

Product datasheet for **MC221858**

Odf2 (NM_001177659) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Odf2 (NM_001177659) 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: >MC221858 representing NM_001177659
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGAAGGACCGATCTTCAACTCCCCCTTACATGTTACGTGGATGAGAACACTCTGTCCACGTCCACA
TAAAAAACTCCGAAACCGTCAGCAGCCAGCAGCCAGAAATCTCATAAGCGCGGAATGAAAGGGGACAC
CGTGAATGTACGGCGGAGTGTCCGGGTGAAAACCAAGGTACCTTGATGCCCCCTGGAAAATCATCTGCC
CGGCATGTGGGATGCAAGTGGGAGAATCCACCTCATTGCCTGGAGATCACACCACCATCTTCAGAAAAGC
TGGTCTCGGTGATGCGATTAAGTGACCTTTCTACAGAAGACGACGATTACGGTCACTGTAATAATGAACCG
TTACGATAAGAAGATTGACAGTCTAATGAACGCGGTGCGTTGTCTCAAATCTGAGGTCAAGATGCAGAAA
GGTGAACGCCAAATGGCCAAAAGGTTCTGGAGGAGAGGAAGGAAGAGCTGGAGGAGGTGGCACACGAGC
TTGCAGAGACGGAGCATGAGAACACGGTCTCAGACACAACATCGAGCGTATCAAGGAGGAGAAGGACTT
CACCATGCTTCAAAGAAAACACCTCCAGCAGGAGAAGGAATGCCTCATGTCCAAACTAGTGGAGGCTGAA
ATGGATGGAGCAGCTGTGCCAAGCAGGTATGGCCTGAAGGATACCATCGGGAAGCTGAAAACCGAGA
AACAGATGACTTGACCCGACATCAACACCTTAAACAAGGCAGAAGGAACTTCTCCTGCAGAAGCTGAGTAC
CTTTGAGGAGACCAATCGCACCTCCGAGATCTGTTGAGGGAACAGCACTGCAAAGAGAAGGATCCGAG
AGACTAATGGAGCAACAAGGTACATTACTGAAGCGTCTGGCAGAGGCAGACTCAGAGAAAAGCGCGCTGC
TGTTACTACTGCAAGACAAGGACAAGGAGGTGGAAGAATCCTCCAGGAGATAAATGTAAAAGGCTCA
AGCAAAGACAGCGTCTGAGCTTTC AAGTCCATGGAGTCCATGCGGGGCCATTTGCAGGCACAGCTTCGC
TGCAAAGAGGCTGAGAACAGTGCCTGTGCATGCAGATCAAGAATAGAGCGCAGTGGGAACAGCATA
AGCCGGAAGTAGAGGCCATCATGGAGCAGCTAAAGGAATGAAGCAGAAGGGAGACCAGACAAGAGAGAC
CCTAAAGAAGGCCATCCGAGCCAGAAAAGAGCGAGCCGAGAAGAGTGAAGGAGTATGCCGAGCAGCTGCAT
GTGCAACTGGCCGACAAGGACCTTTATGTTGCTGAAGCTTTATCTACTCTGGAGTCTGGAGGAGCCGTT
ACAACCAGGTTGTGAAGGACAAGGAGATCTTGAGTTGGAGATTATCGTCTAAATGACCGGGTGACAGA
TCTTGTAAACCAACAACAAGCTTGGAGGAGAAGATGCGGGAAGACCGGGACAGCTTGGTAGAGGCTG
CACCGGCAGACGGCTGAGTACTCTGCATTCAAGCTAGAGAACGAGAGGCTCAAGGCTAGCTTTGCCCTA
TGGAGGACAAGCTCAACCAGGCTCACTTGGAGGTTGAGCAGCTGAAGGCGTCAGTGAAGAATACGAGGG
GATGATAGACAATAAAGAGCCAGGTGATGAAAACAAGATTGGAGGCTGATGAAGTGGCTGCACAGCTA
GAGCGCTGCGACAAGAGAACAAGATGCTTAAAGACGAGATGAACAAGAGATCGAGGCGGCCCGTCCGC
AGTTCAGTACAGCTGGCTGACCTACAACAGCTGCCTGACATCCTCAAGATCACGGAGGCCAAGCTGGC
TGAGTGCCAAGACCAGCTGCAGGGCTACGAGAGGAAGAATCGACCTCACAGCCATCATTTTCAGACCTG
CGCAGCCGGATCGAACATCAGGGGGACAAGCTGGAGATGGCGAGAGAGAAAATCAGGCTTCCCAGAAGG
AAAATAAACAGCTGAGTCAGAAGGTGGATGAACTTGAAGAGGAACTGGAGGCTACCAGCGCCAGAAATGT
CGAGTTCTACAGGTGATTGCCAAGAGGGAGGAGGCAATCCACCAGGCTCAGCTGCGGTTGGAGGAGAAA
ACGAGGGAGTGTGGTCAATGGCGAGGCAGTTGGAGAGTGCCATTGAAGATGCCAGGCGACAGGTGGAGC
AAACCAAGGAACAGGCACTCTCCAAGGAACGAGCAGCCAGAGCAAAATCCTGGACCTTGAGACTCAGCT
GAGCAGGACCAAGACAGAATTTGGCCAGCTGCGGCGGACTCGTGATGATGCGGATCGCAGATACCAGAGC
CGCTGCAGGATCTGAAAGATCGCTGGAGCAGTCTGAGAGTACCAACCGCAGCATGCAGAATTATGTCC
AATTCCTCAAGGCTCTTATGCAAATGTGTTTGGGGATGCTCCCTATACATCCTCCTACCTGACGAGCTC
ACCCATCCGCTCCGATCGCCCCCTGCC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001177659
Insert Size: 2481 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:	<ol style="list-style-type: none">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:	<u>NM_001177659.1</u> , <u>NP_001171130.1</u>
RefSeq Size:	3919 bp
RefSeq ORF:	2481 bp
Locus ID:	18286
UniProt ID:	<u>A3KGV1</u>
Cytogenetics:	2 20.79 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (4) encodes isoform d. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>