

## Product datasheet for MR225131

### Dysf (NM\_021469) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Dysf (NM\_021469) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Dysf  
**Synonyms:** 2310004N10Rik; AI604795; D6Pas3  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR225131 representing NM\_021469  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGCTCTGTTGCTTGCTGGCAAGGGCCAGCAACCTCCCAATGTGAAGAAGGACCGGCGCAGCGATCCAG  
 TTGCCAGCCTGATTTTTCGAGGGGTAAGAAGAGAACCAAAGTCATCAAGAACAGTGTGAACCCCGTGTG  
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GAAAAATGAGGATTCGTGTCATGGACTGGGACCGCCTCACTCACAATGACACTGTGGCCACCACCTACT  
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GCTCTTCTGGGTGCTTTGTCTACGCCTTCCCGAACTACGCTGCCATGAAGCTGGTGAAGCCCTTTCGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA

Protein Sequence: >MR225131 representing NM\_021469  
 Red=Cloning site Green=Tags(s)

MLCCLLARASNLPNVKKDRRSDPVASLIFRGVKKRTKVIKNSVNPVWNEGFEDLKGIPLDQSSSELLVVV  
 KDHETMGRNRFLEAKIPLQEVLATPSLSASFNAPLLDAKQQTGASLVLQVSYTPPPGAVPLFPPASPASL  
 APSPTLPDMDLVPGGGQSRATWSLLSDSTMDTRYSGKKWPVPTDTGGEEEDTEDQGLTGDEAEPLDQSA  
 AVGPGGPTTPRKPPSHPPHYGAKRKRSSAPPRKLLSDKPQDFQIRVQVIEGRQLPGVNIKPVVKVTA  
 GQTKRTRIQKGNLSPFNELFFNVFDSPLELFDPEIFITVVDSSRLRTDALLGEFRMDVGTVYREPRHAY  
 LRKWL L L S D P D D F S A G A R G Y L K A S L C V L G P G D E A P L D K K D P S E D K E D I E G N L L R P T G V A L R G A H F C L K L F  
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 PSYCGRNCGKLTIFLKYPMEGMPGARMVPQIRIKLWGLSVDEKEFNQFAEGKLSVFAET YENQTKLAL  
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 EKMYTHRRRRWVRLRRRDL SQMEALKRHRQAEAE GEGWEYASLFGWKFHLEYRKTDAFRRRRWRRRMEP  
 LEKTGPAAVFALEGALGGMVDDKSEDSMSVSTLSFGVNRPTISCFIDYGNRYHLRCYLQARDLPAMDKD  
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 PPQREANIYMPQNIKPALQRTAIEILAWGLRNMKSYQMASISSPSLVVECGGQTVQSCVIRNLRKNPNF  
 DVCTLFMEVMLPREDLYCPIVVKVIDNRQFGRRPVVGQCTIRSL ENFLCDPYSAESPSQGGPDDVSL  
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 LQPKDPNGKCDPYIKISIGKKSVDQDNYIPCTLEPVFGKMFELTCTLPLEKDLKITLYDYDLLSKDEKIG  
 ETVIDLENRLLSKFGARCGLPQTYCVSGPNQWRDQLRPSQLLHLFCQQHRIKAPVYRTDRVTFQDKDYTI  
 EEIEAGRLPNPHLGPVEERLALHVLQQQLVPEHVESRPLYSPLQPDIEQGLQMWIDIFPKVLGRPGPP  
 FNITPRKARRFRLRCIIWNTKDVILDDLSTGEEKMSDIYVKGWVGFEEHKQKTDVHYRSLGGEGNFNWR  
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 KCSLDQLDDTFHPEWVSLFEQKTVKGWVPCVTEEGEKMLAGKLEMTLEIVA ESEHEERPAGQGRDEPN  
 MNPKLEDPRRPDTSFLWFTSPYKTMKFI L WRRFRCAIILFIILFILLFLG V F V Y A F P N Y A A M K L V K P F R

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM\_021469

ORF Size: 6300 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\\_021469.3](#), [NP\\_067444.2](#)

RefSeq Size: 6643 bp

RefSeq ORF: 6303 bp

Locus ID: 26903

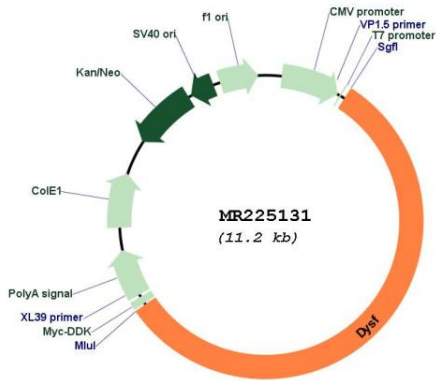
UniProt ID: [Q9ESD7](#)

Cytogenetics: 6 36.14 cM

**MW:** 239.7 kDa

**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]

**Product images:**



Circular map for MR225131