

Product datasheet for **MR208185**

Dkc1 (NM_001030307) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dkc1 (NM_001030307) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dkc1
Synonyms:	BC068171
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208185 representing NM_001030307
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGATGCAGAAGTAATTACATTCCCAAAGAAGCATAAGAAGAAAAAGACCGGAAGCCATTACAAG
 AAGATGATGTTGCCGAAATACAACATGCTGAAGAATTTCTATCAAACCAGAATCTAAAGTGCTCAATT
 AGACACTTCTCAGTGGCCCTTGTACTAAAGAATTTTGATAAGCTAAATGTAAGGACAGCACACTATAACA
 CCTCTTCTTGTGGTTCAAATCCTCTGAAGAGGGAGATTGGGGACTATATCAGGACCGGTTTCATTAATC
 TTGACAAGCCCTTAACCCCTCTCCCATGAGGTGGTAGCCTGGATCCGACGAATACTTCGGGTAGAGAA
 GACTGGCCACAGTGGCACACTAGATCCCAAAGTACTGTTGTTAATTGTGTGCATTGAACGAGCCACT
 CGTTTGGTAAATCACAACAGAGTGCAGGCAAAGAGTATGTTGGAATTGCCGGTGCACAATGCTATTG
 AAGGGGTACTCAGCTTTCTAGGGCCCTAGAACTCTGACAGGTGCCCTGTTTCAGCGACCCCACTTAT
 TGCTGCAGTAAAGAGGCAGCTTCGAGTGAAGTACTCTACGAGAGCAAAATGATAGAATATGATCCTGAG
 AGAAGATTAGGAATCTTTTGGGTAAGCTGTGAAGCTGGCACCTACATTCCGACACTATGCGTACACCTTG
 GCTTGTACTGGGAGTTGGTGGTCAGATGCAGGAACCTCCGAGGGTGCCTTCTGGAGTATGAGTAAAA
 GGACCACATGGTGACAATGCATGATGACTCGATGCTCAGTGGCTGTATGATAACCATAAGGATGAGAGT
 TACTTGCGGCGTGTGTTTACCCTTTGGAAAAGCTGTTGACATCTCATAAACGCTGGTTATGAAAGATA
 GTGCAGTGAATGCAATCTGCTATGGGGCAAGATCATGCTTCTGGTCTTCTCGATATGAAGATGGCAT
 TGAGGTCAACCAGGAGATTGTGGTCATTACTACTAAGGGGAAGCTATCTGCATGGCAATTGCATTGATG
 ACTACAGCAGTGAATTTCTACCTGTGACCATGGTATAGTAGCCAAAATAAGAGGGTATCATGAGAGAG
 ACATCTATCCTCGCAAGTGGGGTTTAGGTCCAAAGGCAAGTCAAGAAGAAGATGATGATCAAGCAGGGCCT
 TCTGGACAAGCATGGCAAACCCACAGACAATACCCTGCCACATGGAAACAGGATTACATTGACTATAGT
 GATTCTGGCAAGAACACACTGGTTACCGAAGCAGTACAAGCCCTCAGTTAGCTGCTGAAGCAGTAAATG
 TCATAAAAAGGAAGCGGGATAGTGAGAGTGAAAGTGTAGAGACCCCAACAGTTCCCAAGTTGAAGAAAA
 GAAGAAGAAGAAGGATAAGAAGCCAAAAGTGTGCTAGAAAGTGGGGGCGAAACTGGAGATGGGGACAAC
 GACACCACAAAAGAAAAGAAGAAGAAAGTAAAAGTGGTAGAAGAGATGTCTGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208185 representing NM_001030307
 Red=Cloning site Green=Tags(s)

MADAEVITFPKKHKKKDRKPLQEDDVAEIQHAEFLIKPESKVAQLDTSQWPLLLKNFDKLVNRTAHT
 PLPCGSNPLKREIGDYIRTGFINLDKPSNPSSHEVVAWIRRIIRVEKTGHSGLDPKVTGCLIVCIERAT
 RLVKSQSQSAGKEYVGIIVRLHNAIEGGTQLSRALETLTGALFQRPPLIAAVKRQLRVRTIYESKMI EYDPE
 RRLGIFWVSCEAGTYIRTL CVHLGLLLGVGGQMQLRRVRSVMSEKDHMVTMHDVLD AQWLYDNHKDES
 YLRRVVVPLEKLLTSHKRLVMKDSAVNAICYGAKIMLPGLLRYEDGIEVNQEIIVVITTKGEAICMAIALM
 TTAVISTCDHGI VAKIKRVIMERDTPYPRKWGLPKASQKMMIKQGLLDKHKGPTDNTPATWKQDYIDYS
 DSGKNTLVTEAVQAPQLAAEAVNVIKRKRSESESEDETPVPQLKEKKKKKDKPKTVLESGGETGDGDN
 DTTKKKKKKKVVVEEMSE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_001030307

ORF Size: 1527 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).

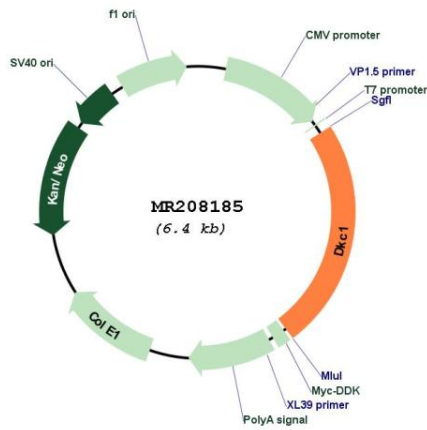
- Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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_001030307.2](#), [NP_001025478.1](#)

RefSeq Size: 2803 bp
RefSeq ORF: 1530 bp
Locus ID: 245474
UniProt ID: [Q9ESX5](#)
Cytogenetics: X A7.3
MW: 57.9 kDa

Gene Summary: Catalytic subunit of H/ACA small nucleolar ribonucleoprotein (H/ACA snoRNP) complex, which catalyzes pseudouridylation of rRNA (PubMed:12522253, PubMed:15240872). This involves the isomerization of uridine such that the ribose is subsequently attached to C5, instead of the normal N1. Each rRNA can contain up to 100 pseudouridine ('psi') residues, which may serve to stabilize the conformation of rRNAs (PubMed:12522253, PubMed:15240872). Required for ribosome biogenesis and telomere maintenance (By similarity). Also required for correct processing or intranuclear trafficking of TERC, the RNA component of the telomerase reverse transcriptase (TERT) holoenzyme (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208185