

## Product datasheet for **RC226888**

### **DCST1 (NM\_001143687) Human Tagged ORF Clone**

#### **Product data:**

|                                  |                        |
|----------------------------------|------------------------|
| <b>Product Type:</b>             | Expression Plasmids    |
| <b>Tag:</b>                      | Myc-DDK                |
| <b>Symbol:</b>                   | DCST1                  |
| <b>Mammalian Cell Selection:</b> | Neomycin               |
| <b>Vector:</b>                   | pCMV6-Entry (PS100001) |
| <b>E. coli Selection:</b>        | Kanamycin (25 ug/mL)   |



**ORF Nucleotide Sequence:** >RC226888 representing NM\_001143687  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGACATTAACATCATCAGAATGGCACAAGAGGGCAAAGAAGAAAACAGCCTCATACCACGGTGCAGA  
 GGCTCCTGACCTGGGGGCTGCCAGTCTCCTGTAGCTGGTTCTGTGGCGCCAGCCGGGCGAGTTTCTGT  
 CACTGCTCTCCTGTGGGGGAGGCGCTGGGGGCTCCTGGCCATAGGCTTGGGGGCGATGGGCTGGGGG  
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 GAGTCTACGTGTGCCGAGCCTGGACTGCGAGGCCGTGACTGCTGGTGTGCTGGGACGACATGCGGC  
 AGCGGTGCCCGTCTGCACGCCCGCGAAGAGCTCTCTTCTCCGCTTTAGTGACAGCAACGACGACAC  
 TGCCACCGGGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC226888 representing NM\_001143687  
 Red=Cloning site Green=Tags(s)

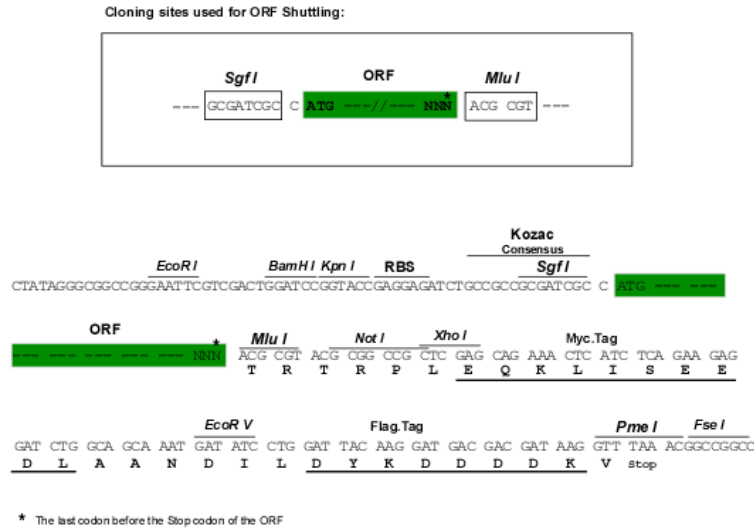
MDIKHHQNGTRGQRRKQPHHTTVQRLLTWGLPVSCSWFLWRQPGFVPVATLLLGAGAGLLAIGLGAMGWG  
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 TQKMYELKTKLRCSYVVNQAILSCRWFRDKHEQCMKHIWVPLLTHLLCLPMKFKFFCGIAKVMVWCNR  
 RIPVEGNFGQTYDSLNSIRGLDGEFSANIDFKEEKQAGVGLNLSWERVSTEVDRDYVYRQEARLEWALG  
 LLHVLSCFTLLVLHASFYMDSYNHDIFDNIYISTYFCQIDRRKKLGKRTLLPLRKAEEKTVIFPK  
 PTIQASEMSNVVRELLETLPILLLLVVLCLDWALYSIFDTRHHSFLQYSFRSSHKLEVKVGGDSMLAR  
 LLRKTIGALNTSSETVMESNNMPLPQPVGLDARAYWRAAVPIGLLVCLLQAFGYRLRRVIAAFYFPK  
 REKKRILFLYNDLLKKRAAFTKLRRRAILRRERQQKAPRHPLADILHRGCPLLRWLCRRCVVCQAPETP  
 ESYVCRITLDCEAVYCWSCWDDMRQPCVTPREELSSAFSDSNDDTAYAG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mk8072\\_f12.zip](https://cdn.origene.com/chromatograms/mk8072_f12.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_001143687

ORF Size: 2043 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.

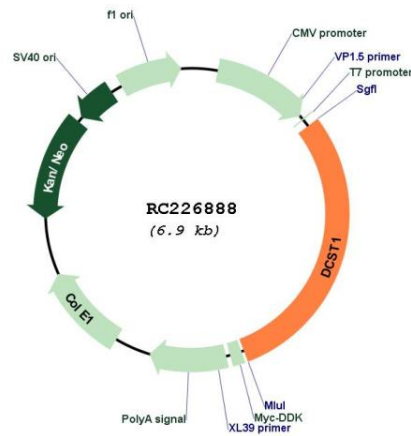
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.

|                          |                                                                                                                                                                                                                                                                                                        |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Note:</b>             | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                               |
| <b>RefSeq:</b>           | <a href="#">NM_001143687.2</a> , <a href="#">NP_001137159.1</a>                                                                                                                                                                                                                                        |
| <b>RefSeq ORF:</b>       | 2046 bp                                                                                                                                                                                                                                                                                                |
| <b>Locus ID:</b>         | 149095                                                                                                                                                                                                                                                                                                 |
| <b>UniProt ID:</b>       | <a href="#">Q5T197</a>                                                                                                                                                                                                                                                                                 |
| <b>Cytogenetics:</b>     | 1q21.3                                                                                                                                                                                                                                                                                                 |
| <b>Protein Families:</b> | Druggable Genome, Transmembrane                                                                                                                                                                                                                                                                        |
| <b>MW:</b>               | 77.5 kDa                                                                                                                                                                                                                                                                                               |
| <b>Gene Summary:</b>     | This gene encodes a protein with a domain similar to one found in dendritic cells (PMID:11169400) which play a key role in antigen processing and display for immune responses. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2011] |

### Product images:



Circular map for RC226888