

Product datasheet for **RC223663**

ODF2 (NM_153437) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | ODF2 (NM_153437) 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) |



[View online »](#)

ORF Nucleotide
Sequence:

>RC223663 representing NM_153437
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTGCCTCATCCTCAGGCGGCTCCCCAGGTTCCATCGTGTGGGAAGAACGGAGTAACGAGTCTCA
CGCAGAAAAAGGCTTTGAGAGCACCTTGTGGCGCACCCAGTGAACTGTGACGAAATCTCACAAGCGAGG
AATGAAAGGGGACACTGTGAATGTGCGGCGGAGTGTCCGGGTGAAAACCAAGAATCCACCTCATTGCCTG
GAGATCACGCCACCATCTTCAGAAAAGCTGGTCTCAGTGATGCGGTTAAGTGACCTCTCTACAGAAGATG
ATGACTCAGGTCCTGTAATGAACCGTTATGATAAGAAGATTGATAGTCTAATGAATGCGGTTGGTTG
TCTGAAGTCTGAGGTCAAGATGCAAAAAGGTGAGCGCCAGATGGCCAAAAGGTTCTGGAGGAACCGAAG
GAAGAGCTGGAGGAGGTGGCCACGAACCTGGCTGAGACTGAGCACGAGAACACGGTGTGGAGGCACAACA
TCGAGCGCATGAAGGAGGAGAAGGACTTACCATACTTCAGAAGAAACACCTACAACAGGAGAAGGAGTG
CCTCATGTCCAAGCTGGTGGAGGCGGAAATGGATGGGGCTGCGGCTGCCAAGCAGGTCATGGCCTTGAAG
GATACCATCGGGAAGCTGAAAACGGAGAAAACAAATGACCTGCACGGACATCAACACCCTGACAAGGCAGA
AGGAACTTCTCCTGCAGAAGCTGAGCACATTTGAGGAGACCAACCGCACCTCCGAGACCTCCTGAGGGA
ACAGCACTGCAAAGAGGATTCTGAAAGACTAATGGAGCAACAAGGAGCACTGCTGAAACGGCTGGCGGAG
GCCGACTCAGAGAAAAGCGCGCCTGCTGTTACTGCTGCAAGACAAGGACAAGGAGGTGGAAGAGCTCCTTC
AGGAAATACAATGTGAGAAGGCTCAAGCAAAGACAGCCTCTGAGCTTTCTAAATCCATGGAGTCCATGCG
TGGGCAATTTGCAGGCACAGCTTCGGTCCAAGAGGCTGAGAACAGTCGCCTGTGCATGCAGATTAAGAAT
CTGGAGCGCAGCGGGAATCAGCATAAAGGCAGAAGTGGAGGCCATCATGGAGCAGCTGAAGGAGTTGAAGC
AGAAGGGAGACCGAGACAAAGAGAGCTTGAAGAAGGCCATCCGAGCCCAGAAGGAGCGAGCCGAGAAGAG
CGAGGAGTATGCTGAGCAGCTACACGTGCAACTCGCTGACAAGGATCTTTATGTCGCTGAAGCTTTATCC
ACTCTGGAATCCTGGAGGAGCCGCTACAACCAAGTTGTAAGAAAAGGGAGACCTTGAGCTGGAATTA
TTGTCCTGAATGACCGGTAACAGATCTTGTAAACCAACAACAACCCCTGGAGGAGAAGATGCGGGAAGA
CCGGGATAGCCTGGTGGAGAGACTACACCGTCAGACTGCTGAGTATTCCGCATTCAAGCTGGAGAATGAG
AGGCTGAAGGCCAGCTTTGCTCCAATGGAGGACAACTCAACCAGGCACACCTCGAGGTCCAGCAGCTGA
AGGCCTCAGTGAAGAATATGAGGGATGATTGACAACTATAAGAGTCAGGTGATGAAGACCAGATTGGA
GGCTGATGAAGTAGCTGCCAGCTAGAACGCTGTGACAAAAGAGAACAAGATCCTTAAAGATGAGATGAAC
AAAGAGATTGAGGCGGCACGAAGCAGTCCAGTCTCAGCTGGCTGACCTGCAGCAGCTCCCTGACATCC
TGAAGATCACGGAGGCGAAGCTGGCTGAGTGCCAAGACCAACTGCAGGGCTATGAGCGGAAGAACATCGA
CCTCACAGCCATCATATCAGACCTGCGCAGCCGGTAAGGGACTGGCAGAAAAGGGTCCCACGAACCTGACC
CGAGCAGGGGCCCGCATACCAAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC223663 representing NM_153437
Red=Cloning site Green=Tags(s)

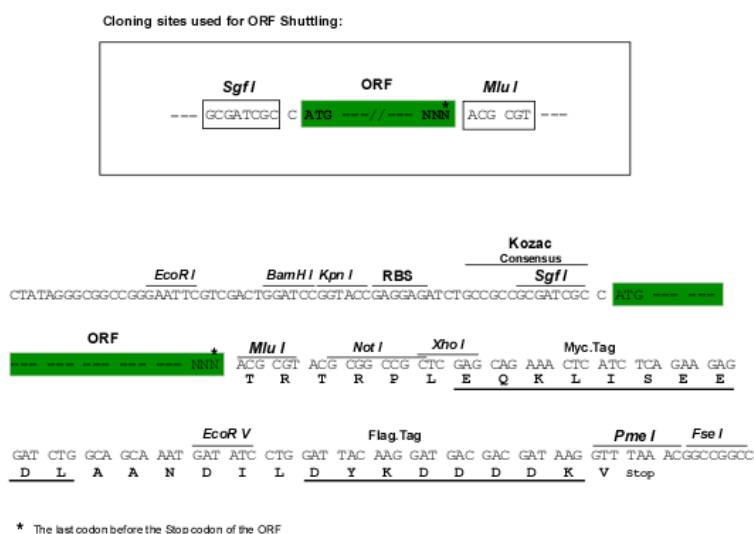
MSASSSGSPRFPSCGKNGVTSLTQKKVLRAPCGAPSVTVTKSHKRGMGDVTNVRRSVRVKTKNPPHCL
 EITPPSSEKLVSMRSLSDLSTEDDDSGHCKMNRDYDKKIDSLMNAVGLKSEVKMQKGERQMAKRFLEERK
 EELEEVAAHELAETEHEENTVLRHNIERMKEEKDFITLQKKHLQEQECLMSKLVAAEMDAAAAKQVMALK
 DTIGKLTQKMTCTDINTLTRQKELLQKLSTFEETNRTLRLDLLREQHCKEDSERLMEQQGALLKRLAE
 ADSEKARLLLLLQDKDKEVEELLQEIQCEKAQAKTASELSKSMESMRGHLQAQLRSKEAENSRLCMQIKN
 LERSGNQHKAEVEAIMEQLKELKQKGDRLKESLKKAIRAQKERAEKSEYAEQLHVQLADKDLVVAEALS
 TLESWSRYNQVYKEKGDLELEIIVLNDRVTDLVNQQTLEEKMRDRDSLVERLHRQTAEYSAFKLENE
 RLKASFAPMEDKLNQAHLEVQQLKASVKNYEGMIDNYKSQVMKTRLEADEVAAQLERC DKENKILKDEM
 KEIEAARRQFQSQLADLQQLPDILKITEAKLAECQDQLQGYERKNIDLTAIISDLRSRVRDWQKGSHELT
 RAGARIPR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8070_h04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_153437

ORF Size: 1914 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_153437.2](#)

RefSeq Size: 2298 bp

RefSeq ORF: 1917 bp

Locus ID: 4957

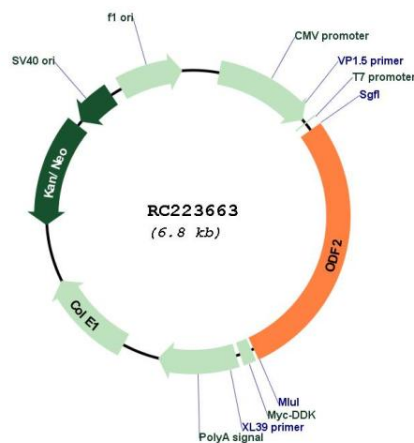
UniProt ID: [Q5BJF6](#)

Cytogenetics: 9q34.11

MW: 73.2 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 RC223663