

Product datasheet for **MG208185**

Dkc1 (NM_001030307) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dkc1 (NM_001030307) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dkc1
Synonyms:	BC068171
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208185 representing NM_001030307
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGATGCAGAAGTAATTACATTCCCAAAGAAGCATAGAAGAAAAAGACCGGAAGCCATTACAAG
 AAGATGATGTTGCCGAAATACAACATGCTGAAGAATTTCTTATCAAACCAGAATCTAAAGTGCTCAATT
 AGACACTTCTCAGTGGCCCTTGTACTAAAGAATTTTGATAAGCTAAATGTAAGGACAGCACACTATAACA
 CCTCTTCTTGTGGTTCAAATCCTCTGAAGAGGGAGATTGGGGACTATATCAGGACCGGTTTCATTAATC
 TTGACAAGCCCTTAACCCCTCTCCCATGAGGTGGTAGCCTGGATCCGACGAATACTTCGGGTAGAGAA
 GACTGGCCACAGTGGCACACTAGATCCCAAAGTACTGTTGTTAATTGTGTCATTGAACGAGCCACT
 CGTTTGGTAAATCACACAGAGTGCAGGCAAAGAGTATGTTGGAATTGCCGGTGCACAATGCTATTG
 AAGGGGTACTCAGCTTTCTAGGGCCCTAGAACTCTGACAGGTGCCCTGTTTCAGCGACCCCACTTAT
 TGCTGCAGTAAAGAGGCAGCTTCGAGTGAAGTACTCTACGAGAGCAAAATGATAGAATATGATCCTGAG
 AGAAGATTAGGAATCTTTTGGGTAAAGCTGTGAAGCTGGCACCTACATTCCGGACACTATGCGTACACCTTG
 GCTTGTACTGGGAGTTGGTGGTCAGATGCAGGAACCTTCGGAGGGTGCCTTCTGGAGTCATGAGTAAAA
 GGACCACATGGTACAATGCATGATGACTCGATGCTCAGTGGCTGTATGATAACCATAAGGATGAGAGT
 TACTTGCGGCGTGTGTTTACCCTTTGGAAAAGCTGTTGACATCTCATAAACGCTGTTTATGAAAGATA
 GTGCAGTGAATGCAATCTGCTATGGGGCAAGATCATGCTTCTGGTCTTCTCGATATGAAGATGGCAT
 TGAGGTCAACCAGGAGATTGTGGTCATTACTACTAAGGGGAAGCTATCTGCATGGCAATTGCATTGATG
 ACTACAGCAGTATTTCTACCTGTGACCATGGTATAGTAGCCAAAATAAGAGGGTGATCATGGAGAGAG
 ACACTTATCCTCGCAAGTGGGGTTTAGGTCCAAGGCAAGTCAAGAAGAAGATGATGATCAAGCAGGGCCT
 TCTGGACAAGCATGGCAAACCCACAGACAATACCCTGCCACATGGAAACAGGATTACATTGACTATAGT
 GATTCTGGCAAGAACACACTGGTTACCGAAGCAGTACAAGCCCTCAGTTAGCTGCTGAAGCAGTAAATG
 TCATAAAAAGGAAGCGGGATAGTGAGAGTGAAAGTGTGAGACCCCAACAGTTCCCCAGTTGAAGGAAAA
 GAAGAAGAAGAAGGATAAGAAGCCAAAAGTGTGCTAGAAAGTGGGGGCGAAACTGGAGATGGGGACAAC
 GACACCACCAAAAAGAAAAGAAGAAGAAAGTAAAAGTGGTAGAAGAGATGTCTGAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG208185 representing NM_001030307
 Red=Cloning site Green=Tags(s)

MADAEVITFPKHKHKKKDRKPLQEDDVAEIQHAEFLIKPESKVAQLDTSQWPLLLKNFDKLVNVRTAHYT
 PLPCGSNPLKREIGDYIRTGFINLDKPSNPSSHEVVAVIRRIILRVEKTGHSGLDLPKVTGCLIVCIERAT
 RLVKSSQSAGKEYVGVIRLHNAIEGGTQLSRALETLTGALFQRPPLIAAVKRQLRVRTIYESKMIEYDPE
 RRLGIFWVSCEAGTYIRTLCVHLGLLLVGGQMQLRRVRSVMSEKDHVMTMHDVLDLDAQWLYDNHKDES
 YLRRVVVYPLEKLLTSHKRLVMKDSAVNAICYGAKIMLPGLLRVEDGIEVNQEIIVVITTKGEAICMAIALM
 TTAVISTCDHGIVAKIKRVIMERDTPYPRKWGLGPKASQKMMIKQGLLDKHGKPTDNTPATWKQDYIDYS
 DSGKNTLVTEAVQAPQLAAEAVNVIKRKRSESESEDETPVLPQLKEKKKKKDKPKTKVLESGETGDGDN
 DTTKKKKKKKVKVVEEMSE

TRTRPLE – GFP Tag – V

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).

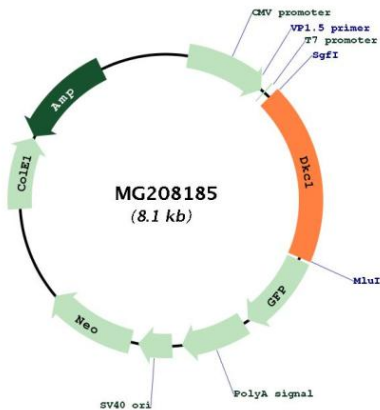
- Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid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

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 MG208185