

Product datasheet for **SC119282**

DKC1 (NM_001363) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DKC1 (NM_001363) Human Untagged Clone
Tag:	Tag Free
Symbol:	DKC1
Synonyms:	CBF5; DKC; DKCX; NAP57; NOLA4; XAP101
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC119282 sequence for NM_001363 edited (data generated by NextGen Sequencing)

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ATGGCGGATGCGGAAGTAATTATTTTGGCCAAAGAAACATAAGAAGAAAAAGGAGCGGAAG
TCATTGCCAGAAGAAGATGTAGCCGAAATACAACACGCTGAAGAATTTCTTATCAAACCT
GAATCCAAAGTTGCTAAGTTGGACACGTCTCAGTGGCCCTTTTGCTAAAGAATTTTGAT
AAGCTGAATGTAAGGACAACACACTATACACCTTTGCATGTGGTTCAAATCCTCTGAAG
AGAGAGATTGGGACTATATCAGGACAGGTTTCATTAATCTTGACAAGCCCTCTAACCCC
TCTTCCCATGAGGTGGTAGCCTGGATTGACGGATACTTCGGGTGGAGAAGACAGGGCAC
AGTGGTACTCTGGATCCCAAGGTGACTGGTTGTTAATCGTGTGCATAGAACGAGCCACT
CGCTTGGTGAAGTCACAACAGAGTGCAGGCAAAGAGTATGTGGGGATTGTCCGGTGCAC
AATGCTATTGAAGGGGGACCCAGCTTTCTAGGGCCCTAGAACTCTGACAGGTGCCTTA
TTCCAGCGACCCCACTTATTGCTGCAGTAAAGAGGCAGCTCCGAGTGAGGACCATCTAC
GAGAGCAAATGATTGAATACGATCCTGAAAGAAGATTAGGAATCTTTGGGTGAGTTGT
GAGGCTGGCACCTACATTCGGACATTATGTGTGCACCTTGGTTTGTATTGGGAGTTGGT
GGTCAGATGCAGGAGCTTCGGAGGGTTCGTTCTGGAGTCATGAGTGAAAAGGACCACATG
GTGACAATGCATGATGTGCTTGATGCTCAGTGGCTGTATGATAACCACAAGGATGAGAGT
TACCTGCGGCGAGTTGTTTACCCTTTGGAAAAGCTGTTGACATCTCATAAACGGCTGGTT
ATGAAAGACAGTGCAGTAAATGCCATCTGCTATGGGGCCAAGATTATGCTTCCAGGTGTT
CTTCGATATGAGGACGGCATTGAGGTCAATCAGGAGATTGTGGTTATCACCACCAAAGGA
GAAGCAATCTGCATGGCTATTGCATTAATGACCACAGCGGTCACTCTACCTGCGACCAT
GGTATAGTAGCCAAGATCAAGAGAGTGATCATGGAGAGAGACTTACCCTCGGAAGTGG
GGTTTAGTCCAAAGGCAAGTCAGAAGAAGCTGATGATCAAGCAGGGCCTTCTGGACAAG
CATGGGAAGCCACAGACAGCACACCTGCCACCTGGAAGCAGGAGTATGTTGACTACAGT
GAGTCTGCCAAAAAAGAGGTGGTTGCTGAAGTGGTAAAAGCCCCGAGGTAGTTGCCGAA
GCAGCAAAAAGTCCGAAGCGGAAGCGAGAGAGTGAGAGTAAAAGTGACGAGACTCCTCCA
GCAGCTCCTCAGTTGATCAAGAAGGAAAAGAAGAGTAAGAAGGACAAGAAGGCCAAA
GCTGGTCTGGAGAGCGGGGCCGAGCCTGGAGATGGGGACAGTGATACCACCAAGAAGAAG
AAGAAGAAGAAGAAGCAAAAGAGGTAGAATTGGTTTCTGAGTAG
    
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Clone variation with respect to NM_001363.3

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_001363 unedited
AATACGACTCACTATAGGGCGGCCGCAATTTCGGCACGAGGCGGCTGTGGACCGGGCGGC
ACGCACGCGGTGCAGGGTAACATGGCGGATGCGGAAGTAATTATTTTGGCCAAAGAAACAT
AAGAAGAAAAAGGAGCGGAAGTCATTGCCAGAAGAAGATGTAGCCGAAATACAACACGCT
GAAGAATTTCTTATCAAACCTGAATCCAAAGTTGCTAAGTTGGACACGTCTCAGTGGCCC
CTTTTGTAAAGAATTTTGATAAGCTGAATGTAAGGACAACACACTATACACCTTTGCA
TGTGGTTCAAATCCTCTGAAGAGAGAGATTGGGGACTATATCAGGACAGGTTTCATTAAT
CTTGACAAGCCCTCTAACCCCTCTTCCCATGAGGTGGTAGCCTGGATTGACGGATACTT
CGGGTGGAGAAGACAGGGCACAGTGGTACTCTGGATCCCAAGGTGACTGGTTGTTAATC
GTGTGCATAGAACGAGCCACTCGCTTGGTGAAGTACAACAGAGTGCAGCAAAGAGTATG
TGGGGATTGTCCGGTGCACAATGCTATTGAAGGGGGACCCAGCTTTCTAGGGCCCTAG
AAACTCTGACAGGTGCCTTATTCAGCGACCCCACTTATTGCTGCAGTAAAGAGGCAGC
TCCGAGTGAGGACCATCTACGAGAGCAAATGATTGAATACGATCCTGAAAGAAATTANGA
ATCTTTTGGNGGTGAGTGTGAGGCTGGCACCTCATTGACATTATGTGTGCACCTTGGTT
NGTATTGAAANTTGTGGCAATGCAGACTTTNNNAGGGGGTTCGTTCTGAGTCATAGTGA
AAGGACACATGTGACAGCCTGAGTGCTGAGGCTATGGCTGATGAACACAGGAGAAAGTCT
GGGCGATTGTTACTTGGAAAGCGTGATTCTAACGCGGTTT
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_001363 unedited CGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCAAATAGGACATA AAGGTCCCTAAATTTTTAATCAAAATATTTTACAATTTTTGCTCTGCTAGCATGAGATCA ACAAGAAAACCCAACAGGAATACATAAAAACTTAACAAGTTGACTTTAATAAGTAAAA TTACAACATTTCTCTCCAGCAATGAACAATTTTATTTTTAAAAGTAAACGAGGCCTAA AACAAAGAGGGCACAGGAACAAGTAGTCAGATGGATTTAGGTGAGCACTGTACACAAGCTT TGAGGAAGTGCAAAGGACTGACCTCTAGGCCAGAACAAGATGGA AAACTACCAGGCCCAT CGGGCCTATAACCCAGACACCAGCATGGACAAAACCTCAGTTATACTGAATTCAGAGACAA AATTCAGTGACTCTTCTACCCTTATTTAGGGTTCTACAGCATTCTACTGAGCAGACT TAGTTTTTTGTTTTGTTTTACAAACCTTTTAAACAGAGGGGATTTAAAAATGCAAACT AGGACTACGATGTTAAGACAACCACTAGCAGACAGCTGCGGACAGTTACTGGGTCTGAAG GTGAGGCTTCCCAACTCAAACAGAGAAGTCATTGGGATAAACTCTGCCTCTTTCATCTTT CACCACCCATATCCTTAAAACAGGACAAGATGGGATGACCACACCAGGTAACATCACC GGTCTCAAAGTAGCAGCTAAAATGTGCCAGAACTCTTACCCTGTCTAGGACCTATGTT CACTCTCTCAGCAACAAAAGGATCTATAACATGGGTTTCTCAATAAGGGCTTTAGTTTCT CCTCCAGCTTCAAGTGGCCTTCACTACTCAGAACCCNANTNCTACCTCTTNGGGCTTCT CTCTTCTTCTTCTTGGGGTATCACTGGNCCATTTCCAGGCTCGGGCCCGCTCTCAA AACAGATTTGCCTT
Restriction Sites:	NotI-NotI
ACCN:	NM_001363
Insert Size:	2450 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_001363.2 , NP_001354.1
RefSeq Size:	2465 bp
RefSeq ORF:	1545 bp
Locus ID:	1736
UniProt ID:	O60832
Cytogenetics:	Xq28
Domains:	PUA, TruB_N

Protein Families: Druggable Genome

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]
Transcript Variant: This variant (1) encodes the longest isoform (1).