

Product datasheet for **RG203427**

DCUNID1 (NM_020640) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	DCUNID1
Synonyms:	DCNLI; DCUNIL1; RP42; SCCRO; SCRO; Tes3
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG203427 representing NM_020640
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAACAAGTTGAAATCATCGCAGAAGGATAAAGTTCGTCAGTTTATGATCTTCACACAATCTAGTGAAA
AAACAGCAGTAAGTTGTCTTTCTCAAAATGACTGGAAGTTAGATGTTGCAACAGATAATTTTTTCCAAAA
TCCTGAACTTTATATACGAGAGAGTGTAAAGGATCATTGGACAGGAAGAAGTTAGAACAGCTGTACAAT
AGATACAAAGACCCCTCAAGATGAGAATAAAATTGGAATAGATGGCATAACAGCAGTTCTGTGATGACCTGG
CACTCGATCCAGCCAGCATTAGTGTGTTGATTATTGCATGGAAGTTCAGAGCAGCAACACAGTGCGAGTT
CTCCAAACAGGAGTTCATGGATGGCATGACAGAATTAGGATGTGACAGCATAGAAAACTAAAGGCCAG
ATACCCAAGATGGAACAAGAATTGAAAGAACCAGGACGATTTAAGGATTTTACCAGTTTACTTTTAATT
TTGCAAGAATCCAGGACAAAAAGGATTAGATCTAGAAATGGCCATTGCCTACTGGAACCTTAGTGCTTAA
TGGAAGATTTAAATTCCTTAGACTTATGGAATAAATTTTGTGGAACATCATAACGATCAATACCAAAA
GACACTTGGAATCTTCTTTTAGACTTCAGTACGATGATTGCAGATGACATGTCTAATTATGATGAAGAAG
GAGCATGGCCTGTTCTTATTGATGACTTTGTGGAATTTGCACGCCCTCAAATGCTGGGACAAAAAGTAC
AACAGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



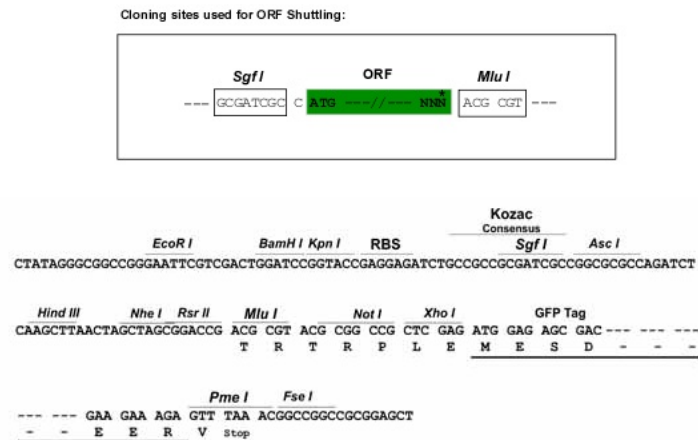
Protein Sequence: >RG203427 representing NM_020640
 Red=Cloning site Green=Tags(s)

MNKLKSSQKDKVRQFMIFTQSSEKTAVSCLSQNDWKLDVATDNFFQNPelyIRESVKGSLDRKKLEQLYN
 RYKDPQDENKIGIDGIQQFCDDLALDPASISVLIIAWKFRAATQCEFSKQEFMDGMTELGCDSIEKLKAQ
 IPKMEQELKEPGRFKDFYQFTFNFAKNPGQKGLDLEMAIAYWNLVLNGRFKFLDLWNKFLLEHHKRSIPK
 DTWNLLLDFSTMIADMSNYDEEGAWPVLIDDFVEFARPQIAGTKSTTV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020640

ORF Size: 777 bp

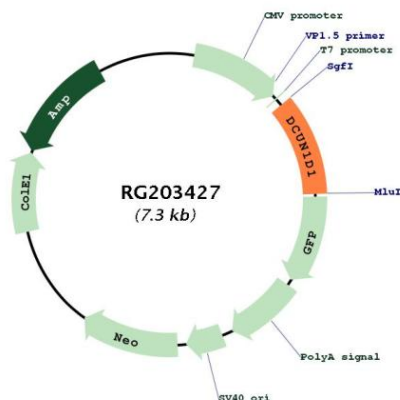
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<u>NM_020640.2</u> , <u>NP_065691.2</u>
RefSeq Size:	3192 bp
RefSeq ORF:	780 bp
Locus ID:	54165
UniProt ID:	<u>Q96GG9</u>
Cytogenetics:	3q26.33
Domains:	DUF298
Protein Families:	Druggable Genome
Gene Summary:	Part of an E3 ubiquitin ligase complex for neddylation. Promotes neddylation of cullin components of E3 cullin-RING ubiquitin ligase complexes. Acts by binding to cullin-RBX1 complexes in the cytoplasm and promoting their nuclear translocation, enhancing recruitment of E2-NEDD8 (UBE2M-NEDD8) thioester to the complex, and optimizing the orientation of proteins in the complex to allow efficient transfer of NEDD8 from the E2 to the cullin substrates. Involved in the release of inhibitory effects of CAND1 on cullin-RING ligase E3 complex assembly and activity (PubMed:25349211, PubMed:28581483). Acts also as an oncogene facilitating malignant transformation and carcinogenic progression (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG203427