

Product datasheet for **RG200871**

DCI (ECI1) (NM_001919) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DCI (ECI1) (NM_001919) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DCI
Synonyms:	DCI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200871 representing NM_001919 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCTGGTGGCTTCTGTGCGAGTCCCGCGCGCGTTCTGCTCCGCGCGGGGGCCCGGCTCCCGGGCG
CGGCCCTCGGGCGGACGGAGCGGGCGGCCGGCGGAGACGGCGCGGGCGCTTCGGGAGCCAGCGGGT
GCTGGTGGAGCCGACCGGGCGCAGGGTTCGCTGTGATGAAATCAAGAACCCCAAGTGAACAGCCTG
AGCCTGGAGTTTCTGACGGAGCTGGTATCAGCCTGGAGAAGCTGGAGAATGACAAGAGCTTCCGCGGTG
TCATTCTGACCTCGGACCGCCCGGTGTCTTCTCGGCCGCGCTGGACCTGACGGAGATGTGTGGGAGGAG
CCCGCCCACTACGCTGGTACTGGAAGCCGTTCAAGGAGCTGTGGCTGCGGTTGTACCAGTCCAACCTG
GTGCTGGTCTCCGCCATCAACGGAGCCTGCCCGCTGGAGGCTGCCTGGTGGCCCTGACCTGTGACTACC
GCATCCTGGCGGACAACCCAGGTAAGTGCATAGGACTCAATGAGACCCAGCTGGGCATCATCGCCCTTT
CTGGTTGAAAGACACCCTGGAGAACACCATCGGGCACCAGGGCGGCGGAGCGTGCCTGCAGCTGGGGCTG
CTTCCCGCGGGCGGAGGCCCTGCAGGTGGGCATAGTGGACCAGGTGGTCCCGGAGGAGCAGGTGCAGA
GCACTGCGCTGTAGCGATAGCCAGTGGATGGCCATCCAGACCATGCTCGACAGCTGACCAAGGCCAT
GATGCGAAAGGCCACGGCCAGCCGCTGGTCACGCAGCGCGATGCGGACGTGCAGAACTTCGTAGCTTC
ATCTCAAAGACTCCATCCAGAAGTCCCTGCAGATGTACTTAGAGAGGCTCAAAGAAGAAAAGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200871 representing NM_001919
Red=Cloning site Green=Tags(s)

MALVASVRVPARVLLRAGARLPGAALGRTERAAGGGDGARRFGSQRVLEVPDAGAGVAVMKFKNPPVNSL
 SLEFLTELVISLEKLENDKSFRGVILTSDRPGVF SAGLDLTEMCGRSPAHYAGYWKAVQELWLRLYQSNL
 VLVSAINGACPAGGCLVALTCDYRILADNPRYCIGLNETQLGIIAPFWLKDLENTIGHRAERALQLGL
 LFPPAEALQVGIVDQVVPVEEQVQSTALSAIAQWMAIPDHARQLTKAMMRKATASRLVTQRDADVQNFVSF
 ISKDSIQKSLQMYLERLKEEKG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001919

ORF Size: 906 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_001919.4](#)

RefSeq Size: 1069 bp

RefSeq ORF: 909 bp

Locus ID: 1632

UniProt ID: [P42126](#)

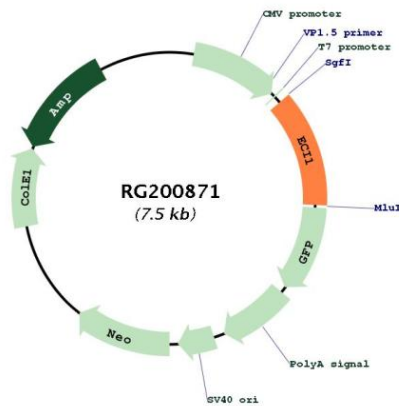
Cytogenetics: 16p13.3

Domains: ECH

Protein Pathways: Fatty acid metabolism

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 RG200871