

## Product datasheet for MC225169

### Dysf (NM\_001077694) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Dysf (NM\_001077694) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Dysf  
**Synonyms:** 2310004N10Rik; AI604795; D6Pas3  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC225169 representing NM\_001077694  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGCGAGTCTTCATCCTTTTTGCGGAGAATGTCCACACCCCGGACTCCGACATCAGCGATGCCTACT  
 GCTCCGCGGTGTTTGCAGGGTAAAGAAGAGAACCAAAGTCATCAAGAACAGTGTGAACCCCGTGTGGAA  
 TGAGGGCTTTGAGTGGGACCTCAAAGTATTCTCTAGATCAGAGCTCAGAACTTCTCGTGGTGGTCAAG  
 GACCATGAGACGATGGGAAGAAACAGGTTCTGGGGGAAGCCAAGATCCCACTCCAGGAGTCTTGCCA  
 CCCCCAGCCTCTCTGCCAGCTTCAACGCACCTCTGCTAGACGCCAAGCAGCAACCCACGGGGCCTCTCT  
 GGTCTGCAGGTGCTCTACACGCCACCCAGGAGCTGTGCCCTGTTCCACCACCTGCTTCTCTAGCA  
 CCCTCCCCGACTGCCTGACATGGATCTGGTGCCTGGTGGGGACAGAGCCGGGCTGAGACTTGGTCCC  
 TGCTCAGTGACAGCACCATGGACACGAGATACTCTGGGAAGAAGTGGCCGGTCCCCACGGACACAGGAGG  
 GGAGGAAGACACCGAGGACCAGGGCCTGACTGGAGATGAAGCTGAGCCGTTCTGGACCAGAGTGTCTGT  
 GTGGGCCAGGGGACCGACACACCCAGGAAGCCACCTTCCACCCTCTCCCACTATCCAGGGGCAA  
 AAAGAAAAGAAGCTCTGCCCCACTAGAAAGCTGCTGTACAGACAAGCCACAGGACTTCCAGATCAGAGT  
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 AGATGCCCTCCTTGGCGAGTCCGGATGGATGTGGGCACCGTGTACAGAGAGCCCGACACGCTTATCTC  
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GTATGTCGAAAATCTCTGCTACTGGAGGAGAAATAGAAGTGGACGACAACCTGGGCTTCCTCCCCACTTT  
 TGGGCCCTGCTATGTGAACCTCTATGGCAGTCCCCGAGAGTTCACGGGCTTCCCAGATCCTTATGCAGAG  
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 GAGGCGCAAATATCCCTCTTTGCTGCCTTCTACTCAGCCACAATGCTGCAGGATGTGGATGACGCCATC  
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 CCTCAAAGGGAGGCCAACATCTACATGGTTCGCCAGAACATTAAGCCAGCTCTCCAACGACTGCCATTG  
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 GGTGGAGTGTGGTGGGCAGACAGTGCAGTCTGTGTATCAGAAACCTTCGGAAGAACCCTCACTTGGAT  
 GTCTGTACTCTTCTCATGGAAGTATGTTACCCAGAGAGGACCTCTACTGTCCACCTATTGTGGTCAAGG  
 TCATTGATAATCGCCAGTTTGGCCGCGCCAGTTGTGGGTGAGTGTACCATTCCGCTCCCTGGAGAACTT  
 CCTGTGCGACCCATACTCAGCAGAGAGTCCATCCCCACAGGGTGGCCAGATGATGTGAGCTTACTCAGC  
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 TTAAGGGTCTCTTCAAAATTTATCCCTCCAGAAGATCCAGCCATCCCATGCCCCGAGACAATTCCA  
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 AGGATAACTACATCCCTTGCACCCTGGAGCCTGTATTCGGAAGATGTTTGAACCTCACCTGCACTTACC  
 TCTGGAGAAGGACCTGAAGATCACACTCTACGATTATGACCTGCTCTCCAAGGATGAGAAGATTGGGGAG  
 ACGGTCATAGACCTGGAGAACAGGCTGTGTCCAAGTTTGGGGCTCGCTGTGGGCTCCACAGACCTACT  
 GTGTCTCTGGACCAAATCAGTGGAGAGATCAGCTCCGCCCTCCAGCTCCTCCACCTCTTCTGCCAGCA

GCACAGGATCAAGGCCCCCGTGTACCGGACAGACCGAGTGACGTTTCAGGATAAGGACTACACCATTGAG  
 GAGATAGAGGCTGGCAGACTCCCAAACCCACACCTGGGCCAGTGGAGGAACGCTTAGCCCTGCATGTCC  
 TTCAGCAACAAGGCTTGGTTCTCTGAGCATGTGGAGTCACGGCCTCTTTATAGTCTCTGCAGCCAGATAT  
 CGAGCAGGGGAAGCTACAGATGTGGATTGACATATTTCCAAGGTGCTGGGCCGGCCTGGACCTCCCTTC  
 AACATCACCCACGGAAGCTAGAAGGTTTTTCTGCGTTGTATTATTTGGAACACAAAAGATGTGATCT  
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 AGAACACAAGCAGAAGACAGATGTGCACTACCGCTCCCTGGGTGGGAGGGCAATTTCAACTGGAGGTTT  
 GTGTTTCCCTTCGACTATCTGCCTGCTGAGCAAGTCTGTGCTGTTGCCAAGAAGGATGCCTTCTGGAGAC  
 TCGACAAGACAGAGAGCAAGATCCCAGCACGTGTGGTCTTCCAGATCTGGGACAATGACAAAATTCTCTTT  
 TGATGACTTTCTGGGCTCTCTGCAGCTGGATCTCAACCGAATGCCAAGCCAGCCAAGACGGCTGAGAAG  
 TGCTCCTTGGACCAGCTGGATGACACCTTCCACCCAGAATGGTTTGTGTCCCTTTTTGAGCAGAAGACAG  
 TGAAAGGATGGTGGCCTTGTGTGACAGAGGAGGGCGAGAAGAAGATGTTGGCGGGCAAGCTGAAATGAC  
 CTTGGAGATTGTTGCAGAAAGTGAACATGAAGAGCGGCCTGCTGGCCAAGGTCGGATGAACCCAACATG  
 AATCCGAAGCTAGAGGATCCAAGGCGCCCCGATACTTCTTCTGTGGTTACCTCCCCGTACAAGACCA  
 TGAAGTTCATCTTGTGGCGACGCTTCCGGTGTGCCATCATCTTTCATCATCTTTCATCTCTCTGCT  
 CTTCTGGGTGTCTTTGTCTACGCCTCCCGAAGTACGCTGCCATGAAGCTGGTGAAGCCCTTTCGATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_001077694
- Insert Size:** 6300 bp
- OTI Disclaimer:** 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).
- 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\\_001077694.2](#), [NP\\_001071162.1](#)
- RefSeq Size:** 6845 bp
- RefSeq ORF:** 6300 bp
- Locus ID:** 26903
- UniProt ID:** [Q9ESD7](#)
- Cytogenetics:** 6 36.14 cM

**Gene Summary:**

Key calcium ion sensor involved in the Ca(2+)-triggered synaptic vesicle-plasma membrane fusion. Plays a role in the sarcolemma repair mechanism of both skeletal muscle and cardiomyocytes that permits rapid resealing of membranes disrupted by mechanical stress. [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) contains an alternate 5' terminal exon and differs in the 5' UTR and the 5' coding region, compared to variant 1. It encodes isoform 2, which has a shorter and distinct N-terminus, compared to isoform 1.