

## Product datasheet for **MR228742**

### **Dcun1d1 (NM\_001205362) Mouse Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dcun1d1 (NM_001205362) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dcun1d1
Synonyms:	pTes3; Rp42; SCCRO; Tes3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR228742 representing NM_001205362 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATCTTCACACAATCTAGTGAGAAAAGTGCAGTAAGTTGTCTTTCTCAAATGACTGGAAGTTAGATG  
TTGCAACAGATAATTTTTTCAAATCCAGAACTTTATATACGGGAGAGTGAAAAGGATCGTTGGACAG  
GAAGAAGTTAGAGCAACTGTACACTAGATACAAAGACCCTCAGGATGAAAATAAAATTGGAATAGATGGT  
ATACAGCAGTTCTGTGATGATCTGGCCCTCGATCCAGCCAGCATCAGTGTGTTGATCATTGCATGGAAGT  
TCAGGGCGGCCACACAGTGCAGTTCTCCAACAGGAGTTCATGGATGGCATGACAGAGTTAGGATGTGA  
CAGCATAGAAAACTAAAGGCCCAAATACCCAAGATGGAACAAGAATTGAAAGAACCAGGACGATTTAAG  
GATTTTTACCAGTTTACTTTTAAATTTTGCAAAGATCCAGGACAAAAAGGATTAGATCTAGAAATGGCCA  
TTGCTTACTGGAAGTTAGTGCTTAATGGAAGATTTAAATCTTAGACTTATGGAATAAATTTTGTGGGA  
GCATCATAAACGATCAATACCAAAGACACGTGGAATCTTCTGTTAGACTTCAGTTCAATGATTGCAGAT  
GACATGTCCAATTATGATGAAGAAGGAGCATGGCCTGTCCTTATTGATGACTTTGTGGAATTTGCACGCC  
CTCAAATTGCTGGGACAAAAAGTACAACAGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR228742 representing NM\_001205362  
Red=Cloning site Green=Tags(s)

MIFTQSSEKTAVSCLSQNDWKLDVATDNFFQNPELYIRESVKGSLDRKKLEQLYTRYKDPQDENKIGIDG  
 IQQFCDLALDPASISVLIIAWKFRAATQCEFSKQEFMDGMTLGCDSIEKLKAQIPKMEQELKEPGRFK  
 DFYQFTFNFAKNPGQKGLDLEMAIAYWNLVNGRFKFLDLWNKFLLEHHKRSIPKDTWNLILLDFSSMIAD  
 DMSNYDEEGAWPVLIDDFVEFARPQIAGTKSTTV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_001205362

**ORF Size:** 732 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\\_001205362.1](#), [NP\\_001192291.1](#)

**RefSeq Size:** 4434 bp

**RefSeq ORF:** 735 bp

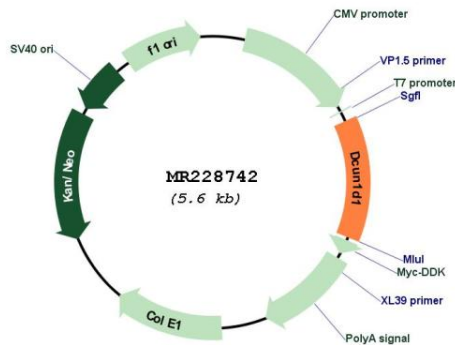
**Locus ID:** 114893

**Cytogenetics:** 3 B

**MW:** 28.3 kDa

**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 (By similarity). Acts also as an oncogene facilitating malignant transformation and carcinogenic in vivo (PubMed:20563250).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR228742