

Product datasheet for **SC337894**

DIS (CCAR1) (NM_001282960) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DIS (CCAR1) (NM_001282960) Human Untagged Clone
Tag:	Tag Free
Symbol:	CCAR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001282960, the custom clone sequence may differ by one or more nucleotides

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ATGGCTCAATTTGGAGGACAGAAGAATCCGCCATGGGCTACTCAGTTTACAGCCACTGCAGTATCACAGC
CAGCTGCACTGGGTGTTCAACAGCCATCACTCCTTGGAGCATCTCCTACCATTTATACACAGCAAAGTGC
ATTGGCAGCAGCAGGCCCTTACCACAAAACCCAGCAAATATCAGTTAACACAAAACCTGCTGCATTGCAG
CAACAAGCCGAGCTGCAGCAGCTGCATTACAACAGTTACAGCAACCCAGCAAACCCCTCTTAACACAGC
CAGCTGTTGCACTGCCTACAAGCCTTAGCCTGTCTACTCCTCAGCCAACAGCACAATAACTGTATCATA
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AAACTACATGATACGTTTGGATTTGGGATGAAGATGTATTCTTTCAGCTTAGTGTGCTCAAAGGGAAAA
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GTACTTCAGCCAATTGCACCACAGACAACATTTGGTGTTCAGACTCAGCCCCAGCCCCAGTCACTGCTGC
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CCTTCGTTGGATGGACCAGACCCAGAAAAAGATCCCTCTGTGTTGATTAAGACTGCTATTCGTTGTTGTA
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CCCTGAGGAGACCCACAAGGGGCTACAGTTCAGCTCATGTGGAGACAGTGGTTTTATTTTTCCCGGAT
GTTTGGCATTGCCTTCCACCCGCTCAGAGTGGGAAACCTCTCCGAGGATACAAGCAGCAGCTGGTGC
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AGAAGCTTCAGGGTGAACGCAAGGAGGCTGATGGAGAACAGGATGAAGAAGAGAAGGATGATGGTGAAGC
TAAAGAAATTTCTACACCTACCCATTGGTCTAAACTTGATCCAAAGACAATGAAGGTAATGACCTCCGA
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ACCTTAGTCAGTTACAAGAAAACCTAAAGATTTTCGAAAACATGAATTTACAATTTGAAAACCAATGAA
TAAGACAATCAGAACTTATCTACGGTAATGGATGAAATCCACACTGTTCTCAAGAAGGATAATGTAAG
AATGAAGACAAAAGATCAAAAATCCAAGGAGAATGGTGCCAGTGTATGA
    
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Restriction Sites: SgfI-MluI

ACCN: NM_001282960

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:

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_001282960.1](#), [NP_001269889.1](#)

RefSeq Size: 4724 bp

RefSeq ORF: 3408 bp

Locus ID: 55749

UniProt ID: [Q8IX12](#)

Cytogenetics: 10q21.3

Gene Summary: Associates with components of the Mediator and p160 coactivator complexes that play a role as intermediaries transducing regulatory signals from upstream transcriptional activator proteins to basal transcription machinery at the core promoter. Recruited to endogenous nuclear receptor target genes in response to the appropriate hormone. Also functions as a p53 coactivator. May thus play an important role in transcriptional regulation (By similarity). May be involved in apoptosis signaling in the presence of the reagent CD437. Apoptosis induction involves sequestration of 14-3-3 protein(s) and mediated altered expression of multiple cell cycle regulatory genes including MYC, CCNB1 and CDKN1A. Plays a role in cell cycle progression and/or cell proliferation (PubMed:12816952). In association with CALCOG1 enhances GATA1- and MED1-mediated transcriptional activation from the gamma-globin promoter during erythroid differentiation of K562 erythroleukemia cells (PubMed:24245781). Can act as both a coactivator and corepressor of AR-mediated transcription. Contributes to chromatin looping and AR transcription complex assembly by stabilizing AR-GATA2 association on chromatin and facilitating MED1 and RNA polymerase II recruitment to AR-binding sites. May play an important role in the growth and tumorigenesis of prostate cancer cells (PubMed:23887938). [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (3) lacks an alternate in-frame exon in the 5' coding region compared to variant 1. This results in a shorter protein (isoform b), compared to isoform a. Variants 2 and 3 encode the same isoform (b).