

## Product datasheet for **RC232854**

### **DUS2L (DUS2) (NM\_001271762) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DUS2L (DUS2) (NM_001271762) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DUS2L
Synonyms:	DUS2L; SMM1; URLC8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC232854 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGATTTTGAATAGCCTCTCTGTGTACCATAATAAGCTAATCCTGGCCCAATGGTTCGGGTAGGGA  
 CTCTTCCAATGAGGCTGCTGGCCCTGGATTATGGAGCGGACATTGTTTACTGTGAGGAGCTGATCGACCT  
 CAAGATGATTCAGTGCAAGAGAGTTGTTAATGAGGTGCTCAGCACAGTGGACTTTGTCGCCCTGATGAT  
 CGAGTTGTCTCCGCACCTGTGAAAGAGAGCAGAACAGGGTGGTCTCCAGATGGGGACTTCAGACGCAG  
 AGCGAGCCCTTGCTGTGGCCAGGCTTGTAGAAAATGATGTGGCTGGTATTGATGTCAACATGGGCTGTCC  
 AAAACAATATTCCACCAAGGGAGGAATGGGAGCTGCCCTGCTGTCAGACCCTGACAAGATTGAGAAGATC  
 CTCAGCACTCTTGTTAAAGGGACACGCAGACCTGTGACCTGCAAGATTGCGATCTGCCATCGTAGAAG  
 ATACCTGAGCCTTGTGAAGCGGATAGAGAGGACTGGCATTGCTGCCATCGCAGTTCATGGGAGGAAGCG  
 GGAGGAGCGACCTCAGCATCCTGTCAGCTGTGAAGTCATCAAAGCCATTGCTGATACCCTCTCCATTCT  
 GTCATAGCCAACGGAGGATCTCATGACCACATCCAACAGTATTCCGACATAGAGGACTTTGACAAGCCA  
 CGGCAGCCTCTCCGTGATGGTGGCCCGAGCAGCCATGTGGAACCCATCTATCTTCTCAAGGAGGGTCT  
 GCGGCCCTGGAGGAGTTCATGCAGAAATACATCAGATACGCGGTGACAGTATGACAACCACTACACCAAC  
 ACCAAGTACTGCTTGTGCCAGATGCTACGAGAACAGCTGGAGTCGCCCCAGGGAAGGTTGCTCCATGCTG  
 CCCAGTCTTCCCGGAAATTTGTGAGGCCCTTGGCCTTGGTGCCTTCTATGAGGAGACCACAGGAGCT  
 GGATGCCAGCAGGCCAGGCTCTCAGCCAAGACTTCAGAGCAGACAGGGGAGCCAGCTGAAGATACCTCT  
 GGTGATTAAGATGGCTGTCAAGTTTGACCGGAGAGCATAACCCAGCCAGATCACCCCTAAGATGTGCC  
 TACTAGAGTGGTCCGGAGGGAGAAGTTGGCACAGCCTGTGTATGAAACGGTTCAACGCCCTTAGATCG  
 CCTGTTCTCTCTATTGTCACCGTTGCTGAACAAAAGTATCAGTCTACCTTGTGGGACAAGTCCAAGAAA  
 CTGGCGGAGCAGGCTGCAGCCATCGTCTGTCTGCGGAGCCAGGGCCTCCCTGAGGGTTCGGTGGGTGAGG  
 AGAGCCCTTCTTGCACAAGCGAAAGAGGGAGGCTCCTGACCAAGACCCTGGGGGCCAGAGCTCAGGA  
 GCTAGCACAACCTGGGGATCTGTGCAAGAAGCCCTTGTGGCCTTGGGAAGTGGTGAAGAAAGCCCTG  
 GAAGGCTGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC232854 protein sequence  
 Red=Cloning site Green=Tags(s)

MILNLSLCYHNKLIAPMVRVGTLPMLLLALDYGADIVYCEELIDLKMIQCKRVVNEVLSTVDFVAPDD  
 RVVVRTCEREQNRVVFQMGTSDAERALAVARLVENDVAGIDVNMGCQPKQYSTKGGMGAALLSDPKIEKI  
 LSTLVKGTTRRPVTCKIRILPSLEDTLSLVKRIERTGIAAIAVHGRKREERPQHPVSCSEVIKAIADTSLIP  
 VIANGGSHDHIQQYSDIEDFRQATAASSVMVARAAMWNPISIFLKEGLRPLEEVMQKYIRYAVQYDNHYTN  
 TKYCLCQMLREQLQESPGRLHAAQSSREICEAFGLGAFYEETTQELDAQQARLSAKTSEQTGPEAEDTS  
 GVIKMAVKFDRRAYPAQITPKMCLLEWCRREKLAQPVYETVQRPLDRLFSSIVTVAEQKYQSTLWDKSKK  
 LAEQAAAIVCLRSQGLPEGRLGEESPSLHKRREAPDQDPGGPRAQELAQPGDLCKKPFVALGSGEESPL  
 EGW

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6153\\_b08.zip](https://cdn.origene.com/chromatograms/mk6153_b08.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001271762

**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\\_001271762.2](#)

**RefSeq Size:** 2262 bp

**RefSeq ORF:** 1482 bp

**Locus ID:** 54920

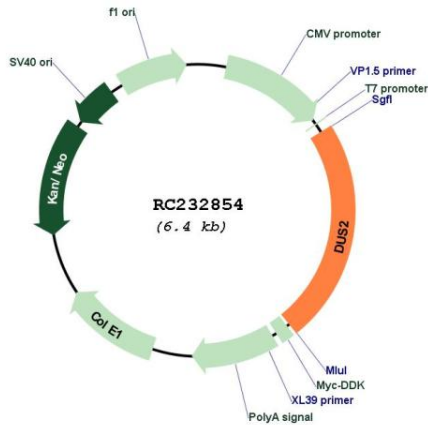
**UniProt ID:** [Q9NX74](#)

**Cytogenetics:** 16q22.1

MW: 55.1 kDa

**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 RC232854