

Product datasheet for **RG232782**

DUS2L (DUS2) (NM_001271763) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DUS2L (DUS2) (NM_001271763) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DUS2
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:

>RG232782 representing NM_001271763
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATTTTGAATAGCCTCTCTGTGTACCATAATAAGCTAATCCTGGCCCAATGGTTCGGGTAGGGA
 CTCTTCCAATGAGGCTGCTGGCCCTGGATTATGGAGCGGACATTGTTACTGTGAGGAGCTGATCGACCT
 CAAGATGATTCAGTGCAAGAGAGTTGTTAATGAGGTGCTCAGCACAGTGGACTTTGTCGCCCTGATGAT
 CGAGTTGTCTCCGCACCTGTGAAAGAGAGCAGAACAGGGTGGTCTCCAGATGGGAGGAATGGGAGCTG
 CCCTGCTGTCAGACCCTGACAAGATTGAGAAGATCCTCAGCACTTTGTTAAAGGGACACGCAGACCTGT
 GACCTGCAAGATTCGCATCCTGCCATCGCTAGAAGATACCCTGAGCCTTGTGAAGCGGATAGAGAGGACT
 GGCATTGCTGCCATCGCAGTTCATGGGAGGAAGCGGGAGGAGCGACCTCAGCATCCTGTCAGCTGTGAAG
 TCATCAAAGCCATTGCTGATACCCTCTCCATTCTGTGCATAGCCAACGGAGGATCTCATGACCACATCCA
 ACAGTATTCGGACATAGAGGACTTTCGACAAGCCACGGCAGCCTTCCGTGATGGTGGCCCGAGCAGCC
 ATGTGGAACCCATCTATCTTCTCAAGGAGGGTCTGCGGCCCTGGAGGAGGTATGCAGAAATACATCA
 GATACGCGGTGCAGTATGACAACCACTACACCAACACCAAGTACTGCTTGTGCCAGATGCTACGAGAACA
 GCTGGAGTCGCCCCAGGGAAGTTGCTCCATGCTGCCAGTCTTCCCGGAAATTTGTGAGGCTTTGGC
 CTTGGTGCCTTCTATGAGGAGACCACACAGGAGCTGGATGCCAGCAGGCCAGGCTCTCAGCCAAGACTT
 CAGAGCAGACAGGGGAGCCAGCTGAAGATACCTCTGGTGTCAATTAAGATGGCTGTCAAGTTTGACCGGAG
 AGCATACCCAGCCAGATCACCCCTAAGATGTGCCTACTAGAGTGGTCCCGGAGGAGAAGTTGGCAGAG
 CCTGTGTATGAAACGGTCAACGCCCTTAGATCGCCTGTTCTCCTCTATTGTACCAGTTGCTGAACAAA
 AGTATCAGTCTACCTTGTGGGACAAGTCCAAGAACTGGCGGAGCAGGCTGCAGCCATCGTCTGTGCG
 GAGCCAGGGCCTCCCTGAGGGTTCGGTGGGTGAGGAGAGCCCTTCTTGCACAAGCGAAAGAGGGAGGCT
 CCTGACCAAGACCCTGGGGGCCAGAGCTCAGGAGCTAGCACAACTGGGGATCTGTGCAAGAAGCCCT
 TTGTGGCCTTGGGAAGTGGTGAAGAAAGCCCTGGAAGGCTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG232782 representing NM_001271763
 Red=Cloning site Green=Tags(s)

MILNSLSLCYHNKLI LAPMVRVGTLP MRLALDYGADIVYCEEL IDLKMIQCKRVVNEVLS TVDFVAPDD
 RVVFRTCEREQNRVVFQMGGMGAALLSDPDKIEKILSTLVKGTTRPVTKIRILPSLEDTSLVKRIERT
 GIAAIAVHGRKREERQHPVSCEVIKAIADTLSIPVIANGGSHDHIQQYSDIEDFRQATAASSVMVARAA
 MWNPSIFLKEGLRPLEEVMQKYIRYAVQYDNHYTNTKYCLCQMLREQLESPOGRLLHAAQSSREICEAFG
 LGAFYEETTQELDAQARLSAKTSEQTGEPAEDTSGVIKMAVKFDRRAYPAQITPKMCLLEWCRREKLAQ
 PVYETVQRPLDRLFSSIVTVAEQKYQSTLWDKSKLAEQAAAIVCLRSQGLPEGRLGEESPSLHKRREA
 PDQDPGGPRAQELAQPGLDCKKPFVALGSGEESPLEGW

TRTRPLE - GFP Tag - V

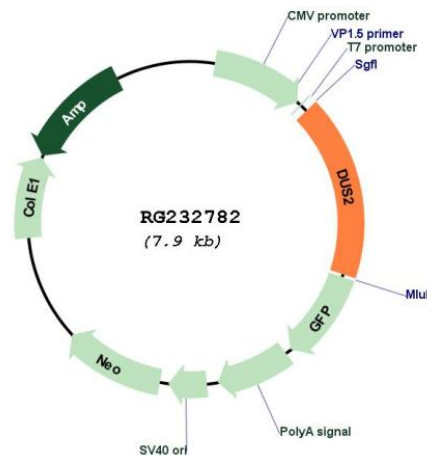
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001271763

ORF Size: 1374 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:	<ol style="list-style-type: none">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:	<u>NM_001271763.2</u>
RefSeq Size:	2237 bp
RefSeq ORF:	1377 bp
Locus ID:	54920
UniProt ID:	<u>Q9NX74</u>
Cytogenetics:	16q22.1
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]