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Product datasheet for RC209231

CNNM4 (NM_020184) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CNNM4 (NM_020184) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CNNM4
Synonyms:	ACDP4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC209231 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGCCGGTGGGCGGGGGCGGGCGCCCGGTCGGCGGACCGGCCCGCGGGCGCCTCCTCCTGGCGGCGC
CGGTGCTGCTGGTGCTGCTGTGGGCGCTGGGGGCCCGGGGCCAGGGCAGCCCCCAGCAGGGCACGATCGT
GGGCATGAGGCTGGCGAGCTGCAACAAGTCGTGTGGGACGAACCCGGATGGCATCATCTTCGTGTCCGAG
GGCAGCACCGTGAACCTGAGGCTGTACGGCTACAGCCTGGGCAACATCTCCAGCAACCTGATCTCCTTCA
CCGAGGTGGACGATGCCGAGACCCTCCACAAGTCCACCAGCTGCCTCGAGCTCACCAAGGACCTGGTCGT
CCAGCAGCTGGTCAACGTGAGCCGCAGGAACACGTCCGGCGTGCTGGTGGTGCTCACCAAGTTCCTCCGG
AGGAGCGAGAGCATGAAGCTGTATGCACTGTGCACCCGGGCCCAGCCCGACGGGCCCTGGCTGAAGTGGA
CGGACAAGGACTCACTGCTCTTCATGGTGGAGGAGCCTGGGAGGTTCCTGCCTCTCTGGCTGCACATTCT
CCTAATTACGGTGCTGCTGGTGCTGTCGGGCATATTTTCTGGCCTCAACCTCGGGCTTATGGCCCTGGAC
CCCATGGAGCTGCGCATCGTGCAGAACTGTGGCACCGAGAAGGAGAGGCGCTATGCCCGCAAGATTGAGC
CCATCCGGCGCAAGGGCAACTACCTTCTCTGCTCGTTGCTCCTAGGGAACGTGCTGGTCAACACCTCCCT
CACAATCCTTCTAGACAACCTCATCGGGTCCGGCCTCATGGCGGTGGCCTCCTCCACCATTGGCATTGTC
ATCTTTGGGGAGATCCTACCTCAGGCCCTGTGCTCCCGACATGGGCTGGCTGTGGGTGCCAACACCATCC
TTCTCACCAAATTCTTTATGCTACTCACCTTCCCCCTCAGTTTTCCCATTAGCAAGCTCCTGGACTTTTT
TCTGGGCCAGGAGATTCGCACTGTTTACAACCGGGAGAAGCTGATGGAGATGTTGAAGGTGACGGAGCCC
TATAATGACCTCGTGAAAGAGGAGCTCAATATGATCCAGGGTGCCCTGGAACTACGGACCAAAACTGTAG
AGGATATCATGACCCAGCTCCAGGACTGCTTCATGATCCGCAGCGATGCCATCCTGGACTTCAACACCAT
GTCGGAGATAATGGAAAGCGGCTATACTCGCATCCCGGTGTTCGAAGACGAGCAGTCCAATATTGTAGAT
ATTCTCTACGTCAAAGACTTGGCCTTTGTGGACCCCGATGACTGCACCCCCCTCAAGACTATCACTCGCT
TCTATAACCACCCGGTGCACTTTGTCTTCCATGACACCAAGTTGGATGCCATGCTGGAGGAGTTCAAGAA
GGGGAAGTCCCACCTGGCCATCGTGCAGAAGGTAAACAACGAGGGTGAGGGTGACCCCTTCTACGAGGTC
CTGGGCCTGGTCACCCTGGAGGACGTGATCGAGGAGATCATCAAGTCGGAGATCCTGGACGAGTCCGACA
TGTACACTGACAACCGAAGCCGGAAGCGGGTGTCTGAGAAGAACAAGCGTGACTTCTCTGCCTTCAAGGA
TGCGGACAATGAGCTCAAAGTGAAAATCTCCCCGCAGCTCCTCCTGGCCGCTCATCGCTTCCTAGCCACA
GAGGTCTCTCAGTTTAGCCCCTCCCTGATATCAGAGAAGATCCTGCTGCGGCTACTCAAGTACCCAGATG
TCATTCAGGAACTCAAGTTTGACGAGCACAATAAGTACTACGCCCGCCATTACCTGTACACCCGAAATAA
GCCGGCCGACTACTTCATCCTCATCCTGCAGGGGAAGGTGGAGGTGGAGGCAGGGAAGGAGAACATGAAG
TTTGAGACGGGCGCCTTCTCCTACTATGGGACTATGGCCCTGACCTCGGTCCCCTCCGACCGTTCCCCAG
CACACCCCACCCCACTCAGCCGCTCAGCCTCCCTCAGTTACCCAGACCGCACAGACGTCTCAACTGCAGC
AACCTTGGCAGGCAGCAGCAACCAGTTTGGCAGCTCTGTCCTGGGCCAGTACATCTCTGACTTCAGCGTC
CGGGCACTCGTGGACTTGCAGTACATCAAGATCACTCGGCAGCAGTACCAGAACGGGCTGCTGGCTTCTC
GCATGGAGAACAGCCCTCAGTTTCCCATAGACGGGTGCACCACCCACATGGAGAACTTGGCCGAGAAGTC
TGAGCTGCCTGTGGTGGACGAGACCACAACTCTTCTCAACGAGCGTAACTCCTTGCTGCACAAAGCCTCC
CACGAGAATGCCATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC209231 protein sequence
Red=Cloning site Green=Tags(s)

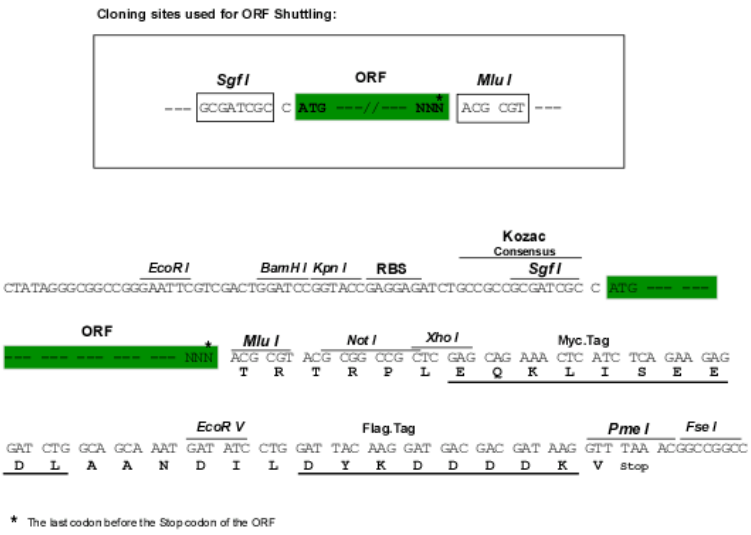
MAPVGGGGRPVGGPARGRLLLAAPVLLVLLWALGARGQGSPQQGTIVGMRLASCNKSCGTNPDGIIFVSE
GSTVNLRLYGYSLGNISSNLISFTEVDDAETLHKSTSCLELTKDLVVQQLVNVSRRNTSGVLVVLTKFLR
RSESMKLYALCTRAQPDGPWLKWTDKDSLLFMVEEPGRFLPLWLHILLITVLLVLSGIFSGLNLGLMALD
PMELRIVQNCGTEKERRYARKIEPIRRKGNYLLCSLLLGNVLVNTSLTILLDNLIGSGLMAVASSTIGIV
IFGEILPQALCSRHGLAVGANTILLTKFFMLLTFPLSFPISKLLDFFLGQEIRTVYNREKLMEMLKVTEP
YNDLVKEELNMIQGALELRTKTVEDIMTQLQDCFMIRSDAILDFNTMSEIMESGYTRIPVFEDEQSNIVD
ILYVKDLAFVDPDDCTPLKTITRFYNHPVHFVFHDTKLDAMLEEFKKGKSHLAIVQKVNNEGEGDPFYEV
LGLVTLEDVIEEIIKSEILDESDMYTDNRSRKRVSEKNKRDFSAFKDADNELKVKISPQLLLAAHRFLAT
EVSQFSPSLISEKILLRLLKYPDVIQELKFDEHNKYYARHYLYTRNKPADYFILILQGKVEVEAGKENMK
FETGAFSYYGTMALTSVPSDRSPAHPTPLSRSASLSYPDRTDVSTAATLAGSSNQFGSSVLGQYISDFSV
RALVDLQYIKITRQQYQNGLLASRMENSPQFPIDGCTTHMENLAEKSELPVVDETTTLLNERNSLLHKAS
HENAI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6806_c05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020184

ORF Size: 2325 bp

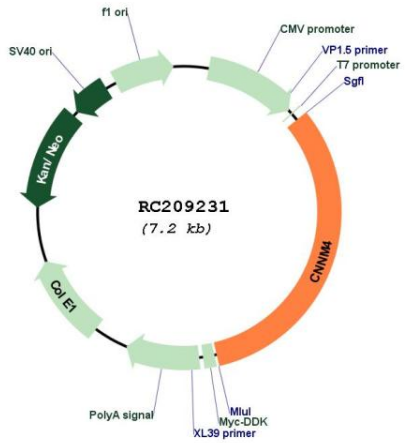
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

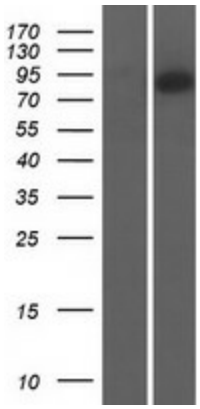
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_020184.3, NP_064569.3
RefSeq Size:	4814 bp
RefSeq ORF:	2328 bp
Locus ID:	26504
UniProt ID:	Q6P4Q7
Cytogenetics:	2q11.2
Domains:	CBS, DUF21
Protein Families:	Transmembrane
MW:	86.7 kDa
Gene Summary:	This gene encodes a member of the ancient conserved domain containing protein family. Members of this protein family contain a cyclin box motif and have structural similarity to the cyclins. The encoded protein may play a role in metal ion transport. Mutations in this gene are associated with Jalili syndrome which consists of cone-rod dystrophy and amelogenesis imperfecta. [provided by RefSeq, Feb 2010]

Product images:



Circular map for RC209231



Western blot validation of overexpression lysate (Cat# [LY412607]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209231 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).