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Product datasheet for RC209394

CPXM (CPXM1) (NM_019609) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CPXM (CPXM1) (NM_019609) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CPXM
Synonyms:	CPX1; CPXM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC209394 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTGGGGGCTCCTGCTCGCCCTGGCCGCCTTCGCGCCGGCCGTCGGCCCGGCTCTGGGGGCGCCCAGGA
ACTCGGTGCTGGGCCTCGCGCAGCCCGGGACCACCAAGGTCCCAGGCTTGACCCCGGCCCTGCATAGCAG
CCCGGCACAGCCGCCGGCGGAGACAGCTAACGGGACCTCAGAACAGCATGTCCGGATTCGAGTCATCAAG
AAGAAAAAGGTCATTATGAAGAAGCGGAAGAAGCTAACTCTAACTCGCCCCACCCCACTGGTGACTGCCG
GGCCCCTTGTGACCCCCACTCCAGCAGGGACCCTCGACCCCGCTGAGAAACAAGAAACAGGCTGTCCTCC
TTTGGGTCTGGAGTCCCTGCGAGTTTCAGATAGCCGGCTTGAGGCATCCAGCAGCCAGTCCTTTGGTCTT
GGACCACACCGAGGACGGCTCAACATTCAGTCAGGCCTGGAGGACGGCGATCTATATGATGGAGCCTGGT
GTGCTGAGGAGCAGGACGCCGATCCATGGTTTCAGGTGGACGCTGGGCACCCCACCCGCTTCTCGGGTGT
TATCACACAGGGCAGGAACTCTGTCTGGAGGTATGACTGGGTCACATCATACAAGGTCCAGTTCAGCAAT
GACAGTCGGACCTGGTGGGGAAGTAGGAACCACAGCAGTGGGATGGACGCAGTATTTCCTGCCAATTCAG
ACCCAGAAACTCCAGTGCTGAACCTCCTGCCGGAGCCCCAGGTGGCCCGCTTCATTCGCCTGCTGCCCCA
GACCTGGCTCCAGGGAGGCGCGCCTTGCCTCCGGGCAGAGATCCTGGCCTGCCCAGTCTCAGACCCCAAT
GACCTATTCCTTGAGGCCCCTGCGTCGGGATCCTCTGACCCTCTAGACTTTCAGCATCACAATTACAAGG
CCATGAGGAAGCTGATGAAGCAGGTACAAGAGCAATGCCCCAACATCACCCGCATCTACAGCATTGGGAA
GAGCTACCAGGGCCTGAAGCTGTATGTGATGGAAATGTCGGACAAGCCTGGGGAGCATGAGCTGGGGGAG
CCTGAGGTGCGCTACGTGGCTGGCATGCATGGGAACGAGGCCCTGGGGCGGGAGTTGCTTCTGCTCCTGA
TGCAGTTCCTGTGCCATGAGTTCCTGCGAGGGAACCCACGGGTGACCCGGCTGCTCTCTGAGATGCGCAT
TCACCTGCTGCCCTCCATGAACCCTGATGGCTATGAGATCGCCTACCACCGGGGTTCAGAGCTGGTGGGC
TGGGCCGAGGGCCGCTGGAACAACCAGAGCATCGATCTTAACCATAATTTTGCTGACCTCAACACACCAC
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CGTGGGCTGCCCGCGAGCTCACGCCCACACCAGATGATGCTGTGTTTCGCTGGCTCAGCACTGTCTATGC
TGGCAGTAATCTGGCCATGCAGGACACCAGCCGCCGACCCTGCCACAGCCAGGACTTCTCCGTGCACGGC
AACATCATCAACGGGGCTGACTGGCACACGGTCCCCGGGAGCATGAATGACTTCAGCTACCTACACACCA
ACTGCTTTGAGGTCACTGTGGAGCTGTCCTGTGACAAGTTCCCTCACGAGAATGAATTGCCCCAGGAGTG
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GACAAGGACACGGAGCTTGGGATTGCTGACGCTGTCATTGCCGTGGATGGGATTAACCATGACGTGACCA
CGGCGTGGGGCGGGGATTATTGGCGTCTGCTGACCCCAGGGGACTACATGGTGACTGCCAGTGCCGAGGG
CTACCATTCAGTGACACGGAACTGTCGGGTCACCTTTGAAGAGGGCCCCTTCCCCTGCAATTTCGTGCTC
ACCAAGACTCCCAAACAGAGGCTGCGCGAGCTGCTGGCAGCTGGGGCCAAGGTGCCCCCGGACCTTCGCA
GGCGCCTGGAGCGGCTAAGGGGACAGAAGGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC209394 protein sequence
Red=Cloning site Green=Tags(s)

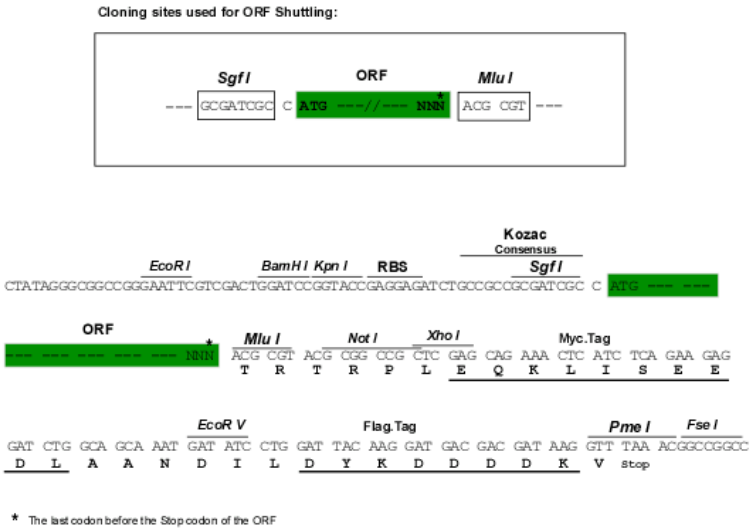
MWGLLLALAAFAPAVGPALGAPRNSVLGLAQPGTTKVPGLTPALHSSPAQPPAETANGTSEQHVRIRVIK
KKKVIMKKRKKLTLTRPTPLVTAGPLVTPTPAGTLDPAEKQETGCPPLGLESLRVSDSRLEASSSQSFGL
GPHRGRLNIQSGLEDGDLYDGAWCAEEQDADPWFQVDAGHPTRFSGVITQGRNSVWRYDWVTSYKVQFSN
DSRTWWGSRNHSSGMDAVFPANSDPETPVLNLLPEPQVARFIRLLPQTWLQGGAPCLRAEILACPVSDPN
DLFLEAPASGSSDPLDFQHHNYKAMRKLMKQVQEQCPNITRIYSIGKSYQGLKLYVMEMSDKPGEHELGE
PEVRYVAGMHGNEALGRELLLLLMQFLCHEFLRGNPRVTRLLSEMRIHLLPSMNPDGYEIAYHRGSELVG
WAEGRWNNQSIDLNHNFADLNTPLWEAQDDGKVPHIVPNHHLPLPTYYTLPNATVAPETRAVIKWMKRIP
FVLSANLHGGELVVSYPFDMTRTPWAARELTPTPDDAVFRWLSTVYAGSNLAMQDTSRRPCHSQDFSVHG
NIINGADWHTVPGSMNDFSYLHTNCFEVTVELSCDKFPHENELPQEWENNKDALLTYLEQVRMGIAGVVR
DKDTELGIADAVIAVDGINHDVTTAWGGDYWRLLTPGDYMVTASAEGYHSVTRNCRVTFEEGPFPCNFVL
TKTPKQRLRELLAAGAKVPPDLRRRLERLRGQKD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6714_g05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_019609

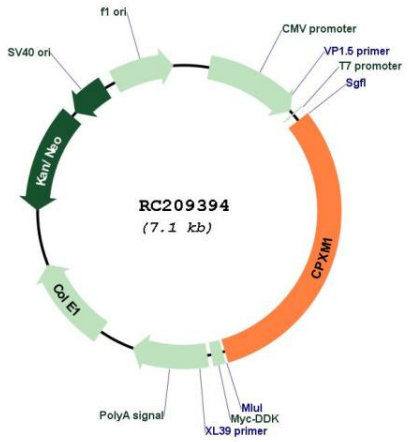
ORF Size: 2202 bp

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

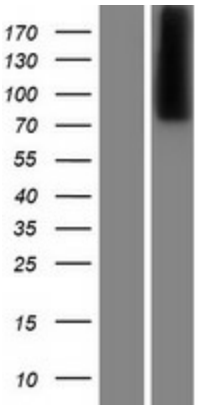
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_019609.5
RefSeq Size:	2409 bp
RefSeq ORF:	2205 bp
Locus ID:	56265
UniProt ID:	Q96SM3
Cytogenetics:	20p13
Domains:	F5_F8_type_C, Zn_carbOpept
Protein Families:	Druggable Genome, Protease, Secreted Protein
MW:	81.7 kDa
Gene Summary:	This gene likely encodes a member of the carboxypeptidase family of proteins. Cloning of a comparable locus in mouse indicates that the encoded protein contains a discoidin domain and a carboxypeptidase domain, but the protein appears to lack residues necessary for carboxypeptidase activity.[provided by RefSeq, May 2010]

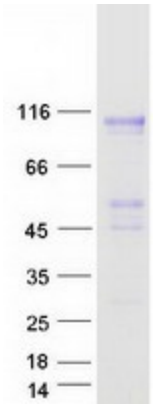
Product images:



Circular map for RC209394



Western blot validation of overexpression lysate (Cat# [LY412734]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209394 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CPXM1 protein (Cat# [TP309394]). The protein was produced from HEK293T cells transfected with CPXM1 cDNA clone (Cat# RC209394) using MegaTran 2.0 (Cat# [TT210002]).