

Product datasheet for **RG224293**

DIS (CCAR1) (NM_018237) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DIS (CCAR1) (NM_018237) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DIS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG224293 representing NM_018237 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCAATTTGGAGGACAGAAGAATCCGCCATGGGCTACTCAGTTTACAGCCACTGCAGTATCACAGC
CAGCTGCACTGGGTGTTCAACAGCCATCACTCCTTGGAGCATCTCCTACCATTTATACACAGCAAAGTGC
ATTGGCAGCAGCAGGCCCTTACCACAAACTCCAGCAAATATCAGTTAACACAAACTGCTGCATTGCAG
CAACAAGCCGACGCTGCAGCAGCTGCATTACAACAGCAATATTCACAACCTCAGCAGGCCCTGATAGTG
TGCAACAACAGTTACAGCAACCCAGCAAACCTCTTAACACAGCCAGCTGTTGCATGCCTACAAGCCT
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TGTGTGCACACAATGGTACCGTTTTGCAGAGATTCGCTACCATCGCCCTGAGGAGACCCACAAGGGGCGT
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 GTAATGGATGAAATCCACACTGTTCTCAAGAAGGATAATGTAAGAATGAAGACAAAGATCAAAAATCCA
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

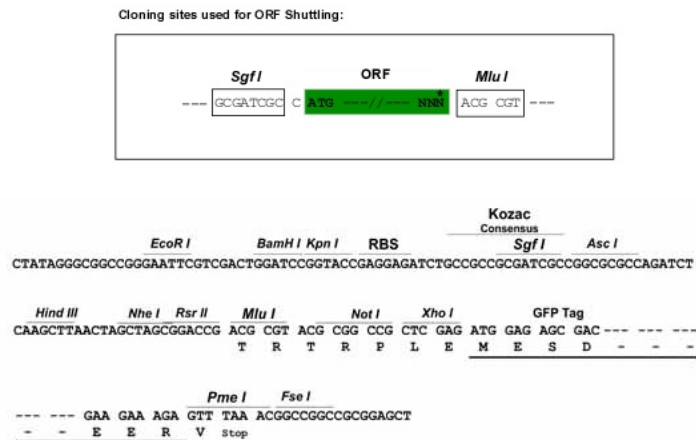
>RG224293 representing NM_018237
 Red=Cloning site Green=Tags(s)

MAQFGGQKNPPWATQFTATAVSPQALGVQPSLLGASPTIYTQQTALAAAGLTTQTPANYQLTQTAALQ
 QQAAAAAALQQYSQPQALYSVQQQLQPPQQLTQPVALPTSLSLSTPQPTAQITVSYPTRSSQQ
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 VMHREVESLEKNMAILDPPDADHLYSKAVMLMASPSMEDLYHKSCAL AEDPQELRDGFQHPARLVKFLVG
 MKGKDEAMAIGHWSPSLDGPDPKDPVSLIKTAIRCKKALTGIDL SVCTQWYRFAEIRYHRPEETHKGR
 TVPAHVE TVVLFPPDVWHCLPTRSEWETLSRGYKQLVEKLQGERKEADGEQDEEEKDDGEAKEISTPTH
 WSKLDPKTMKVNDLRKELESRALSSKGLKSQLIARLTKQLKVEEQKEEQELEKSEKEEDEDDDRKSEDD
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 AELFNEMLRDFGVRIYKSLLSLPEKEDKKEKDKKSKKDERKDKKEERDDETDPEPKRRKSGDDKDKKE
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 KEKEKTQMITINRDLLMAFVYFDQSHCGYLLEKDLLEEILYTLGLHL SRAQVKLLLNKVVLRESCFYRKL
 DTSKDEENHEESESLQEDMLGNRLLLPTPTVKQESKDVEENVGLIVYNGAMVDVGSLLQKLEKSEKVRAE
 VEQKLQLLEKTDDEKTI LNLENSNKSLSGELREVKKDLSQLQENLKI SENMNLQFENQMNKTI RNLST
 VMDEIHTVLKKNVKNEDKDKQSKENGASV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018237

ORF Size: 3450 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_018237.4](#)

RefSeq Size: 3858 bp

RefSeq ORF: 3453 bp

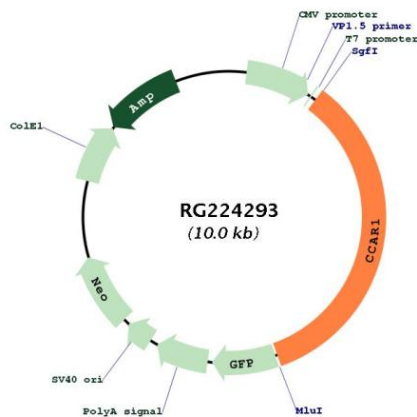
Locus ID: 55749

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 reinoid 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]

Product images:



Circular map for RG224293