

Product datasheet for **RC235181**

Carboxypeptidase D (CPD) (NM_001199775) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Carboxypeptidase D (CPD) (NM_001199775) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CPD
Synonyms:	GP180
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC235181 representing NM_001199775 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGGTTTGTGCTTTCTGAAATCTGCATGGTGGCTCAGTGGTAGCAAGCTATCCTTTTGATGATTCTC
CAGAACATAAGGCCACTGGAATCTATAGCAAACTCAGATGATGAAGTATTTAAATACTGGCAAAAGC
TTATGCTTCAAACCAACCATAATGAAACTGGTGGCCTCATTGTCCAGGAGATGAAGACGAGACTTTC
AAAGATGGAATCACAACGGCGCACATTGGTATGATGTGGAAGGTGGTATGCAAGATTACAATTATGTGT
GGGCCAACTGTTTTGAGATCACATTAGAACTGTCTTGTGCAAGTACCCACCTGCTTCACAGCTTCGACA
GGAATGGGAGAACAATCGTGAGTCTTTGATCACATTGATTGAAAAGGTTACATTGGAGTGAAAGGATTT
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TCACAACAGGCAGATTTGGTGATTTCTACCGATTACTTGTCTGGAACCTACAACCTTACAGTAGTTTT
AACTGGGTATATGCCATTGACTGTTACTAATGTAGTGGTGAAGAAGGACCAGCCACAGAGGTGGATTTT
TCTCTTAGGCCAACTGTAACCTCAGTAATCCCTGACACGACAGAGGCTGTATCAACTGCTAGCACAGTTG
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CCATTTCCCTGATATGGAATCTTCTTGAGAAGGTTTGCCAATGAATATCCTAACATTACCGGCTTTAT
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CACAGATCCTACGCAACCAGAACTATTGCTGTAATGAGCTGGATGAAGTCTATCCATTTGTACTTTCA
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TTGAACTAGGTTGTGAAATATCCACTTGAGAAAAGAGCTGCCAACTTTTGGGAACAGAATCGAAGATC
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 TCTTAGTATGTTAGTGGAGGTTCAAGGGAGTTCATGGATTTGTTAAAGATAAGACTGGAAAGCCAATC
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 TGAAGATGAAATTCGCATGATGTCTACCGGCTCCAAGAAGTCCCTCCTAAGCCATGAGTTCAGGATGAA
 ACAGACTGAAGAGGAAACATTATATTCTAGCAAACAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence:

>RC235181 representing NM_001199775
 Red=Cloning site Green=Tags(s)

MRFVLSGNLHGGSVVASYPFDDSPHKATGIYSKTSDDVEFKYLAKAYASNHPIMKTGEPHCPGDEDETF
 KDGITNGAHWYDVEGMDQYNYVWANCFEITLLESCCKYPPASQLRQEWENNRESLITLIEKVHIGVKGF
 VKDSITGSGLENATISVAGINHNITGRFGDFYRLLVPGTYNLTVVLTGYMPLTVTNVVVKEGPATEVDF
 SLRPTVTSVIPDTEAVSTASTVAIPNILSGTSSSYQPIQPKDFHHHHFPDMEIFLRRFANEYPNITRLY
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 TRIHLMPSMNPDPGYEKSQEGDSISVIGRNNSNFDLNRNFPDQFVQITDPTQPETIAVMSWMKSYPFVLS
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 SWYNVPGMDQWNYLQTNCFEVTIELGCVKYPLEKELPNFWEQNRSLIQFMKQVHQGVRFVLDATDGR
 GILNATISVAEINHPVTTYKTGDYWRLLVPGTYKITASARGYNPVTKNVTKSEGAIQVNFVLVRSSTD
 NNEKKGKSGASSSTNDASDPTTKEFETLIKDLAENGLLESLMLRSSNLALALYRYHSYKDLSEFLRGLV
 MNYPHITNLNLGQSTERYRHIWSLEISNKNVSEPEEPKIRFVAGIHGNAPVGTLLLLALAEFLCLNYKK
 NPAVTQLVDRTRIVIVPSLNPDRERAQEKDCTSKIGQTNARGKDLDTDFTNNASQPETKAIENLIQKQ
 DFLSVALDGGSMVTPYDKPVQTVENKETLKHLSLYANNHPSMHMQPSCPKNKSDENIPGGVMRGAE
 WSHLGLSMKDYVTYGHCPETVYVTSYFSAARLPSLWADNKRSLLSMLVEVHKGVHGFVKDKTKGPI
 SKAVIVLNEGKQVTKEGGYFHVLLAPGVHNIIAIADGYQQHSQVVFVHDAASSVIVFDTDNRIFGLP
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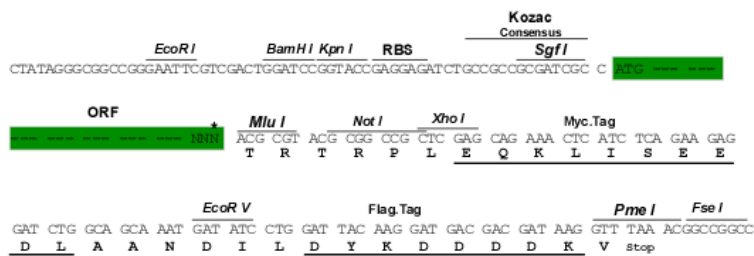
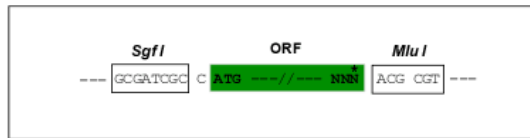
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

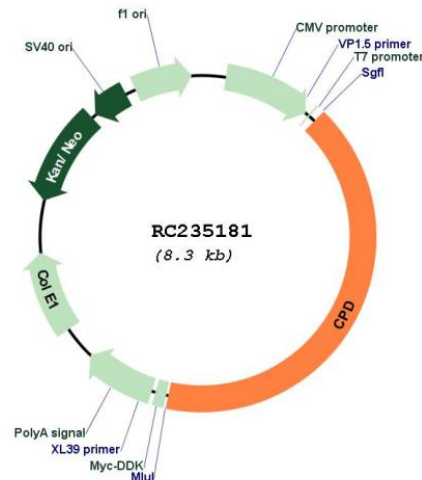
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001199775

ORF Size: 3399 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.

RefSeq: [NM_001199775.1](#), [NP_001186704.1](#)

RefSeq Size: 8422 bp

RefSeq ORF: 3402 bp

Locus ID: 1362

UniProt ID: [O75976](#)

Cytogenetics: 17q11.2

Protein Families: Druggable Genome, Protease, Transmembrane

MW: 126.9 kDa

Gene Summary: The metallo-carboxypeptidase family of enzymes is divided into 2 subfamilies based on sequence similarities. The pancreatic carboxypeptidase-like and the regulatory B-type carboxypeptidase subfamilies. Carboxypeptidase D has been identified as a regulatory B-type carboxypeptidase. CPD is a homolog of duck gp180, a hepatitis B virus-binding protein. Transcript variants utilizing alternative polyadenylation signals exist for this gene. [provided by RefSeq, Jul 2008]