

## Product datasheet for **RG200175**

### **DUS2L (DUS2) (NM\_017803) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DUS2L (DUS2) (NM_017803) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DUS2L
Synonyms:	DUS2L; SMM1; URLC8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG200175 representing NM\_017803  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATTTTGAATAGCCTCTCTGTGTACCATAATAAGCTAATCCTGGCCCAATGGTTCGGGTAGGGA  
 CTCTTCCAATGAGGCTGCTGGCCCTGGATTATGGAGCGGACATTGTTACTGTGAGGAGCTGATCGACCT  
 CAAGATGATTCAGTGCAAGAGAGTTGTTAATGAGGTGCTCAGCACAGTGGACTTTGTCGCCCTGATGAT  
 CGAGTTGTCTCCGCACCTGTGAAAGAGAGCAGAACAGGGTGGTCTCCAGATGGGGACTTCAGACGCAG  
 AGCGAGCCCTTGCTGTGGCCAGGCTTGTAGAAAATGATGTGGCTGGTATTGATGTCAACATGGGCTGTCC  
 AAAACAATATTCCACCAAGGGAGGAATGGGAGCTGCCCTGCTGTCAGACCCTGACAAGATTGAGAAGATC  
 CTCAGCACTCTTGTTAAAGGGACACGCAGACCTGTGACCTGCAAGATTCGCATCTGCCATCGCTAGAAG  
 ATACCTGAGCCTTGTGAAGCGGATAGAGAGGACTGGCATTGCTGCCATCGCAGTTCATGGGAGGAAGCG  
 GGAGGAGCGACCTCAGCATCCTGTCAGCTGTGAAGTCATCAAAGCCATTGCTGATACCCTCTCCATTCT  
 GTCATAGCCAACGGAGGATCTCATGACCACATCCAACAGTATTCCGACATAGAGGACTTTGACAAGCCA  
 CGGCAGCCTCTCCGTGATGGTGGCCCGAGCAGCCATGTGGAACCCATCTATCTTCTCAAGGAGGGTCT  
 GCGGCCCTGGAGGAGGTGATGCAGAAATACATCAGATACGCGGTGACGATGACAACCACTACACCAAC  
 ACCAAGTACTGCTTGTGCCAGATGCTACGAGAACAGCTGGAGTCGCCCGAGGAAAGTTGCTCCATGCTG  
 CCCAGTCTTCCCGGAAATTTGTGAGGCCCTTGGCCTTGGTGCCTTCTATGAGGAGACCACAGGAGCT  
 GGATGCCAGCAGGCCAGGCTCTCAGCCAAGACTTCAGAGCAGACAGGGGAGCCAGCTGAAGATACCTCT  
 GGTGTCATTAAGATGGCTGTCAAGTTTGACCGGAGAGCATAACCCAGCCAGATCACCCCTAAGATGTGCC  
 TACTAGAGTGGTCCGGAGGGAGAAGTTGGCACAGCCTGTGTATGAAACGGTTCAACGCCCTTAGATCG  
 CCTGTTCTCCTCTATTGTCACCGTTGCTGAACAAAAGTATCAGTCTACCTTGTGGGACAAGTCCAAGAAA  
 CTGGCGGAGCAGGCTGCAGCCATCGTCTGTCTGCGGAGCCAGGGCCTCCCTGAGGGTCCGGTGGGTGAGG  
 AGAGCCCTTCTTGCACAAGCGAAAAGAGGGAGGCTCCTGACCAAGACCCTGGGGGCCAGAGCTCAGGA  
 GCTAGCACAACCTGGGGATCTGTGCAAGAAGCCCTTGTGGCCTTGGGAAGTGGTGAAGAAAGCCCTCTG  
 GAAGGCTGG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG200175 representing NM\_017803  
 Red=Cloning site Green=Tags(s)

MILNSLSLCYHNKLI LAPMVRVGLPMRLLALDYGADIVYCEELIDLKMIQCKRVVNEVLSTVDFVAPDD  
 RVVVFTCEREQNRVVFQMGTSDAERALAVARLVENDVAGIDVNMGCPKQYSTKGGMGAALLSDPKIEKI  
 LSTLVKGTTRRPVTCKIRILPSLEDLTLVKRIERTGIAAIAVHGRKREERPQHPVSCEVIKAIADTL  
 SIPVIANGGSHDHIQQYSDIEDFRQATAASSVMVARAAMWNPISIFLKEGLRPLEEVMQKYIRYAVQYDNHYTN  
 TKYCLCQMLREQLESPQGRLLHAAQSSREICEAFGLGAFYEETTQELDAQARLSAKTSEQTGEPEDTS  
 GVIKMAVKFDRRAYPAQITPKMCLLEWCRREKLAQPVYETVQRPLDRLFSSIVTVAEQKYQSTLWDKSKK  
 LAEQAAAIVCLRSQGLPEGRLGEEPSLHKRREAPDQDQGGPRAQELAQPGDLCKKPFVALGSGEESPL  
 EGW

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_017803

**ORF Size:** 1479 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\\_017803.5](#)

**RefSeq Size:** 1999 bp

**RefSeq ORF:** 1482 bp

**Locus ID:** 54920

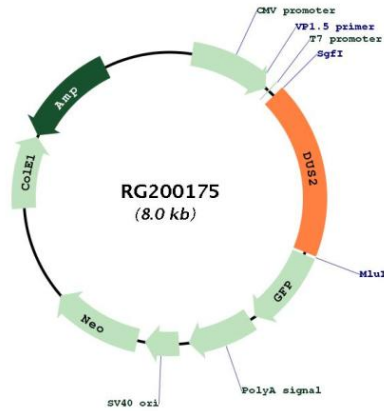
**UniProt ID:** [Q9NX74](#)

**Cytogenetics:** 16q22.1

**Domains:** DSRM, Dus

**Gene Summary:** This gene encodes a cytoplasmic protein that catalyzes the conversion of uridine residues to dihydrouridine in the D-loop of tRNA. The resulting modified bases confer enhanced regional flexibility to tRNA. The encoded protein may increase the rate of translation by inhibiting an interferon-induced protein kinase. This gene has been implicated in pulmonary carcinogenesis. Alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Nov 2012]

**Product images:**



Circular map for RG200175