

## Product datasheet for **RG233044**

### ODF2 (NM\_153440) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ODF2 (NM_153440) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ODF2
Synonyms:	CT134; ODF2/1; ODF2/2; ODF84
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG233044 representing NM\_153440  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGCAGAAACCGGTACCTCCTGCTGCTGGTTCCATCGTGTGGGAAGAACGGAGTAACGAGTCTCA  
 CGCAGAAAAAGGCTTTGAGAGCACCTTGTGGCGCACCCAGTGAACTGTGACGAAATCTCACAAAGCGAGG  
 AATGAAAGGGGACACTGTGAATGTGCGGCGGAGTGTCCGGGTGAAAACCAAGAATCCACCTCATTGCCTG  
 GAGATCACGCCACCATCTTCAGAAAAGCTGGTCTCAGTGATGCGGTTAAGTGACCTCTACAGAAGATG  
 ATGACTCAGGTCAGTGTAAAATGAACCGTTATGATAAGAAGATTGATAGTCTAATGAATGCGGTTGGTTG  
 TCTGAAGTCTGAGGTCAAGATGCAAAAAGGTGAGCGCCAGATGGCCAAAAGGTTCTGGAGGAACGGAAAG  
 GAAGAGCTGGAGGAGGTGGCCACGAACGGCTGAGACTGAGCACGAGAACACGGTGTGGAGGCACAACA  
 TCGAGCGCATGAAGGAGGAGAAGGACTTACCATACTTCAGAAGAAACACCTACAACAGGAGAAGGAGTG  
 CCTCATGTCCAAGCTGGTGGAGGCGGAAATGGATGGGGCTGCGGCTGCCAAGCAGGTCATGGCCTTGAAG  
 GATACCATCGGGAAGCTGAAAACGGAGAAAACAAATGACCTGCACGGACATCAACACCTGACAAGGCAGA  
 AGGAACTTCTCCTGCAGAAGCTGAGCACATTTGAGGAGACCAACCGCACCTCCGAGACCTCCTGAGGGA  
 ACAGCACTGCAAAGAGGATTCTGAAAGACTAATGGAGCAACAAGGAGCACTGCTGAAACGGCTGGCGGAG  
 GCCGACTCAGAGAAAAGCGCGCTGCTGTTACTGCTGCAAGACAAGGACAAGGAGGTGGAAGAGCTCCTTC  
 AGGAAATACAATGTGAGAAGGCTCAAGCAAAGACAGCCTCTGAGCTTTCTAAATCCATGGAGTCCATGCG  
 TGGGCAATTTGCAGGCACAGCTTCGGTCCAAGAGGCTGAGAACAGTCGCTGTGCATGCAGATTAAGAAT  
 CTGGAGCGCAGCGGGAATCAGCATAAGGCAGAAGTGGAGGCCATCATGGAGCAGTGAAGGAGTTGAAGC  
 AGAAGGGAGACCGAGACAAAGAGAGCTTGAAGAAGGCCATCCGAGCCAGAAGGAGCGGAGAGGAGAG  
 CGAGGAGTATGCTGAGCAGCTACACGTGCAACTCGCTGACAAGGATCTTTATGTCGCTGAAGCTTTATCC  
 ACTCTGGAATCCTGGAGGAGCCGCTACAACCAAGTTGTAAGAAGAAAAGGAGACCTTGGAGCTGGAATTA  
 TTGTCCTGAATGACCGGTAACAGATCTTGTAAACCAACAACAACCTGGAGGAGAAGATGCGGGAAGA  
 CCGGGATAGCCTGGTGGAGAGACTACACCGTCAGACTGCTGAGTATTCGCATTCAAGCTGGAGAATGAG  
 AGGCTGAAGGCCAGCTTTGCTCCAATGGAGGACAACTCAACCAGGCACACCTCGAGGTCCAGCAGCTGA  
 AGGCCTCAGTGAAGAATATGAGGGATGATTGACAACTATAAGAGTCAGGTGATGAAGACCAGATTGGA  
 GGCTGATGAAGTAGCTGCCAGCTAGAACGCTGTGACAAAAGAGAACAAGATCCTTAAAGATGAGATGAAC  
 AAAGAGATTGAGGCGGCAGGAGGAGTCCAGTCTCAGCTGGCTGACCTGCAGCAGCTCCCTGACATCC  
 TGAAGATCACGGAGGCGAAGCTGGCTGAGTGCCAAGACCAACTGCAGGGCTATGAGCGGAAGAACATCGA  
 CCTCACAGCCATCATATCAGACCTGCGCAGCCGGTAAGGGACTGGCAGAAAAGGGTCCCACGAACTGACC  
 CGAGCAGGGGCCCGCATACCAAGA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG233044 representing NM\_153440  
 Red=Cloning site Green=Tags(s)

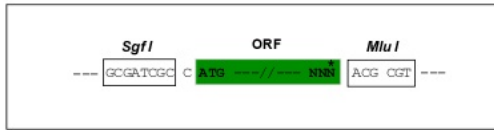
MGRNRYPPACWFPSCGKNGVTSLTQKKVLRAPCGAPSVTVTKSHKRGMKGDTVNVRRSVRVKTKNPPHCL  
 EITPPSSEKLVSMRLSDLSTEDDDSGHCKMNRDVKKIDSLMNAVGLKSEVKMQKGERQMAKRFLLEERK  
 EEELEVAHELAE TEHENTVLRHNIERMKEEKDFITLQKKHLQQEKECLMSKLVAEEMDGA AAAKQVMALK  
 DTIGLKTQKMTCTDINTLTRQKELLQKLSFEEETNRTLRLDLLREQHCKEDSERLMEQQGALLKRLAE  
 ADSEKARLLLLLQDKDKEVEELLQEIQCEKAQAKTASELSKSMESMRGHLQAQLRSKEAENSRLCMQIKN  
 LERSGNQHKAEVEAIMEQLKELKQKGDRLKSLKKAIRAQKERAEEKSEYAEQLHVQLADKDLVVAEALS  
 TLESWRSRYNQVVKEKGDLELEIIVLNDRVTDLVNQQTLEEKMRDRDSLVERLHRQTAEYSAFKLENE  
 RLKASFAPMEDKLNQAHLEVQQLKASVKNYEGMIDNYKSQVMKTRLEADEVAQAQLERC DKENKILKDEM  
 KEIEAARRQFQSQLADLQQLPDILKITEAKLAECQDQLQGYERKNIDLTAIISDLRSRVRDQKGSHELT  
 RAGARIPR

**TRTRPLE** - GFP Tag - V

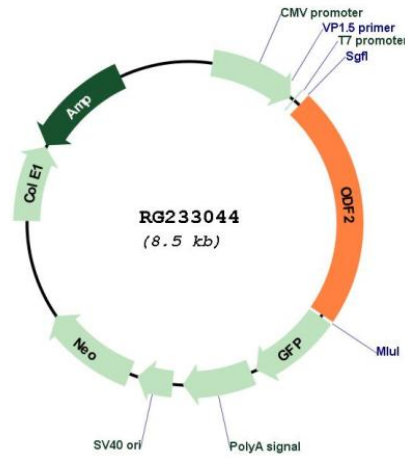
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_153440

ORF Size: 1914 bp

<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_153440.1</a> , <a href="#">NP_702918.1</a>
<b>RefSeq Size:</b>	2171 bp
<b>RefSeq ORF:</b>	1917 bp
<b>Locus ID:</b>	4957
<b>Cytogenetics:</b>	9q34.11
<b>Gene Summary:</b>	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]