

## Product datasheet for **RC231381**

### ODF2 (NM\_153432) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                     |
| Product Name:             | ODF2 (NM_153432) Human Tagged ORF Clone |
| Tag:                      | Myc-DDK                                 |
| Symbol:                   | ODF2                                    |
| Synonyms:                 | CT134; ODF2/1; ODF2/2; ODF84            |
| Mammalian Cell Selection: | Neomycin                                |
| Vector:                   | pCMV6-Entry (PS100001)                  |
| E. coli Selection:        | Kanamycin (25 ug/mL)                    |



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ORF Nucleotide  
Sequence:

>RC231381 representing NM\_153432  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGGGCGAGCTGCCGACCGGGTGTGCGAAAAGGAGGCGGAAGCGGGGAGGAGCCGCTGCCAGAGCCAGAC  
TGCATCCGCCGCGCGTCTCCATGGCACGACCCTGGCCTCCGACTTCAACGACTTCATAAGGCGGGGTTT  
CTGGGCGCAGCCGTGTCGCTCCTGGTTTCCATCGTGTGGGAAGAACGGAGTAACGAGTCTCACGCAGAAA  
AAGGTCTTGAGAGCACCTTGTCGCGCACCCAGTGTAACTGTGACGAAATCTCACAAAGCGAGGAATGAAAG  
GGGACACTGTGAATGTGCGGGGAGTGTCCGGGTGAAAACCAAGGTACCTTGGATGCCCCCTGAAAAATC  
ATCTGCCCGCCGTGGGATGCAAGTGGGAGAATCCACCTCATTGCCTGGAGATCACGCCACCATCTTCA  
GAAAAGCTGGTCTCAGTGATGCGGTTAAGTGACCTCTACAGAAGATGATGACTCAGGTCAGTGTAAAA  
TGAACCGTTATGATAAGAAGATTGATAGTCTAATGAATGCGGTTGGTTGTCTGAAGTCTGAGGTCAAGAT  
GCAAAAAGGTGAGCGCCAGATGGCCAAAAGGTTCTGGAGGAACGGAAGGAAGAGCTGGAGGAGGTGCC  
CACGAACCTGGCTGAGACTGAGCAGGAGAACACCGGTGTTGAGGCACAACATCGAGCGCATGAAGGAGGAGA  
AGGACTTCACCATACTTCAGAAGAAACCTACAAAGGAGAAGGAGTGCCTCATGTCCAAGCTGGTGGGA  
GGCGGAAATGGATGGGGCTGCGGCTGCCAAGCAGGTGATGGCCTTGAAGGATACCATCGGGAAGCTGAAA  
ACGGAGAAACAAATGACCTGCACGGACATCAACACCCTGACAAGGAGGAGGAACTTCTCCTGCAGAAGC  
TGAGCACATTTGAGGAGACCAACCGCACCTCCGAGACCTCCTGAGGGAACAGCACTGCAAAAGAGGATTC  
TGAAAGACTAATGGAGCAACAAGGAGCACTGCTGAAACGGCTGGCGGAGGCCGACTCAGAGAAAGCGCGC  
CTGCTGTTACTGCTGCAAGACAAGGACAAGGAGGTGGAAGAGCTCCTTCAGGAAATACAATGTGAGAAGG  
CTCAAGCAAAGACAGCCTCTGAGCTTTCTAAATCCATGGAGTCCATGCGTGGGCATTTGAGGCACAGCT  
TCGGTCCAAAGAGGCTGAGAACAGTGCCTGTGCATGCAGATTAAGAATCTGGAGCGCAGCGGGAATCAG  
CATAAGGCAGAAGTGGAGGCCATCATGGAGCAGCTGAAGGAGTTGAAGCAGAAGGAGACCGAGACAAAG  
AGAGCTTGAAGAAGGCCATCCGAGCCCAGAAGGAGCGAGCCGAGAAGAGCGAGGAGTATGCTGAGCAGCT  
ACACGTGCAACTCGCTGACAAGGATCTTTATGTCGCTGAAGCTTTATCCACTCTGGAATCCTGGAGGAGC  
CGCTACAACCAAGTTGTAAGAAAAGGGAGACCTTGAGCTGGAATTTATGTCCTGAATGACCGGGTAA  
CAGATCTTGTAAACCAACAACAACCCCTGGAGGAGAAGATGCGGGAAGACCGGGATAGCCTGGTGGAGAG  
ACTACACCGTCAGACTGCTGAGTATCCGCATTCAAGCTGGAGAATGAGAGGCTGAAGGCCAGCTTTGCT  
CCAATGGAGGACAACTCAACCAGGCACACCTCGAGGTCCAGCAGCTGAAGGCCTCAGTGAAGAATATG  
AGGGGATGATTGACAACATAAGAGTCAGGTGATGAAGACCAGATTGGAGGCTGATGAAGTAGCTGCCCA  
GCTAGAACGCTGTGACAAAGAGAACAAGATCCTTAAAGATGAGATGAACAAAGAGATTGAGGCGGCACGA  
AGGCAGTTCAGTCTCAGCTGGCTGACCTGCAGCAGCTCCCTGACATCCTGAAGATCACGGAGGCGAAGC  
TGGCTGAGTGCCAAGACCAACTGCAGGGCTATGAGCGGAAGAATCGACCTCACAGCCATCATATCAGA  
CCTGCGCAGCCGGTAAGGGACTGGCAGAAAGGTTCCACGAACCTGACCCGAGCAGGGGCCCGCATACCA  
AGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC231381 representing NM\_153432  
Red=Cloning site Green=Tags(s)

MGELPTGCRKRRRKRGGAAARLHPPRRLHGTTLASDFNDFIRRRFWAQCPSWFPSCGKNGVTSLTQK  
 KVLRAPCGAPSVTVTKSHKRGMGDVTNVRRSVRVKTVPWMPGKSSARPVGCKWENPPHLEITPPSS  
 EKLVSVMRLSDLSTEDDDSGHCKMNRDCKIDSLSMNAVGLKSEVKMQKGERQMAKRFLEERKEELEVA  
 HELAETEHEHTVLRHNIERMKEEKDFTILQKKHLQQEKECLMSKLVEAEMDGAAAQVMALKDITIGKLK  
 TEKQMTCTDINTLTRQKELLLQKLSTFEETNRTRLRDLLREQHCKEDSERLMEQQGALLKRLAEADSEKAR  
 LLLLLQDKDKEVEELLQEIQCEKAQAKTASELSKSMESMRGHLQAQLRSKEAENSRLCMQIKNLSRGNQ  
 HKAEVEAIMEQLKELKQKGRDKESLKKAIQAQKERAEKSEYAEQLHVQLADKDLVYAEALSTLESWRS  
 RYNQVVKKEGDLELEIIVLNDRVTDLVNQQTLEEKMRDRDSLVERLHRQTAEYSAFKLENERLKASFA  
 PMEDKLNQAHLEVQQLKASVKNYEGMIDNYKSQVMKTRLEADEVAAQLERC DKENKILKDEMKEIEAAR  
 RQFQSQLADLQQLPDILKITEAKLAECQDQLQGYERKNIDLTAIISDLRSRVRDQWQKGSHELTRAGARIP  
 R

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_153432

**ORF Size:** 2103 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\\_153432.1](#), [NP\\_702910.1](#)

**RefSeq ORF:** 2106 bp

**Locus ID:** 4957

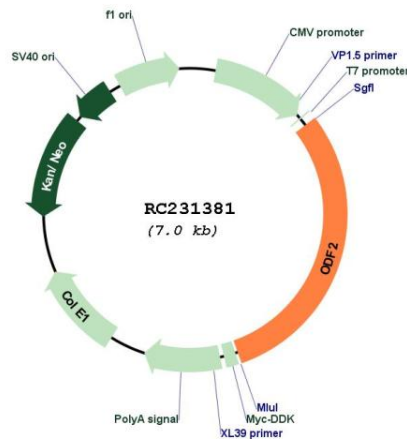
**UniProt ID:** [Q5BJF6](#)

**Cytogenetics:** 9q34.11

**MW:** 81.3 kDa

**Gene Summary:** The outer dense fibers are cytoskeletal structures that surround the axoneme in the middle piece and principal piece of the sperm tail. The fibers function in maintaining the elastic structure and recoil of the sperm tail as well as in protecting the tail from shear forces during epididymal transport and ejaculation. Defects in the outer dense fibers lead to abnormal sperm morphology and infertility. This gene encodes one of the major outer dense fiber proteins. Alternative splicing results in multiple transcript variants. The longer transcripts, also known as 'Cenexins', encode proteins with a C-terminal extension that are differentially targeted to somatic centrioles and thought to be crucial for the formation of microtubule organizing centers. [provided by RefSeq, Oct 2010]

## Product images:



Circular map for RC231381