

## Product datasheet for **RC239999**

### DIS (CCAR1) (NM\_001282959) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DIS (CCAR1) (NM_001282959) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CCAR1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC239999 representing NM_001282959 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

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```

**ACGCGT**ACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC239999 representing NM\_001282959  
**Red**=Cloning site **Green**=Tags(s)

```
MAQFGGQKNPPWATQFTATAVSQPAALGVQPSLLGASPTIYTQQTALAAAGLTTQTANYQLTQTAALQ
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DPPSRFSGRNDRGDQVPNRKDDRSRERERERRSRERSRERSRERSRERSRERSRERSRERSRERSRERS
FSKFLDCPSCDMMELRRRYQNLVIPSDFFDAQFTWVDAFPLSRPFQLGNFCNFVVMHREVESELEKNMAI
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PSLDGPDPEKDPVSVL IKTAIRCCALKTGIDL SVCTQWYRFAEIRYHRPEETHKGRTVPAHVETVVLFFPD
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KDDDETEEDNNQDEYDPEAEEAEDEEDDRDEEEMTKRDDKRDINRYCKERPSKDKEKEKTQMITINRDL
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QEDMLGNRLLLP TPTVKQESKDVEENVGLIVYNGAMVDVGSLLQKLEKSEKVRAEVEQLQLLEEKTD
EKTILNLENSNKSLSGELREVKKDLSQLQENLKI SENMNLQFENQMKTIRNLSTVMDEIHTVLKKNV
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```

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

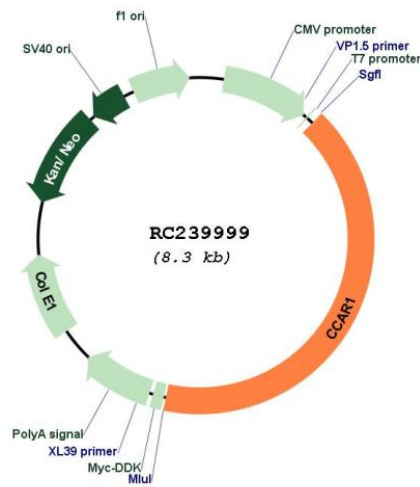
**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001282959

ORF Size: 3405 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:**

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\\_001282959.2](#)

**RefSeq Size:** 4730 bp

**RefSeq ORF:** 3408 bp

**Locus ID:** 55749

**UniProt ID:** [Q8IX12](#)

**Cytogenetics:** 10q21.3

**MW:** 131.5 kDa

**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 renoind 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 CALCOCO1 enhances GATA1- and MED1-mediated transcriptional activation from the gamma-globin promoter during erythroid differentiation of K562 erythroleukemia cells (PubMed:24245781). Can act as a 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]