

## Product datasheet for SC329934

### ODF2 (NM\_001242354) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ODF2 (NM\_001242354) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** ODF2  
**Synonyms:** CT134; ODF2/1; ODF2/2; ODF84  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC329934 representing NM\_001242354.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

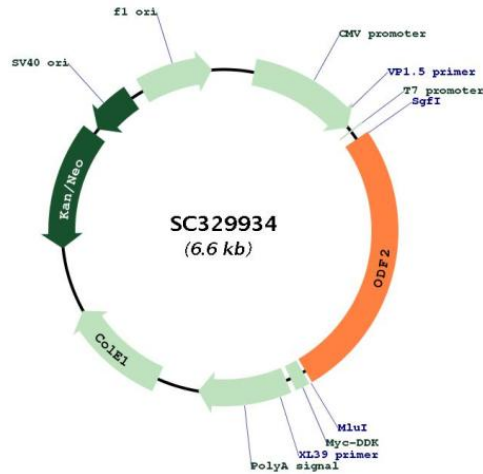
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AGATGA
  
```

**Restriction Sites:** Sgfl-Mlul



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**Plasmid Map:**


**ACCN:** NM\_001242354

**Insert Size:** 1731 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:**

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\\_001242354.1](#)

**RefSeq Size:** 2227 bp

**RefSeq ORF:** 1731 bp

**Locus ID:** 4957

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

**Cytogenetics:** 9q34.11

**MW:** 67 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]

Transcript Variant: This variant (8) uses an alternate splice site in the 5' coding region, lacks an alternate in-frame exon, and differs in the 3' UTR and coding sequence, compared to variant 1. The resulting isoform (8) is shorter at the N-terminus, lacks an alternate internal segment, and has a shorter and distinct C-terminus compared to isoform 1.