

## Product datasheet for **MG225548**

### Odf2 (NM\_001113214) Mouse Tagged ORF Clone

#### Product data:

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



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**ORF Nucleotide Sequence:**

>MG225548 representing NM\_001113214  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAAGGACCGATCTTCAACTCCCCCTTACATGTTACGTGGATGAGAACACTCTGTCCACGTCCACA  
 TAAAAAACTCCCGAAACCGTCAGCAGCCAGCAGCCAGAAATCTCATAAGCGCGGAATGAAAGGGGACAC  
 CGTGAATGTACGGCGGAGTGTCCGGGTGAAAACCAAGGTACCTTGATGCCCCCTGGAAAATCATCTGCC  
 CGGCATGTGGGATGCAAGTGGGAGAATCCACCTCATTGCCTGGAGATCACACCACCATCTTCAGAAAAGC  
 TGGTCTCGGTGATGCGATTAAGTGACCTTTCTACAGAAGACGACGATTACGGTCACTGTAATAATGAACCG  
 TTACGATAAGAAGATTGACAGTCTAATGAACGCGGTGCGTTGTCTCAAATCTGAGGTCAAGATGCAGAAA  
 GGTGAACGCCAAATGGCCAAAAGGTTCTGGAGGAGAGGAAGGAAGAGCTGGAGGAGGTGGCACACGAGC  
 TTGCAGAGACGGAGCATGAGAACACGGTCTCAGACACAACATCGAGCGTATCAAGGAGGAGAAGGACTT  
 CACCATGCTTCAAAGAAAACACCTCCAGCAGGAGAAGGAATGCCTCATGTCCAAACTAGTGGAGGCTGAA  
 ATGGATGGAGCAGCTGCTGCCAAGCAGGTATGGCCTGAAGGATACCATCGGGAAGCTGAAAACCGAGA  
 AACAGATGACTTGCAACCGACATCAACACCTTAACAAGGCAGAAGGAACTTCTCCTGCAGAAGCTGAGTAC  
 CTTTGAGGAGACCAATCGCACCTCCGAGATCTGTTGAGGGAACAGCACTGCAAAGAGGATCCGAGAGA  
 CTAATGGAGCAACAAGGTACATTACTGAAGCGTCTGGCAGAGGCAGACTCAGAGAAAAGCGCGCCTGCTGT  
 TACTACTGCAAGACAAGGACAAGGAGGTGGAAGAACTCTCCAGGAGATACAATGTGAAAAGGCTCAAGC  
 AAAGACAGCGTCTGAGCTTTCAGTCCATGGAGTCCATGCGGGGCATTTGCAGGCACAGCTTCGCTGC  
 AAAGAGGCTGAGAACAGTGCCTGTGCATGCAGATCAAGAACTTAGAGCGCAGTGGGAACACAGATAAGG  
 CGGAAGTAGAGGCCATCATGGAGCAGCTAAAGGAACTGAAGCAGAAGGGAGACCGACAAGAGACCTT  
 AAAGAAGGCCATCCGAGCCAGAAAGAGCGAGCCGAGAAGAGTGAAGGAGTATGCCGAGCAGCTGCATGTG  
 CAACTGGCCGACAAAGACCTTTATGTTGCTGAAGCTTTATCTACTCTGGAGTCTTGAGGAGCCGTTACA  
 ACCAGGTTGTGAAGGACAAAGGAGATCTTGAGTTGAGATTATCGTCCTAAATGACCGGGTGACAGATCT  
 TGTAAACCAACAACAAGCTTGGAGGAGAAGATGCGGGAAGACCGGGACAGCTTGGTAGAGAGGCTGCAC  
 CGGCAGACGGCTGAGTACTCTGCATTCAAGCTAGAGAACGAGAGGCTCAAGGCTAGCTTTGCCCTATGG  
 AGGACAAGCTCAACCAGGCTCACTTGAGGTTTACGAGCTGAAGGCGTCACTGAAGAACTACGAGGGGAT  
 GATAGACAACATAAGAGCCAGGTGATGAAAACAAGATTGGAGGCTGATGAAGTGGCTGCACAGCTAGAG  
 CGCTGCGACAAAGAGAACAAGATGCTTAAAGACGAGATGAACAAAGAGATCGAGGCGGCCGTGGCAGT  
 TCCAGTACAGCTGGCTGACCTACAACAGCTGCCTGACATCCTCAAGATCACGGAGGCCAAGCTGGCTGA  
 GTGCCAAGACCAGCTGCAGGGCTACGAGAGGAAGAACATCGACCTCACAGCCATCATTTACAGACCTGCGC  
 AGCCGGGTAAAGGACTGGCAGAAGGGATCCCACGAACTGGCCGAGCAGGGGCCGCTTACCGAGA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG225548 representing NM\_001113214  
 Red=Cloning site Green=Tags(s)

MKDRSSTPPLHVHDENTPVHVHIKKLPKPSAASSQKSHKRGMGDVTNVRRSVRVTKVPWMPGKSSA  
 RHVGCWENPPHLEITPPSSEKLVSMRLSDLSTEDDSDGHCKMNRDIDSLMNAVGCLKSEVKMQK  
 GERQMAKRFLEERKEELEVAHELAETEHENTVLRHNIERIKKEKDFMLQKHLQKEKECLMSKLVAE  
 MDGAAAQVMALKDTIGKLTKEQMTCTDINTLTRQKELLQKLSFTEETNRTLRLDLLREQHKEDSER  
 LMEQQGTLKRLAEADSEKARLLLLQDKDKEVEELLQEIQCEKAQAKTASELSKSMESMRGHLQAQLRC  
 KEAENSRLCMQIKNLERSGNQHKA EVEAIMEQLKELKQKDRDKETLKKAIIRAQKERAEEKSEYAEQLHV  
 QLADKDLVVAEALSTLESWSRSYNQVVKDKGDLEIIVLNDRVTDLVNQQSLEEKMRDRDSLVERLH  
 RQTAEYSFAFKLENERLKASFAPMEDKLNQAHLEVQQLKASVKNYEGMIDNYKSQVMKTRLEADEVAAQLE  
 RCDKENKMLKDEMNKEIEAARRQFQSQLADLQQLPDILKITEAKLAECQDQLQGYERKNIDLTAIISDLR  
 SRVRDQWQGSHELARAGARLPR

**TRTRPLE** - GFP Tag - V



<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001113214.1</a> , <a href="#">NP_001106685.1</a>
<b>RefSeq Size:</b>	2418 bp
<b>RefSeq ORF:</b>	1959 bp
<b>Locus ID:</b>	18286
<b>UniProt ID:</b>	<a href="#">A3KGV1</a>
<b>Cytogenetics:</b>	2 20.79 cM
<b>Gene Summary:</b>	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]