

## Product datasheet for **RC229829**

### DCI (ECI1) (NM\_001178029) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DCI (ECI1) (NM_001178029) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DCI
Synonyms:	DCI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC229829 representing NM_001178029 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGCTGGTGGCTTCTGTGCGAGTCCCGGCGCGGTTCTGCTCCGCGCGGGGGCCCGGCTCCCGGGCG  
CGGCCCTCGGGCGGACGGAGCGGGCGGCCGGCGGAGACGGCGCGGGCGCTTCGGGAGCCAGCGGGT  
GCTGGTGGAGCCGGACCGGGCGCAGGGGTCGCTGTGATGAAATCAAGAACCCCCAGTGAACAGCCTG  
AGCCTGGAGTTTCTGACGGAGCTGGTATCAGCCTGGAGAAGCTGGAGAATGACAAGAGCTTCCGCGGTG  
TCATTCTGACCTCGGACCGCCGGGTGTCTTCTCGGCCGCGCTGGACCTGACGGAGATGTGTGGGAGGAG  
CCCCGCCACTACGCTGGTACTGGAAGCCGTTCAAGGAGCTGTGGCTGCGGTTGTACCAGTCCAACCTG  
GTGCTGGTCTCCGCCATCAACGGAGCCTGCCCGCTGGAGGCTGCCTGGTGGCCCTGACCTGTGACTACC  
GCATCCTGGCGGACAACCCAGGTTGAAAGACACCCTGGAGAACCACATCGGGCACCGGGCGGGGAGCG  
TGCCCTGCAGCTGGGGCTGCTTCCCGCCGGCGGAGGCCCTGCAGGTGGGCATAGTGGACCAGGTGGTC  
CCGGAGGAGCAGGTGCAGAGCACTGCGCTGTGAGCGATAGCCAGTGGATGGCCATTCCAGACCATGCTC  
GACAGCTGACCAAGGCCATGATGCGAAAGGCCACGGCCAGCCGCTGGTACGCAGCGGATGCGGACGT  
GCAGAACTTCGTCAGCTTCATCTCCAAAGACTCCATCCAGAAGTCCCTGCAGATGTACTTAGAGAGGCTC  
AAAGAAGAAAAAGGC

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC229829 representing NM\_001178029  
Red=Cloning site Green=Tags(s)

MALVASVRVPARVLLRAGARLPGAALGRTERAAGGGDGARRFGSQRVLVEPDAGAGVAVMKFKNPPVNSL  
 SLEFLTELVISLEKLENDKSRFGVILTSRPGVF SAGLDLTEMCGRSPAHYAGYWKAVQELWRL YQSNL  
 VLVSAINGACPAGGCLVALTCDYRILADNPRLKDTLENTIGHRAAERALQLGLLFPFAEALQVGI VQV  
 PEEQVQSTALSAIAQWMAIPDHARQLTKAMMRKATASRLVTQRDADVQNFVVSFISKDSIQKSLQMYLERL  
 KEEKG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8037\\_b08.zip](https://cdn.origene.com/chromatograms/mk8037_b08.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001178029

**ORF Size:** 855 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\\_001178029.2](#)

**RefSeq ORF:** 858 bp

**Locus ID:** 1632

**UniProt ID:** [P42126](#)

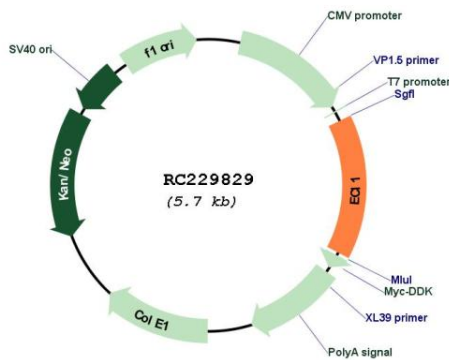
**Cytogenetics:** 16p13.3

**Protein Pathways:** Fatty acid metabolism

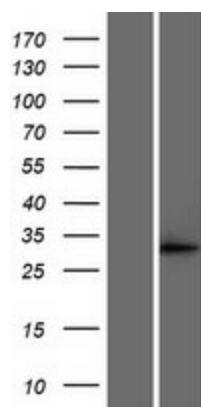
**MW:** 31.3 kDa

**Gene Summary:** This gene encodes a member of the hydratase/isomerase superfamily. The protein encoded is a key mitochondrial enzyme involved in beta-oxidation of unsaturated fatty acids. It catalyzes the transformation of 3-cis and 3-trans-enoyl-CoA esters arising during the stepwise degradation of cis-, mono-, and polyunsaturated fatty acids to the 2-trans-enoyl-CoA intermediates. Alternatively spliced transcript variants have been described. [provided by RefSeq, May 2010]

**Product images:**



Circular map for RC229829



Western blot validation of overexpression lysate (Cat# [LY432829]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC229829 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).