

Product datasheet for **MR225492**

Odf2 (NM_001177661) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Odf2 (NM_001177661) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Odf2
Synonyms:	A1848335; MMTEST29
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>MR225492 representing NM_001177661
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCGAGCTGCCGACCGTTGTTCGAAAAGGAGGCGGAAGCGGGAGGAGCCGCCGGGAGCCGGAC
 TGCATCCGCCCGCGCTCTCCATGGCACGACCCTGGCCTCCGACTTCAACGACTTCATAAGGAGACGGTT
 CTGGGCGCAGCCGTGCCGCTCTTGGTTTCCATCGTGTGGGAAGAACGGAGTAACGAGTCTCACACAGAAA
 AAAGTCTTGAGAACACCTTGTGGCGCACCCAGTGAACCTGTACGAAATCTCATAAGCGCGGAATGAAA
 GGGACACCGTGAATGTACGGCGGAGTGTCCGGGTGAAAACCAAGGTACCTTGGATGCCCCCTGAAAAATC
 ATCTGCCCGCATGTGGGATGCAAGTGGGAGAATCCACCTCATTGCCTGGAGATCACACCACCATCTTCA
 GAAAAGCTGGTCTCGGTGATGCGATTAAGTGACCTTTCTACAGAAGACGACGATTCAAGTCACTGTAAAA
 TGAACCGTTACGATAAGAAGATTGACAGTCTAATGAACCGGTTCGGTTGTCTCAAATCTGAGGTCAAGAT
 GCAGAAAGGTGAACGCCAAATGGCCAAAAGTTCTGGAGGAGAGGAAGGAAGAGCTGGAGGAGGTGGCA
 CACGAGCTTGAGAGACGGAGCATGAGAACACCGGTGCTCAGACACAACATCGAGCGTATCAAGGAGGAGA
 AGGACTTCACCATGCTTCAAAGAAACACCTCCAGCAGGAGAAGGAATGCCTCATGTCCAAACTAGTGGA
 GGCTGAAATGGATGGAGCAGCTGCTGCCAAGCAGGTCAATGGCCTTGAAGGATACCATCGGGAAGCTGAAA
 ACCGAGAAACAGATGACTTGCACCGACATCAACACCTTAAACAGGAGAGGAAGTCTCCTGCAGAAAGC
 TGAGTACCTTTGAGGAGACCAATCGCACCTCCGAGATCTGTTGAGGGAACAGCACTGCAAGAGGATTC
 CGAGAGACTAATGGAGCAACAAGGTACATTACTGAAGCGTCTGGCAGAGGAGACTCAGAGAAAGCGCGC
 CTGCTGTTACTACTGCAAGACAAGGACAAGGAGGTGGAAGAACTCCTCCAGGAGATACAATGTGAAAAGG
 CTCAAGCAAAGACAGCGTCTGAGCTTTCAGTCCATGGAGTCCATGCGGGGGCATTTCAGGACAGCT
 TCGCTGCAAAGAGGCTGAGAACAGTCGCCGTGTCATGCAGATCAAGAACTTAGAGCGCAGTGGGAACCCAG
 CATAAGGCGGAAGTAGAGGCCATCATGGAGCAGCTAAAGGAACTGAAGCAGAAGGAGACCGAGACAAAG
 AGACCCTAAAGAAGGCCATCCGAGCCCAGAAAAGAGCGAGCCGAGAAGAGTGAAGGATGCGCGAGCAGCT
 GCATGTGCAACTGGCCGACAAGGACCTTATGTTGCTGAAGCTTATCTACTCTGGAGTCTTGGAGGAGC
 CGTTACAACCAGGTTGTGAAGGACAAAGGAGATCTTGAGTTGGAGATTATCGTCTAAATGACCGGGTGA
 CAGATCTTGTAAACCAACAACAAGCTTGGAGGAGAAGATGCGGGAAGACCGGGACAGCTTGGTAGAGAG
 GCTGCACCGGCAGACGGCTGAGTACTCTGCATTCAAGCTAGAGAACGAGAGGCTCAAGGCTAGCTTTGCC
 CCTATGGAGGACAAGCTCAACCAGGCTCACTTGGAGGTTCAAGCAGCTGAAGGCGTCAAGTGAAGA
 ACTACGAGGGGATGATAGACAACCTACAAGAGCCAGGTGATGAAAACAAGATTGGAGGCTGATGAAGTGGCTGCACA
 GCTAGAGCGCTGCGACAAGAGACAAGATGCTTAAAGACGAGATGAACAAGAGATCGAGGCGGCCCGT
 CGGCAGTTCAGTCAAGCTGGCTGACCTACAACAGCTGCCTGACATCCTCAAGATCACGGAGGCCAAGC
 TGGCTGAGTGCCAAGACCAGCTGCAGGGCTACGAGAGGAAGAATCGACCTCACAGCCATCATTTTCAGA
 CCTGCGCAGCCGGGTAAAGGACTGGCAGAAGGGATCCCACGAAGTGGCCCGAGCAGGGGCCCGCTTACCG
 AGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR225492 representing NM_001177661
 Red=Cloning site Green=Tags(s)

MGELPTGCRKRRRKRGGAAAGAGLHPPRRLHGTTLASDFNDFIRRRFWAQCPSWFPSCGKNGVTSLTQK
 KVLRTPCGAPSVTVTKSHKRGMGDVTNVRRSVRVKTVPWMPGKSSARHVCGCKWENPPHLEITPPSS
 EKLVSVMRLSDLSTEDDDSGHCKMNRDCKIDSLSMNAVGLKSEVKMQKGERQMAKRFLEERKEELEVA
 HELAETEHEHTVLRHNIERIKKEEDFTMLQKKHLQQEKECLMSKLVEAEMDGAAAQVMALKDITIGLKL
 TEKQMTCTDINTLTRQKELLLQKLSTFEETNRTRLRDLREQHCKEDSERLMEQQGTLKRLAEADSEKAR
 LLLLLQDKDKEVEELLQEIQCEKAQAKTASELSKSMESMRGHLQAQLRCKEAENSRLCMQIKNLSRGNQ
 HKAEVEAIMEQLKELKQKGRDKETLKAIRAQKERAEKSEYAEQLHVQLADKLDLYVAEALSTLESWRS
 RYNQVVKDKGDLELEIIVLNDRVTDLVNQQSLEEKMRDRDSLVERLHRQTAEYSAFKLENERLKASFA
 PMEDKLNQAHLEVQQLKASVKNYEGMIDNYKSQVMKTRLEADEVAAQLERCDKENMLKDEMNKEIEAAR
 RQFQSQLADLQQLPDILKITEAKLAECQDQLQGYERKNIDLTAIISDLRSRVRDQWQKGSHELARAGARLP
 R

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001177661

ORF Size: 2103 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_001177661.1](#), [NP_001171132.1](#)

RefSeq Size: 2264 bp

RefSeq ORF: 2106 bp

Locus ID: 18286

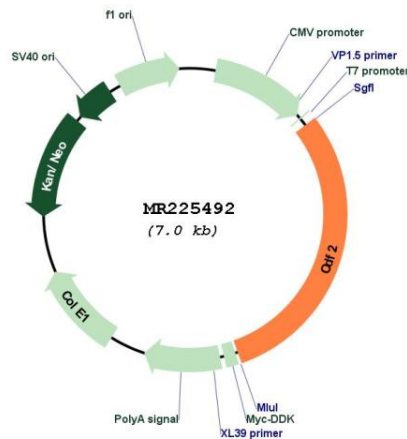
UniProt ID: [A3KGV1](#)

Cytogenetics: 2 20.79 cM

MW: 81.2 kDa

Gene Summary: Seems to be a major component of sperm tail outer dense fibers (ODF). ODFs are filamentous structures located on the outside of the axoneme in the midpiece and principal piece of the mammalian sperm tail and may help to maintain the passive elastic structures and elastic recoil of the sperm tail. May have a modulating influence on sperm motility. Functions as a general scaffold protein that is specifically localized at the distal/subdistal appendages of mother centrioles. Component of the centrosome matrix required for the localization of PLK1 and NIN to the centrosomes. Required for the formation and/or maintenance of normal CETN1 assembly (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225492