

Product datasheet for **RG226888**

DCST1 (NM_001143687) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	DCST1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG226888 representing NM_001143687
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGACATTAACATCATCAGAATGGCACAAGAGGGCAAAGAAGAAAACAGCCTCATACCACGGTGCAGA
 GGCTCCTGACTGGGGGCTGCCAGTCTCCTGTAGCTGGTTCCTGTGGCGCCAGCCGGGCGAGTTTCTGT
 CACTGCTCTCCTGTGGGGGAGGGCTGGGGGCTCCTGGCCATAGGCTTGGGGGCATGGGCTGGGGG
 ACCTCCCCCACAATCCGCTGTGCCAGCCTCCTACTAGTACCCAAGATGCTGGGCAAGGAAGGCAGGCTCT
 TTGCTCTGGGATACGCTTGGCTGCCATCTATGTGGGGCCAGTAGCCAATCTGCGACACAATCTCAACAA
 CGTGATCGCATCGCTGGGCTGCACCTGGAGCTGCAGATCAACAACACCCGCGCAGCTTGGCGCATCTCC
 ACAGCCCCCTTACGGGCATGTTCAAGGACCTGCTGAGTAGCAAGAATTGCTGAGAGCAGAGACTCGGA
 ACATCTCCGCCACTTTTGGAGCCTGGATGCCAGGTGAATAGTGAGACGGGCTACACGCTGAGGATAC
 CATGGACTCAGGGGAGACAGCCAGGGCAGGGAGGCCGCCAAGCCCCAGCCTCCAGACTCCACCTGTGCG
 ACACAGAAGATGTATGAGCTGAAGACCAAGCTGCGTTGCTCCTATGTGGTGAACAGGCCATACTCAGCT
 GCCGTGCTGGTTTGACCGCAAGCATGAACAGTGCATGAAGCACATCTGGGTCCCACTCCTCACCACCT
 GCTCTGCCTGCCTATGAAGTTCAAGTTCTTCTGTGGCATTGCCAAGGTGATGGAGGTTTGGTGCCCAAT
 CGCATCCCAGTGAAGGCAACTTTGGGCAGACCTACGACTCCCTCAACCAGTCTATTCTGGCCTGGATG
 GGGAATTTTCAGCCAATTTGACTTCAAGGAAGAGAAGCAGGCTGGGGTCTGGGGCTCAACACAAGCTG
 GGAGCGCGTGAGCACCGAGGTGCGGGAACGCTGTACCGCCAGGAGGCCCGGCTGGAGTGGGCCCTGGGG
 CTGCTGCACGTGCTGCTCTCCTGCACTTTCTGCTGGTCTGCTGCGTCTTTCTCCTACATGGACAGCT
 ATAACCATGACATTCGTTTGAACAATCTACATCAGTACCTACTCTGCCAGATCGATGACCGCAGGAA
 GAAGCTGGGCAAAACGGACTCTGCTGCCACTCCGCAAGCTGAGGAGAAAACCGTCATCTTCCCTTGCAAG
 CCCACCATCCAGGCCTCAGAAATGAGCAATGTGGTGAGGGAGCTCCTGGAGACACTGCCATTCTGCTGC
 TGCTGGTGGTGTGTGTGGCTTGGACTGGGCTCTCTACTCCATCTTCGACACCATCCGCCACCACTCCTT
 CCTGCAGTACTCCTCCGACAGCTCATAAAGTGGAGGTGAAGGTGGGGGAGACTCCATGCTAGCCCGG
 CTCTTCGAAAAACCAATTGGGGCCCTGAACACCTCCTCAGAGACAGTGATGGAATCAACAACATGCCCT
 GCCTGCCCCAGCCTGTGGGCTGGATGCCAGGGCCTACTGGAGAGCTGCAGTACCGATTGGCCTGTTAGT
 GTGTCTCTGCCTGTTACAGGCTTTTGGCTACCGACTCCGGAGGGTCATCGCAGCCTTCTACTTCCCAAG
 CGAGAGAAGAAGCGGATCCTGTTCTCTACAATGACCTATTGAAGAAAAGAGCAGCCTTACCAAACTCA
 GGAGGGCCGCTATCCTGAGGCGGGAGCGACAGCAGAAGGCTCCGCGCCACCCGCTGGCGGATATCCTGCA
 CCGCGGCTGCCCGCTCCTGCGCGCTGGCTGTGCGCGCGCTGCGTGGTGTGCCAGGCACCCGAGACGCC
 GAGTCTACGTGTGCCGAGCCTGGACTGCGAGGCCGTGTACTGCTGGTGTGCTGGGACGACATGCGGC
 AGCGGTGCCCGTCTGCACGCCCGCGAAGAGCTCTCTTCTCCGCTTTAGTGACAGCAACGACGACAC
 TGCTACCGGGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAA

Protein Sequence: >RG226888 representing NM_001143687
 Red=Cloning site Green=Tags(s)

MDIKHHQNGTRGQRRKQPHTTVQRLLTWGLPVSCSWFLWRQPGFVPVALLLGAGAGLLAIGLGAMGWG
 TSPHIRCASLLLPKMLGKEGRLFVLGYALAAIYVGPVANLRHNLNNVIASLGCTVELQINNTRAARWIS
 TAPLRAMFKDLLSSKELLRAETRNIATFEDLDAQVNSETGYTPEDTMDSGETAQGREARQAPASRLHLS
 TQKMYELKTKLRCSYVVNQAILSCRWFDRKHEQCMKHIWVPLLTLLCLPMKFKFCGIAKVMVEVWCNR
 RIPVEGNFGQTYDSLNSIRGLDGEFSANIDFKEEKQAGVGLNTSWERVSTEVDRDYVYRQEARLEWALG
 LLHVLLSCTFLLVLHASFYSYMSYNHDIRFDNIYSTYFCQIDRRKKGKRTLLPLRKAEEKTVIFPK
 PTIQASEMSNVVRELLETLPILLLLVLCGLDWALYSIFDTRHHSFLQYSFRSSHKLEVKGDSMLAR
 LLRKTIGALNTSSETVMESNNMPCLPQPVGLDARAYWRAAVPIGLLVCLLQAFGYRLRRVIAAFYFPK
 REKKRILFLYNDLLKKRAAFTKLRRRAILRRERQKAPRHLADILHRGCPLLRRWLCRRCVVCQAPETP
 ESYVCRDLDCEAVYCWSCWDDMRQRCPVCTPREELSSAFSDSNDTAYAG

TRTRPLE - GFP Tag - V

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:

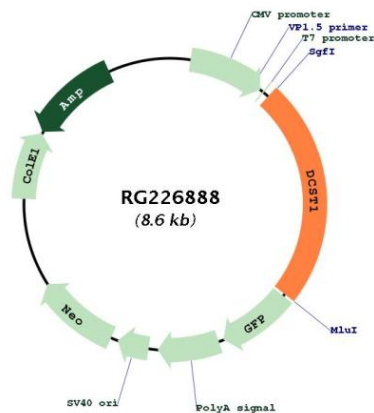
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001143687.2](#), [NP_001137159.1](#)

RefSeq Size:	2204 bp
RefSeq ORF:	2046 bp
Locus ID:	149095
UniProt ID:	Q5T197
Cytogenetics:	1q21.3
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	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 RG226888