

Product datasheet for **RC238118**

DKC1 (NM_001288747) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DKC1 (NM_001288747) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DKC1
Synonyms:	CBF5; DKC; DKCX; NAP57; NOLA4; XAP101
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC238118 representing NM_001288747 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGGATGCGGAAGTAATTATTTTGCCAAAGAAACATAAGAAGAAAAAGGAGCGGAAGTCATTGCCAG
AAGAAGATGTAGCCGAAATACAACACGCTGAAGAATTTCTTATCAAACCTGAATCCAAAGTTGCTAAGTT
GGACACGTCTCAGTGGCCCTTTTGGCTAAAGAATTTTGATAAGCTGAATGAAGGACAACACACTATACA
CCTCTTGCATGTGGTCAAATCCTCTGAAGAGAGAGATTGGGGACTATATCAGGACAGGTTTCATTAATC
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GACAGGGCACAGTGGTACTCTGGATCCCAAGGTGACTGGTTGTTAATCGTGTGCATAGAACGAGCCACT
CGCTTGGTGAAGTCACAACAGAGTGCAGGCAAAGAGTATGTGGGGATTGTCCGGCTGCACAATGCTATTG
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TGCTGCAGTAAAGAGGCAGCTCCGAGTGAGGACCATCTACGAGAGCAAAATGATTGAATACGATCCTGAA
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GTTTGTATTGGGAGTTGGTGGTCAGATGCAGGAGCTTCGGAGGGTTCGTTCTGGAGTCATGAGTGAAAA
GGACCACATGGTGACAATGCATGATGTGCTTGTGCTCAGTGGCTGTATGATAACCACAAGGATGAGAGT
TACCTGCGGCGAGTTGTTTACCCTTTGGAAAAGCTGTTGACATCTCATAAACGGCTGGTTATGAAAGACA
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TGAGGTCAATCAGGAGATTGTGGTTATCACCACCAAGGAGAAGCAATCTGCATGGCTATTGCATTAATG
ACCACAGCGGTCTCTCTACCTGCGACCATGGTATAGTAGCCAAGATCAAGAGAGTGATCATGGAGAGAG
ACACTTACCCTCGGAAGTGGGGTTTAGTCCAAAGGCAAGTCAGAAGAAGCTGATGATCAAGCAGGGCCT
TCTGGACAAGCATGGGAAGCCACAGACAGCACACCTGCCACCTGGAAGCAGGAGTATGTTGACTACAGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC238118 representing NM_001288747
Red=Cloning site Green=Tags(s)

MADA EVIILPKKHKKKKERKSLPEEDVAEIQHAEFLIKPESKVAKLDTSQWPLLLKNFDKLNVRTTHYT
 PLACGSNPLKREIGDYIRTGFINLDKPSNPSSHEVVAWIRRIIRVEKTGHSGTLDPKVTGCLIVCIERAT
 RRLVKSQQSAGKEYVIGIVRLHNAIEGGTQLSRALETLTGALFQRPPLIAAVKRQLRVRTIYESKMIEYDPE
 RRLGIFWVYSCAAGTYIRTL CVHLGLLLGVGGQMQLRRVRSQVMSEKDHVMTMHDVLDLDAQWLYDNHKDES
 YLRRVVYPLEKLLTSHKRLVMKDSAVNAICYGAKIMLPGLVRYEDGIEVNQEIYVITTKGEAICMAIALM
 TTA VISTCDHGIVAKIKRVIMERDTPRKWGLGPKASQKMLMIKQGLLDKHGKPTDSTPATWKQEYVDYR

TRTRPLEQKLISEEDLANDILDYKDDDDKV

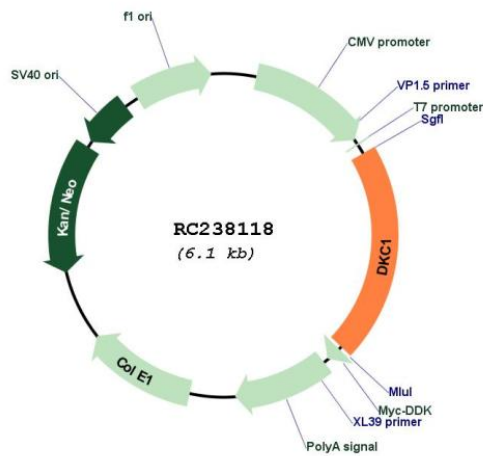
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001288747

ORF Size:	1260 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:	<ol style="list-style-type: none">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_001288747.1 , NP_001275676.1
RefSeq Size:	3097 bp
RefSeq ORF:	1263 bp
Locus ID:	1736
UniProt ID:	O60832
Cytogenetics:	Xq28
Protein Families:	Druggable Genome
MW:	48.1 kDa
Gene Summary:	This gene functions in two distinct complexes. It plays an active role in telomerase stabilization and maintenance, as well as recognition of snoRNAs containing H/ACA sequences which provides stability during biogenesis and assembly into H/ACA small nucleolar RNA ribonucleoproteins (snoRNPs). This gene is highly conserved and widely expressed, and may play additional roles in nucleo-cytoplasmic shuttling, DNA damage response, and cell adhesion. Mutations have been associated with X-linked dyskeratosis congenita. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]