYQPNEYLKALVSVGEICQ
 DYDSDKRFSALGFGARIPPKYEVSHDFAINFNPEDDECEGIQGVVEAYQNCLPRVQLYGPNTVAPIISKV
 ARVAAAEEESTGKASQYYILLILTDGVVTDMAITREAIIVRASRLPMSIIIVGVGNADFTDMQVLDGGDGVL
 RSPRGPALRDIIVQFVFPFRELKNASPAALAKCVLAIEVPKQVVEYYSHRGLPPRSLGVPAGEASPGCTP

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

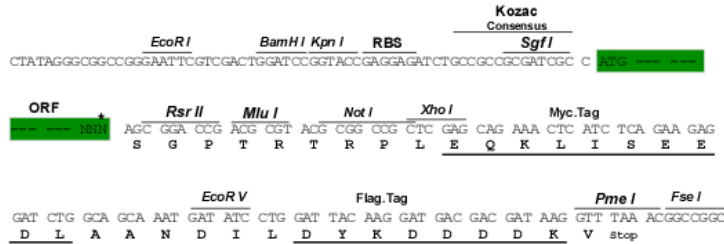
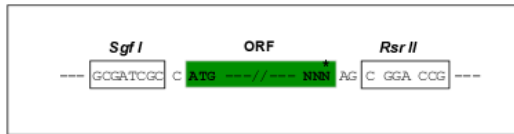
https://cdn.origene.com/chromatograms/mk6619_a07.zip

Restriction Sites:

Sgfl-RsrII

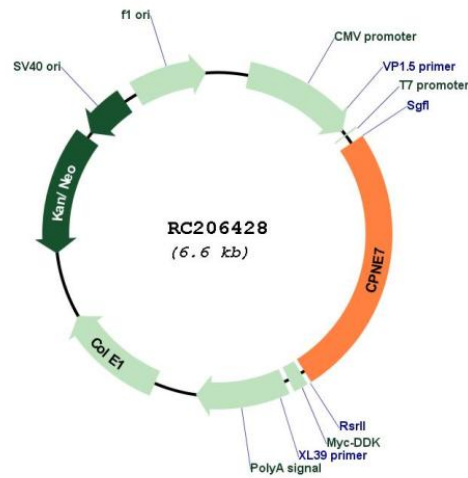
Cloning Scheme:

Cloning sites used for ORF Shuttling:

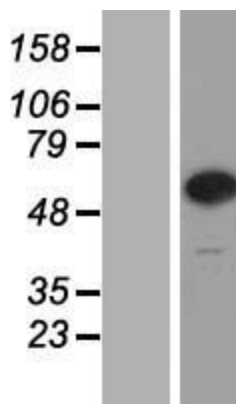


* The last codon before the Stop codon of the ORF

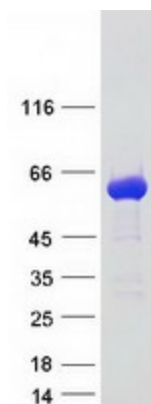
Plasmid Map:



ACCN:	NM_153636
ORF Size:	1674 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_153636.1 , NP_705900.1
RefSeq Size:	2449 bp
RefSeq ORF:	1677 bp
Locus ID:	27132
UniProt ID:	Q9UBL6
Cytogenetics:	16q24.3
MW:	61.9 kDa
Gene Summary:	This gene encodes a member of the copine family, which is composed of calcium-dependent membrane-binding proteins. The gene product contains two N-terminal C2 domains and one von Willebrand factor A domain. The encoded protein may be involved in membrane trafficking. Two alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2008]

Product images:

Western blot validation of overexpression lysate (Cat# [LY406997]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206428 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CPNE7 protein (Cat# [TP306428]). The protein was produced from HEK293T cells transfected with CPNE7 cDNA clone (Cat# RC206428) using MegaTran 2.0 (Cat# [TT210002]).