

Product datasheet for **MR220680**

Cpped1 (NM_146067) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cpped1 (NM_146067) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cpped1
Synonyms:	C530044N13Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR220680 representing NM_146067 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGTCCGCTATGGAGGCGGCGGATGTTTTCCACAGAGCCCGGGCAGGACCTGGACGCGTTTTCTCAG
 AAAAGGAACGGGAATGGAAGGTCCATTCTACTTCGTCCAAGGCGCAGACACTCAGTTTGGACTGATGAA
 GGCCTGGTCCACCGGGAAGTGTACGCTGGCGGTGACGAGTGGGGCAGGAGATCCGTCTCACGGAGCAA
 GCTGTTGAGGCCATCAACAAGCTGAACCTAAACCAAATTCTTTGTTCTGTGTGGTGACCTCGTTCATG
 CCATGCCAGGAAGTCCATGGCGCAAGAACAGACCAGGGACCTGCAGCGAGTACTGAAAGCCGTCGACCA
 GGACATCCCACTGGTGTGGTCAAGCGCAACCATGACTTGGGCAATGCCCCACAGCCGAGACTGTGGAG
 GAGTTCTGCCAGACATGGGGAGACGACTACTTCAGCTTTTGGGTGCGGGGCGCTCCTGTTCTGGTGCTCA
 ACTCCAGTTCTTGTACGATGCCTCCAGGTGCCCGCACTGAAGCAGGCCCAGGATCACTGGCTGGACCA
 ACAGCTGAACATTGCAGAGCAGAAACAGTGCCAGCACGCCATTGTCTCCAGCATATCCCGCTATTCTTG
 CAGAGTATTGATGAAGATGACGACTACTTCAACCTCACTAAGACCGTCCGTAAAGAACTGGCCGAAAAGC
 TCACCAGAGCAGGTATCAGAGCTGTGTTCTCCGGGCACTACCAGGAATGCCGGGGAACTACCAGAA
 TCTTGACATGGTAGTTTCATCTGCTATCGGGTGCCAGCTGGGCAAAGACCCACGGGCTCCGTGTGGTG
 GCCATCACTGCGGAGAAGATTGTTTCATCGTTACTACAGTTTAGATGAGCTGAGCCAGGGTGGGGTCGAGG
 AGGACCTGAAGGAGCTGCTGAAGGAG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >MR220680 representing NM_146067

Red=Cloning site Green=Tags(s)

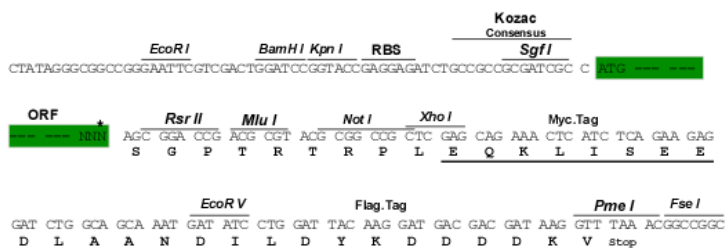
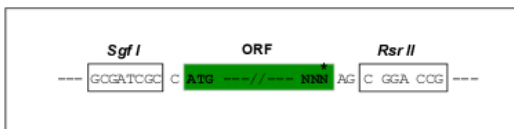
MSAMEAADVFHRRGRITLDAFSSEKEREWKGPFFYVQGADTQFGLMKAWSTGNCDAGGDEWQGEIRLTEQ
AVEAINKLNPKPKFFVLCDGLVHAMPGTPWRQEQTDRDLQRVLKAVDQDIPLVMVSGNHD LGNAPTAETVE
EFCQTWGGDDYFSFWVGVLFLVLNSQFLYDASRPCALKQAQDHWLDQQLNIAEQKQCQHAIVFQHIPLFL
QITADEDDDYFNLTKYRKELAEKLTRAGIRAVPSGHYHRNAGGTYNLDMVSSAIGCQLGKDTHLRVV
AITAIEKIVRHYSKLDL SGGVEEDLKEELLE

SGPTRRRL**EQ**KLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-RsrII

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 146067

ORF Size: 936 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_146067.3](#), [NP_666179.2](#)

RefSeq Size: 2663 bp

RefSeq ORF: 939 bp

Locus ID: 223978

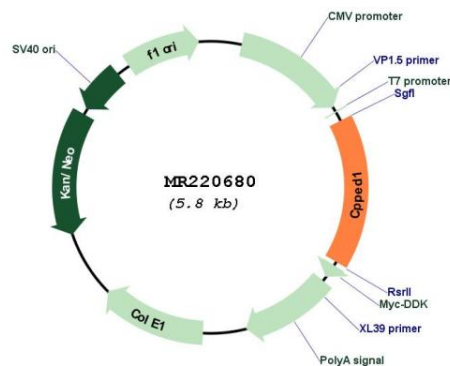
UniProt ID: [Q8BFS6](#)

Cytogenetics: 16 A1

MW: 35.7 kDa

Gene Summary: Protein phosphatase that dephosphorylates AKT family kinase specifically at 'Ser-473', blocking cell cycle progression and promoting cell apoptosis. May play an inhibitory role in glucose uptake by adipocytes (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR220680