

Product datasheet for **MC220067**

Odf2 (NM_001113214) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Odf2 (NM_001113214) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Odf2
Synonyms:	A1848335; MMTEST29
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC220067 representing NM_001113214
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGGACCGATCTTCAACTCCCCCTTACATGTTACGTGGATGAGAACACTCTGTCCACGTCCACA
 TAAAAAACTCCCGAAACCGTCAGCAGCCAGCAGCCAGAAATCTATAAGCGCGGAATGAAAGGGGACAC
 CGTGAATGTACGGCGGAGTGTCCGGGTGAAAACCAAGGTACCTTGATGCCCCCTGGAAAATCATCTGCC
 CGGCATGTGGGATGCAAGTGGGAGAATCCACCTCATTGCCTGGAGATCACACCACCATCTTCAGAAAAGC
 TGGTCTCGGTGATGCGATTAAGTGACCTTTCTACAGAAGACGACGATTACGGTCACTGTAATAATGAACCG
 TTACGATAAGAAGATTGACAGTCTAATGAACGCGGTGCGTTGTCTCAAATCTGAGGTCAAGATGCAGAAA
 GGTGAACGCCAAATGGCCAAAAGGTTCTGGAGGAGAGGAAGGAAGAGCTGGAGGAGGTGGCACACGAGC
 TTGCAGAGACGGAGCATGAGAACACGGTCTCAGACACAACATCGAGCGTATCAAGGAGGAGAAGGACTT
 CACCATGCTTCAAAGAAAACACCTCCAGCAGGAGAAGGAATGCCTCATGTCCAAACTAGTGGAGGCTGAA
 ATGGATGGAGCAGCTGCTGCCAAGCAGGTATGGCCTGAAGGATACCATCGGGAAGCTGAAAACCGAGA
 AACAGATGACTTGCACCGACATCAACACCTTAACAAGGCAGAAGGAACTTCTCCTGCAGAAGCTGAGTAC
 CTTTGAGGAGACCAATCGCACCTCCGAGATCTGTTGAGGGAACAGCACTGCAAAGAGGATCCGAGAGA
 CTAATGGAGCAACAAGGTACATTACTGAAGCGTCTGGCAGAGGCAGACTCAGAGAAAAGCGCGCCTGCTGT
 TACTACTGCAAGACAAGGACAAGGAGGTGGAAGAACTCTCCAGGAGATAACAATGTGAAAAGGCTCAAGC
 AAAGACAGCGTCTGAGCTTTCGAAGTCCATGGAGTCCATGCGGGGCACTTTCAGGCACAGCTTCGCTGC
 AAAGAGGCTGAGAACAGTGCCTGTGCATGCAGATCAAGAAGTCTAGAGCGCAGTGGGAACCAGCATAAGG
 CGGAAGTAGAGGCCATCATGGAGCAGCTAAAGGAACTGAAGCAGAAGGGAGACCGAGACAAGAGACCTT
 AAAGAAGGCCATCCGAGCCAGAAAAGAGCGAGCCGAGAAGAGTGAAGGAGTATGCCGAGCAGCTGCATGTG
 CAACTGGCCGACAAAGACCTTTATGTTGCTGAAGCTTTATCTACTCTGGAGTCTTGGAGGAGCCGTTACA
 ACCAGGTTGTGAAGGACAAGGAGATCTTGAGTTGGAGATTATCGTCCTAAATGACCGGGTGACAGATCT
 TGTAAACCAACAACAAGCTTGGAGGAGAAGATGCGGGAAGACCGGGACAGCTTGGTAGAGAGGCTGCAC
 CGGCAGACGGCTGAGTACTCTGCATTCAAGCTAGAGAACGAGAGGCTCAAGGCTAGCTTTGCCCTATGG
 AGGACAAGCTCAACCAGGCTCACTTGGAGGTTACGAGCTGAAGGCGTCAAGGAACTACGAGGGGAT
 GATAGACAACATAAGAGCCAGGTGATGAAAACAAGATTGGAGGCTGATGAAGTGGCTGCACAGCTAGAG
 CGCTGCGACAAAGAGAACAAGATGCTTAAAGACGAGATGAACAAAGAGATCGAGGCGGCCGCTCGGCAGT
 TCCAGTACAGCTGGCTGACCTACAACAGCTGCCTGACATCCTCAAGATCACGGAGGCCAAGCTGGCTGA
 GTGCCAAGACCAGCTGCAGGGCTACGAGAGGAAGAACATCGACCTCACAGCCATCATTTACAGACCTGCGC
 AGCCGGGTAAAGGACTGGCAGAAGGGATCCCACGAACTGGCCGAGCAGGGGCCGCTTACCGAGATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001113214
- Insert Size:** 1959 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_001113214.1](#), [NP_001106685.1](#)

RefSeq Size: 2418 bp

RefSeq ORF: 1959 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]

Transcript Variant: This variant (2) uses a different splice site and contains a different 3' end, compared to variant 4. The resulting protein (isoform b) has a shorter and distinct C-terminus when it is compared to isoform d. Variants 2 and 7 both encode the same isoform (a).