

Product datasheet for **MR225548**

Odf2 (NM_001113214) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Odf2 (NM_001113214) 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:

>MR225548 representing NM_001113214
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGAAGGACCGATCTTCAACTCCCCCTTACATGTTACGTGGATGAGAACACTCTGTCCACGTCCACA
TAAAAAACTCCCGAAACCGTCAGCAGCCAGCAGCCAGAAATCTCATAAGCGCGGAATGAAAGGGGACAC
CGTGAATGTACGGCGGAGTGTCCGGGTGAAAACCAAGGTACCTTGATGCCCCCTGGAAAATCATCTGCC
CGGCATGTGGGATGCAAGTGGGAGAATCCACCTCATTGCCTGGAGATCACACCACCATCTTCAGAAAAGC
TGGTCTCGGTGATGCGATTAAGTGACCTTTCTACAGAAGACGACGATTACGGTCACTGTAATAATGAACCG
TTACGATAAGAAGATTGACAGTCTAATGAACGCGGTGCGTTGTCTCAAATCTGAGGTCAAGATGCAGAAA
GGTGAACGCCAAATGGCCAAAAGGTTCTGGAGGAGAGGAAGGAAGAGCTGGAGGAGGTGGCACACGAGC
TTGCAGAGACGGAGCATGAGAACACGGTCTCAGACACAACATCGAGCGTATCAAGGAGGAGAAGGACTT
CACCATGCTTCAAAGAAAACACCTCCAGCAGGAGAAGGAATGCCTCATGTCCAAACTAGTGGAGGCTGAA
ATGGATGGAGCAGCTGCTGCCAAGCAGGTATGGCCTGAAGGATACCATCGGGAAGCTGAAAACCGAGA
AACAGATGACTTGCACCGACATCAACACCTTAACAAGGCAGAAGGAACTTCTCCTGCAGAAGCTGAGTAC
CTTTGAGGAGACCAATCGCACCTCCGAGATCTGTTGAGGGAACAGCACTGCAAAGAGGATCCGAGAGA
CTAATGGAGCAACAAGGTACATTACTGAAGCGTCTGGCAGAGGCAGACTCAGAGAAAAGCGCGCCTGCTGT
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CGGAAGTAGAGGCCATCATGGAGCAGCTAAAGGAACTGAAGCAGAAGGGAGACCGAGACAAGAGACCTT
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ACCAGGTTGTGAAGGACAAAGGAGATCTTGAGTTGGAGATTATCGTCCTAAATGACCGGGTGACAGATCT
TGTAAACCAACAACAAGCTTGGAGGAGAAGATGCGGGAAGACCGGGACAGCTTGGTAGAGAGGCTGCAC
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AGGACAAGCTCAACCAGGCTCACTTGGAGGTTACGAGCTGAAGGCGTCAGTGAAGAACTACGAGGGGAT
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CGCTGCGACAAAGAGAACAAGATGCTTAAAGACGAGATGAACAAAGAGATCGAGGCGGCCGCTCGGCAGT
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AGCCGGGTAAAGGACTGGCAGAAGGGATCCCACGAACTGGCCGAGCAGGGGCCGCTTACCGAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR225548 representing NM_001113214
 Red=Cloning site Green=Tags(s)

MKDRSSTPPLHVHDENTPVHVHIKPKPSAASSQKSHKRGMGKDTVNVRRSVRVKTKVPWMPGKSSA
 RHVCGKWENPPHCLEITPPSSEKLVSMRLSDLSTEDDSDGHCKMNRDYDKKIDSLMNAVGLKSEVKMQK
 GERQMAKRFLEERKEELEVAHELAETEHENTVLRHNIERIKEEKDFMTLQKKHLQQEKECLMSKLVAE
 MDGAAAQVMALKDTIGLKLKTEKQMTCTDINTLTRQKELLQKLSTFEETNRTLRLDLLREQHKEDSER
 LMEQQGTLKRLAEADSEKARLLLLLQDKDKEVEELLQEIQCEKAQAKTASELSKSMESMRGHLQAQLRC
 KEAENSRLCMQIKNLSRGNQHKAEEVAIMEQLKELKQKGDREKTLKKAIRAQKERAEEKSEYAEQLHV
 QLADKDLVYAEALSTLESWSRYNQVVKDKGDLELEIIVLNDRVTDLVNQQSLEEKMRDRDSLVERLH
 RQTAEYSAFKLENERLKASFAPMEDKLNQAHLEVQQLKASVKNYEGMIDNYKSQVMKTRLEADEVAQLE
 RCDKENKMLKDEMKEIEAARRQFQSQLADLQQLPDILKITEAKLAECQDQLQGYERKNIDLTAIISDLR
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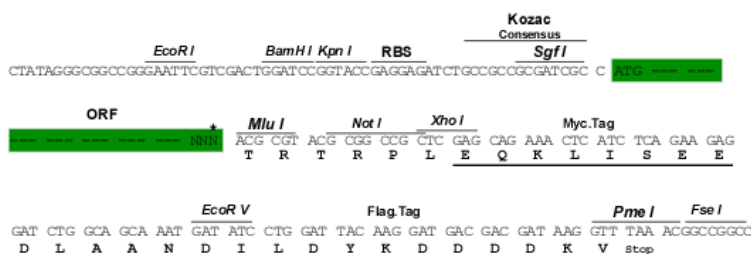
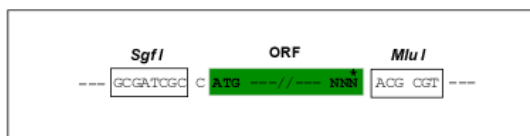
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9044_b08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001113214

ORF Size: 1956 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_001113214.1](#), [NP_001106685.1](#)

RefSeq Size: 2418 bp

RefSeq ORF: 1959 bp

Locus ID: 18286

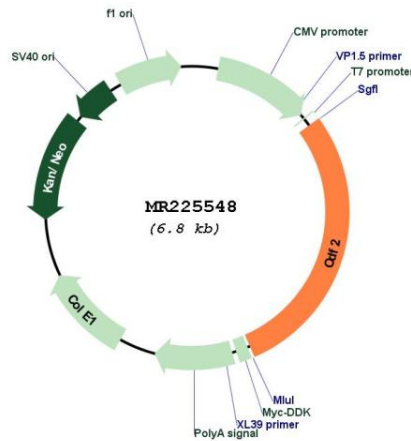
UniProt ID: [A3KGV1](#)

Cytogenetics: 2 20.79 cM

MW: 75.9 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 MR225548