

## Product datasheet for **MC219978**

### **Odf2 (NM\_013615) Mouse Untagged Clone**

#### **Product data:**

|                    |                                       |
|--------------------|---------------------------------------|
| Product Type:      | Expression Plasmids                   |
| Product Name:      | Odf2 (NM_013615) 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:** >MC219978 representing NM\_013615  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGTCTGCCTCATCTCAGGCGGCTCCCCAGGTTCCATCGTGTGGGAAGAACGGAGTAACGAGTCTCA  
 CACAGAAAAAAGTCTTGAGAACACCTTGTGGCGCACCCAGTGTAACCTGTTACGAAATCTCATAAGCGCGG  
 AATGAAAGGGGACACCGTGAATGTACGGCGGAGTGTCCGGGTGAAAACCAAGAATCCACCTCATTGCCTG  
 GAGATCACACCACCATCTTCAGAAAAGCTGGTCTCGGTGATGCGATTAAGTGACCTTTCTACAGAAGACG  
 ACGATTACGGTCACTGTAAAATGAACCGTTACGATAAGAAGATTGACAGTCTAATGAACGCGGTCGGTTG  
 TCTCAAATCTGAGGTCAAGATGCAGAAAGGTGAACGCCAAATGGCCAAAAGGTTCTGGAGGAGAGGAAG  
 GAAGAGCTGGAGGAGGTGGCACACGAGCTTGCAGAGACGGAGCATGAGAACACGGTGCTCAGACACAACA  
 TCGAGCGTATCAAGGAGGAGAAGGACTTACCATGCTTCAAAGAAAACACCTCCAGCAGGAGAAGGAATG  
 CCTCATGTCCAACTAGTGGAGGCTGAAATGGATGGAGCAGCTGCTGCCAAGCAGGTCATGGCCTTGAAG  
 GATACCATCGGGAAGCTGAAAACCGAGAAAACAGATGACTTGCACCGACATCAACACCTTAAACAAGGCAGA  
 AGGAACTTCTCCTGCAGAAGCTGAGTACCTTTGAGGAGACCAATCGCACCTCCGAGATCTGTTGAGGGA  
 ACAGCACTGCAAAGAGGATTCGAGAGACTAATGGAGCAACAAGGTACATTAAGGAGCTTGGCAGAG  
 GCAGACTCAGAGAAAAGCGCGCTGCTGTTACTACTGCAAGACAAGGACAAGGAGGTGGAAGAAGCTCCTCC  
 AGGAGATACAATGTGAAAAGGCTCAAGCAAAGACAGCGTCTGAGCTTCCAAGTCCATGGAGTCCATGCG  
 GGGGCAATTTGCAGGCACAGCTTCGCTGCAAAGAGGCTGAGAACAGTCGCCTGTGCATGCAGATCAAGAAC  
 TTAGAGCGCAGTGGGAACCAGCATAAAGCGGAAGTAGAGGCCATCATGGAGCAGCTAAAGGAACTGAAGC  
 AGAAGGGAGACCGAGACAAAGAGACCCTAAAGAAGGCCATCCGAGCCAGAAAAGCGGAGCCGAGAAGAG  
 TGAGGAGTATGCCGAGCAGCTGCATGTGCAACTGGCCGACAAGGACCTTTATGTTGCTGAAGCTTTATCT  
 ACTCTGGAGTCTTGGAGGAGCCGTTACAACCAGGTTGTGAAGGACAAGGAGATCTTGAAGTGGAGATTA  
 TCGTCCTAAATGACCGGGTGACAGATCTTGTAAACCAACAACAAGCTTGGAGGAGAAGATGCGGGAAGA  
 CCGGGACAGCTTGGTAGAGAGGCTGCACCGGCAGACGGCTGAGTACTCTGCATTCAAGCTAGAGAACGAG  
 AGGCTCAAGGCTAGCTTTGCCCTATGGAGGACAAGCTCAACCAGGCTCACTTGGAGGTTACGACGCTGA  
 AGGCGTCAGTGAAGAAGTACGAGGGGATGATAGACAACACAAGAGCCAGGTGATGAAAACAAGATTGGA  
 GGCTGATGAAGTGGCTGCACAGCTAGAGCGCTGCGACAAAGAGAACAAGATGCTTAAAGACGAGATGAAC  
 AAAGAGATCGAGGCGCCGTCGCGAGTCCAGTACAGCTGGCTGACCTACAACAGCTGCCTGACATCC  
 TCAAGATCACGGAGGCCAAGCTGGCTGAGTGCCAAAGACCAGCTGCAGGGTACGAGAGGAAGAACAATCGA  
 CCTCACAGCCATCATTTAGACCTGCGCAGCCGGTAAGGGACTGGCAGAAAGGGATCCCACGAACTGGCC  
 CGAGCAGGGGCCCGCTTACCGAGATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_013615
- Insert Size:** 1917 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\\_013615.3](#), [NP\\_038643.1](#)

**RefSeq Size:** 2391 bp

**RefSeq ORF:** 1917 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 (3) has multiple differences that result in a different splice site and distinct 5' and 3' ends, compared to variant 4. The encoded protein (isoform c) has shorter and distinct termini when it is compared to isoform d.