

## Product datasheet for SC305112

### ODF1 (NM\_024410) Human Untagged Clone

#### Product data:

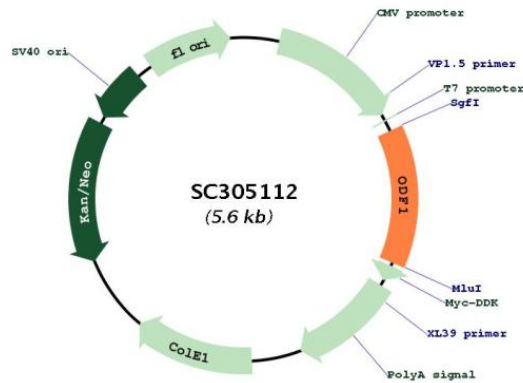
Product Type:	Expression Plasmids
Product Name:	ODF1 (NM_024410) Human Untagged Clone
Tag:	Tag Free
Symbol:	ODF1
Synonyms:	CT133; HSPB10; ODF; ODF2; ODF27; ODFP; ODFPG; ODFPGA; ODFPGB; RT7; SODF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC305112 representing NM_024410. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCTGCACTGAGTTGTCTCTTGGACAGTGTCAGAAGGGACATAAAGAAGGTGGACAGAGAACTAAGG
CAACTGAGATGCATCGACGAATTTAGCACACGGTGCCTGTGCGACTTGTATATGCACCCCTATTGCTGC
TGTGACTTGCACCCATATCCGTACTGCTTGTGCTATTCCAAGCGATCACGCTCTTGCGCCCTGTGTGAT
CTTACCCATGTTGCCTGTGTGATTATAAGCTTTACTGTCTGCGACCATCTCTCAGAAGTTTGGAGAGG
AAAGCCATCAGAGCCATAGAAGATGAGAAGCGAGAGCTTGCCAACTGAGAAGAACAACAATAGAATT
CTGGCTTCTCCTGCTGTAGCAGTAACATTTTAGGATCGGTGAATGTATGCGGTTTTGAACCCGATCAA
GTCAAAGTTCGAGTGAAGGATGAAAGGTATGTGTGTCGGCTGAGCGGGAGAACAGGTACGACTGCCTT
GGATCGAAAAAGTACAGCTACATGAACATCTGCAAAGAGTTCAGCTTGCCGCCCTGTGTGGATGAGAAG
GATGTAACATACTCCTATGGGCTCGGCAGCTGTGTCAAGATCGAGTCTCCTTGCTACCCTTGCACTTCT
CCTTGACGCCCTGCAGCCCCTGCAGCCCCTGCAACCCCTGCAGCCCCTGCAACCCGTGCAGCCCATAT
GATCCTTGCAACCCGTGTTATCCCTGTGGAAGCCGATTTTCTGTAGGAAGATGATTTTGTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: Sgfl-Mlul



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**Plasmid Map:**


**ACCN:** NM\_024410

**Insert Size:** 753 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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_024410.3](#)

RefSeq Size: 1007 bp

RefSeq ORF: 753 bp

Locus ID: 4956

UniProt ID: [Q14990](#)

Cytogenetics: 8q22.3

MW: 28.4 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. The human outer dense fibers contains at least 10 major proteins and this gene encodes the main protein. [provided by RefSeq, Jul 2008]