

## Product datasheet for **MC227398**

### Dus2 (NM\_001301176) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Dus2 (NM\_001301176) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Dus2  
**Synonyms:** 2310016K04Rik; Dus2l  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC227398 representing NM\_001301176  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGGCTGTCCAAAAGAGTATCCACTAAGGGAGGAATGGGAGCCGCTCTGCTGTCAGACCTGACAAGA  
TCGAGAAGATCCTCAGCACTCTTGTTAAAGGGACACAGACCTGTGACCTGTAAATCCGAATCCTGCC  
CTCGCTGGAAGATACCCTGAACCTGGTGAAGCGGATAGAGAGGACTGGCATTTCAGCCATTGCAGTTCAT  
GGGAGGAATCGTGACGAGCGACCTCAGCACCCGGTCAGCTGTGAAGTTATAAGAGCCATTGCTGAAACCC  
TCTCCATTCTGTCATAGCCAACGGAGGATCTCATGACCATATCCAGCAACATGTGGACATAGAAGACTT  
TCGACAAGCCACGGCTGCCTCCTCTGTGATGGTGGCTCGAGCAGCCATGTGGAACCCCTCCATCTTCCTC  
AAGGATGGCCTTCGTCCTCGGAGGAAGTCATGCAGAAGTACATCAGATATGCGGTGCAGTATGATAACC  
ACTACACCAACACCAAGTACTGCTTGTGCCAAATGCTGCGGGAACAGTTGGAGTCGCCCCAGGGAAGACT  
GCTTCATGCTGCCAGTCTTCCCAGGAAATTTGTGAGGCCTTTGGCCTTGGTGCCTTCTATGAGGAGACC  
ATTCGGGAGCTCGATGCTCGGCGAGCTGACCTCCTGGCCAAGACTCCAGAGGCTGTTGAGGAGCCAGCTG  
AAGATACTTCTGGCATCATTAAAATGGCTATCAGGTTTGACCCGGAGAGCATATCCACCCAGACTCTCC  
CAAGATGTGCCTGCTGGAATGGTGTGCGAGGGAGAAGCTGCCACAACCTGTGTATGAAACAGTTCAGCGA  
ACTATAGATCGCATGTTTTGCTCTGTTGTCACTGTTGCGGAACAAAAGTACCAGTCCACCTTGTGGGACA  
AGTCCAAGAAACTGGCGGAGCAGACTGCAGCAATTGTGTGCTTATAGGAGCCAGGGCCTCCCTGAGGGTGC  
GCTGGGTGAGGAGAGTCCCTCCTTGAACAAGCGCAAGCGAGAGGCCCTGACCAAGACCTGGGGGCCCA  
AGAGTTCAGGAGCCAGCACTACCTGGGGAGATATGCAAGAAGCCATTTGTAACTTGGACAGTAGTGAGG  
AGAATCTTCTGGAAGGCTGCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI



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<b>ACCN:</b>	NM_001301176
<b>Insert Size:</b>	1143 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>	<u><a href="#">NM_001301176.1</a></u> , <u><a href="#">NP_001288105.1</a></u>
<b>RefSeq Size:</b>	1866 bp
<b>RefSeq ORF:</b>	1143 bp
<b>Locus ID:</b>	66369
<b>UniProt ID:</b>	<u><a href="#">Q9D7B1</a></u>
<b>Cytogenetics:</b>	8 D3
<b>Gene Summary:</b>	<p>Dihydrouridine synthase. Catalyzes the NADPH-dependent synthesis of dihydrouridine, a modified base found in the D-loop of most tRNAs. Negatively regulates the activation of EIF2AK2/PKR.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) lacks an alternate exon and uses a downstream translation start codon compared to isoform 1. The resulting isoform (2) is shorter at the N-terminus compared to isoform 1.</p>