

Product datasheet for **MG225492**

Odf2 (NM_001177661) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Odf2 (NM_001177661) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Odf2
Synonyms:	A1848335; MMTEST29
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG225492 representing NM_001177661
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCGAGCTGCCGACCGTTGTGCGAAAAGGAGGCGGAAGCGGGAGGAGCCGCCGGGAGCCGGAC
 TGCATCCGCCGCGCGTCTCCATGGCACGACCCTGGCCTCCGACTTCAACGACTTCATAAGGAGACGGTT
 CTGGGCGCAGCCGTGCCGCTCTTGGTTTCCATCGTGTGGGAAGAACGGAGTAACGAGTCTCACACAGAAA
 AAAGTCTTGAGAACACCTTGTTGGCGCACCCAGTGTAACTGTTACGAAATCTCATAAGCGCGGAATGAAA
 GGGACACCGTGAATGTACGGCGGAGTGTCCGGGTGAAAACCAAGGTACCTTGGATGCCCCCTGAAAAATC
 ATCTGCCCGCATGTGGGATGCAAGTGGGAGAATCCACCTCATTGCCTGGAGATCACACCACCATCTTCA
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 TGAACCGTTACGATAAGAAGATTGACAGTCTAATGAACCGGTTCGGTTGTCTCAAATCTGAGGTCAAGAT
 GCAGAAAAGGTGAACGCCAAATGGCCAAAAGTTCTGGAGGAGAGGAAGGAAGAGCTGGAGGAGGTGGCA
 CACGAGCTTGACAGACGGAGCATGAGAACACCGGTGCTCAGACACAACATCGAGCGTATCAAGGAGGAGA
 AGGACTTCACCATGCTTCAAAGAAACACCTCCAGCAGGAGAAGGAATGCCTCATGTCCAAACTAGTGGA
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 ACCGAGAAAACAGATGACTTGCACCGACATCAACACCTTAAACAGGAGGAGGAACTTCTCCTGCAGAAGC
 TGAGTACCTTTGAGGAGACCAATCGCACCTCCGAGATCTGTTGAGGGAACAGCACTGCAAGAGGATTC
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 CTGCTGTTACTACTGCAAGACAAGGACAAGGAGGTGGAAGAACTCCTCCAGGAGATACAATGTGAAAAGG
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 TCGCTGCAAAGAGGCTGAGAACAGTCGCCTGTGCATGCAGATCAAGAACTTAGAGCGCAGTGGGAACCCAG
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 CAGATCTTGTAAACCAACAACAAGCTTGGAGGAGAAGATGCGGGAAGACCGGGACAGCTTGGTAGAGAG
 GCTGCACCGGCAGACGGCTGAGTACTCTGCATTCAAGCTAGAGAACGAGAGGCTCAAGGCTAGCTTTGCC
 CCTATGGAGGACAAGCTCAACCAGGCTCACTTGGAGGTTCAAGCAGCTGAAGGCGTCAAGTGAAGA
 ACTACGAGGGGATGATAGACAACCTACAAGAGCCAGGTGATGAAAACAAGATTGGAGGCTGATGAAGTGGCTGCACA
 GCTAGAGCGCTGCGACAAGAGAACAAGATGCTTAAAGACGAGATGAACAAGAGATCGAGGCGGCCCGT
 CGGCAGTTCAGTACAGCTGGCTGACCTACAACAGCTGCCTGACATCCTCAAGATCACGGAGGCCAAGC
 TGGCTGAGTGCCAAGACCAGCTGCAGGGCTACGAGAGGAAGAATCGACCTCACAGCCATCATTTCAGA
 CCTGCGCAGCCGGTAAGGGACTGGCAGAAGGGATCCCACGAAGTGGCCCGAGCAGGGGCCCGCTTACCG
 AGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG225492 representing NM_001177661
 Red=Cloning site Green=Tags(s)

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MGELPTGCRKRRRKRGGAAAGAGLHPPRRLHGTTLASDFNDFIRRRFWAQPGRSWFPCGKNGVTSLTQK
KVLRTPCGAPSVTVTKSHKRGMGDTVNVRRSVRVKTKVPWMPGKSSARHVCGCKWENPPHCLEITPPSS
EKLVSVMRLSDLSTEDDDSGHCKMNRDCKIDSMLMNAVGLCKSEVKMQKGERQMAKRFLEERKEELEVA
HELAETEHEHTVLRHNIERIKKEKDFMTLQKHLQQEKECLMSKLVAEAMDGAAAQVMALKDITIGKGL
TEKQMTCTDINTLTRQKELLQKLSSTFEETNRTRLRDLLREQHCKEDSERLMEQQGTLLKRLAEADSEKAR
LLLLLQDKDKEVEELLQEIQCEKAQAKTASELSKSMESMRGHLQAQLRCKEAENSRLCMQIKNLERSGNQ
HKAEEVAIMEQLKELKQKGRDKETLKKAIQAQKERAEKSEEYAEQLHVQLADKDLVYAEALSTLESWRS
RYNQVVKDKGDLELEIIVLNDRVTDLVNQQSLEEKMRDRDSLVERLHRQTAEYSAFKLENERLKASFA
PMEDKLNQAHLEVQQLKASVKNYEGMIDNYKSQVMKTRLEADEVAAQLERCDKENMKLKDEMNKEIEAAR
RQFQSQLADLQQLPDILKITEAKLAECQDQLQGYERKNIDLTAIISDLRSRVRDQWQKGSHELARAGARLP
R
  
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



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

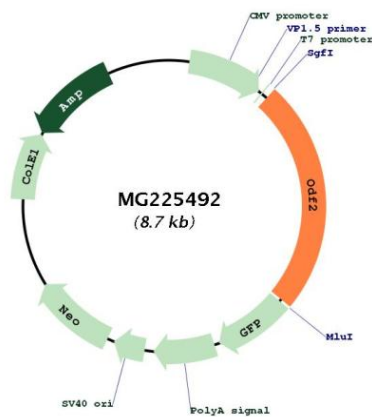
Locus ID: 18286

UniProt ID: [A3KGV1](#)

Cytogenetics: 2 20.79 cM

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 MG225492