

Product datasheet for **SC210364**

KIAA1967 (CCAR2) (NM_021174) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	KIAA1967 (CCAR2) (NM_021174) Human 3' UTR Clone
Symbol:	KIAA1967
Synonyms:	DBC-1; DBC1; KIAA1967; NET35; p30 DBC; p30DBC
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_021174
Insert Size:	1862 bp



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Insert Sequence: >SC210364 3'UTR clone of NM_021174
The sequence shown below is from the reference sequence of NM_021174. The complete sequence of this clone may contain minor differences, such as SNPs.
Blue=Stop Codon **Red**=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAACACGATCGCC
GAGAAGGAGGAGCGGCACCTAGCAACTCCGGCCCTCGCACGGAAGTCCATCCTGTGAGGGCAGCGGT
GGCGCCCGGCAAAAGTTGGAGCCCTTGCGGTACCGAGAAAGCAGCGAGAGCGAGACCTGGGAGCCAGGGCA
GGGGTGGCTGACCCCATGCTCAGCCTCTAGGGGACGGCAGGCCATCAGGCTGGGGCTGTGCTATGTGG
GATGGATGTGTGAGGAACCCCGTTCCACTTAACAATAAATAACAATCTTTTGACCCCTAGAATGT
CATTTTGCCTCAACCTTGGTATTTCTCCTGGGGCCCTTTAGTCTTGTGCTGACTTTCTCTGTCTCTC
TTCCAGTTTGAATAAGACAGGGGAGAAAAAGGCTTTTCGAGTGTGGGACAAGGTCTGATGTCAGTGAA
CGGAAGTGAAGAGCAAGACATGGAGCCTGGCTGGGGCTAAGCAGCCCCCTCTCCGGATGGCACAGGCT
CTGCTAGGTTCCGGACACAGGCTTCTGGGGGAAGGGTCTCCCTTGCCATCACGGGAATGGAGTCCATG
CTAGAAAGAGCTCAGTGTGGGGTGGGTTTGCCAGTAGAACACTGCGTTCCAGTACCCCCGTCTTGCC
AGAAGAAACACAGCACCTCTTCCCGTGGCTCCTGTGTTCAAGATGTGGTATTGGCTCTGGCCAGCCTT
CTCCCCTGTTACCCATAATTCTTGCCTCTTCCATAATCCGTGGTTTCAGTTTGACTTTGTATATAAAG
TTGGGGTTTTTTTTTTTTTTTTTGGCTGTGTTTTTAAATAAACCAAGTCAAAAACAACTGAGAGTG
TGTCTCCACAGCTCTTCTACTCTCCTAGGCTTGCCCGCTGCCCTCCACCCAGCGCCTCTGTGGA
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GCTGCCTGCTGGAGGGTCTGCTGCTCCGTGGAGGGCAGCAGGCCAGGAAGGGGTTCTCTGCTCGC
CTAAGTTACAGCACAACTACTATGTGGACGTTTTCATTGAAAATTTTACTTGAAAAATAAATTCAGAT
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TAGCCAACGAAGCCCATGGCCTCAGAAGGGCTGCAGCTTGCTCAGGCCGTGGGCCAGGATGCATGCTGG
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AGACGGCGGCCTGCCTAGGGCTCCTGGTGCCAGGCTCAGGAAGAGTCATTATTGCAAAGGGCCGGCAA
GTGAACCAAGGGCACCTCTGTCCCGAGCCTGTGAGAGGAGCAGTAGCCCTGAGAAGGGCAAGGATGAA
TGAGGCTGACCAGTACAGGAGTCTCAAGAGTGACGGGGATTCAATCATCGGCCACAATGGAGAGG
GCCCCGAGCTCACTGAGTTTGGCCTCGTTCTCCCGCTCCCGCTGCTCATCGGAGTGGCCTGGCTGGTC
ACGCGTAAGCGGCCGCGGCATCTAGATTCAAGAAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
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Restriction Sites: Sgfl-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: [NM_021174.6](#)

Summary:

Core component of the DBIRD complex, a multiprotein complex that acts at the interface between core mRNP particles and RNA polymerase II (RNAPII) and integrates transcript elongation with the regulation of alternative splicing: the DBIRD complex affects local transcript elongation rates and alternative splicing of a large set of exons embedded in (A + T)-rich DNA regions. Inhibits SIRT1 deacetylase activity leading to increasing levels of p53/TP53 acetylation and p53-mediated apoptosis. Inhibits SUV39H1 methyltransferase activity. As part of a histone H3-specific methyltransferase complex may mediate ligand-dependent transcriptional activation by nuclear hormone receptors. Plays a critical role in maintaining genomic stability and cellular integrity following UV-induced genotoxic stress. Regulates the circadian expression of the core clock components NR1D1 and ARNTL/BMAL1. Enhances the transcriptional repressor activity of NR1D1 through stabilization of NR1D1 protein levels by preventing its ubiquitination and subsequent degradation (PubMed:18235501, PubMed:18235502, PubMed:19131338, PubMed:19218236, PubMed:22446626, PubMed:23352644, PubMed:23398316). Represses the ligand-dependent transcriptional activation function of ESR2 (PubMed:20074560). Acts as a regulator of PCK1 expression and gluconeogenesis by a mechanism that involves, at least in part, both NR1D1 and SIRT1 (PubMed:24415752). Negatively regulates the deacetylase activity of HDAC3 and can alter its subcellular localization (PubMed:21030595). Positively regulates the beta-catenin pathway (canonical Wnt signaling pathway) and is required for MCC-mediated repression of the beta-catenin pathway (PubMed:24824780). Represses ligand-dependent transcriptional activation function of NR1H2 and NR1H3 and inhibits the interaction of SIRT1 with NR1H3 (PubMed:25661920). Plays an important role in tumor suppression through p53/TP53 regulation; stabilizes p53/TP53 by affecting its interaction with ubiquitin ligase MDM2 (PubMed:25732823). Represses the transcriptional activator activity of BRCA1 (PubMed:20160719). Inhibits SIRT1 in a CHEK2 and PSEM3-dependent manner and inhibits the activity of CHEK2 in vitro (PubMed:25361978).[UniProtKB/Swiss-Prot Function]

Locus ID:

57805

MW:

67.9