

## Product datasheet for **MG203355**

### Dcun1d1 (BC020161) Mouse Tagged ORF Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | Dcun1d1 (BC020161) Mouse Tagged ORF Clone                                  |
| Tag:                      | TurboGFP   |
| Symbol:                   | Dcun1d1  |
| Synonyms:                 | Rp42, pTes3  |
| Mammalian Cell Selection: | Neomycin   |
| Vector:                   | pCMV6-AC-GFP (PS100010)  |
| E. coli Selection:        | Ampicillin (100 ug/mL)   |
| ORF Nucleotide Sequence:  | >MG203355 representing BC020161<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAACAAGTTGAAATCATCGCAGAAGGATAAAGTTCGTCAGTTTATGATCTTCACACAATCTAGTGAGA  
AAACTGCAGTAAGTTGTCTTTCTCAAAATGACTGGAAGTTAGATGTTGCAACAGATAATTTTTTTCAAAA  
TCCAGAACTTTATACGGGAGAGTGTAAAAGGATCGTTGGACAGGAAGAAGTTAGAGCAACTGTACT  
AGATACAAAGACCCTCAGGATGAAAATAAAATTGGAATAGATGGTATACAGCAGTTCTGTGATGATCTGG  
CCCTCGATCCAGCCAGCATCAGTGTGTTGATCATTGCATGGAAGTTCAGGGCGGCCACACAGTGCAGTT  
CTCCAAACAGGAGTTCATGGATGGCATGACAGAGTTAGGATGTGACAGCATAGAAAACTAAAGGCCAA  
ATACCCAAGATGGAACAAGAATTGAAAGAACCAGGACGATTTAAGGATTTTTACCAGTTTACTTTTAATT  
TTGCAAAGAATCCAGGACAAAAAGGATTAGATCTAGAAATGGCCATTGCTTACTGGAACCTTAGTGCTTAA  
TGGAAGATTTAAATCTTAGACTTATGGAATAAATTTTTGTTGGAGCATCATAAACGATCAATACAAAA  
GACACGTGGAATCTTCTGTTAGACTTCAGTTCAATGATTGCAGATGACATGTCCAATTATGATGAAGAAG  
GAGCATGGCCTGCCTTATTGATGACTTTGTGGAATTTGCACGCCCTCAAATTGCTGGGACAAAAAGTAC  
AACAGTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG203355 representing BC020161  
 Red=Cloning site Green=Tags(s)

MNKLKSSQKDKVRQFMIFTQSSEKTAVSCLSQNDWKLDVATDNFFQNPELYIRESVKGSLDRKKLEQLYT  
 RYKDPQDENKIGIDGIQQFCDDLALDPASISVLIIAWKFRAATQCEFSKQEFMDGMTELGCDSIEKLKAQ  
 IPKMEQELKEPGRFKDFYQFTFNFAKNPGQKGLDLEMAIAYWNLVLNGRFKFLDLWNKFLLEHHKRSIPK  
 DTWNLLLDFFSSMIADDMSNYDEEGAWPVLIDDFVEFARQIAGTKSTTV

TRTRPLE - GFP Tag - V

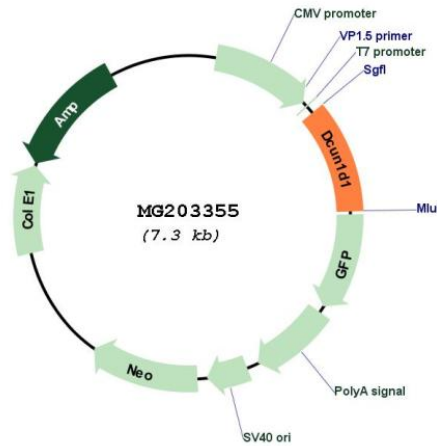
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** BC020161

**ORF Size:** 777 bp

|                               |  |
|-------------------------------|--|
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>   |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.   |
| <b>Components:</b>            | 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).   |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>  |
| <b>RefSeq:</b>                | <a href="#">BC020161.1</a>   |
| <b>RefSeq Size:</b>           | 1505 bp  |
| <b>RefSeq ORF:</b>            | 779 bp   |
| <b>Locus ID:</b>              | 114893   |
| <b>Cytogenetics:</b>          | 3 B  |
| <b>Gene Summary:</b>          | 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] |