

Product datasheet for **RG215265**

ODF1 (NM_024410) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ODF1 (NM_024410) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ODF1
Synonyms:	CT133; HSPB10; ODF; ODF2; ODF27; ODFP; ODFPG; ODFPGA; ODFPGB; RT7; SODF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215265 representing NM_024410 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGCACTGAGTTGTCTCTTGGACAGTGTCAGAAGGGACATAAAGAAGGTGGACAGAGAACTAAGGC
AACTGAGATGCATCGACGAATTTAGCACACGGTGCCTGTGCGACTTGATATGCACCCCTATTGCTGCTG
TGACTTGACCCATATCCGTAAGTGTGCTATTCCAAGCGATCAGCTCTTGGCGCTGTGTGATCTC
TACCCATGTTGCCTGTGTGATTATAAGCTTTACTGTCTGCGACCATCTCTCAGAAGTTTGGAGAGGAAAG
CCATCAGAGCCATAGAAGATGAGAAGCGAGAGCTTGCCAACTGAGAAGAACAACAAATAGAATTCTGGC
TTCTCTCTGCTGTAGCAGTAACATTTTAGGATCGGTGAATGTATGCGGTTTTGAACCCGATCAAGTCAAA
GTTGAGTGAAGGATGGAAGGTATGTGTGTGCGCTGAGCGGGAGAACAGGTACGACTGCCTTGGATCGA
AAAAGTACAGCTACATGAACATCTGCAAAGAGTTGAGCTTGCCGCCCTGTGTGGATGAGAAGGATGTAAC
ATACTCTATGGGCTCGGCAGCTGTGTCAAGATCGAGTCTCTTGCTACCTTGCACTTCTCCTTGACG
CCGTGCAGCCCGTGAACCCCTGCAACCCCTGCAGCCCTGCAACCCGTGCAGCCCATATGATCCTTGCA
ACCGTGTTATCCCTGTGGAAGCCGATTTCTGTAGGAAGATGATTTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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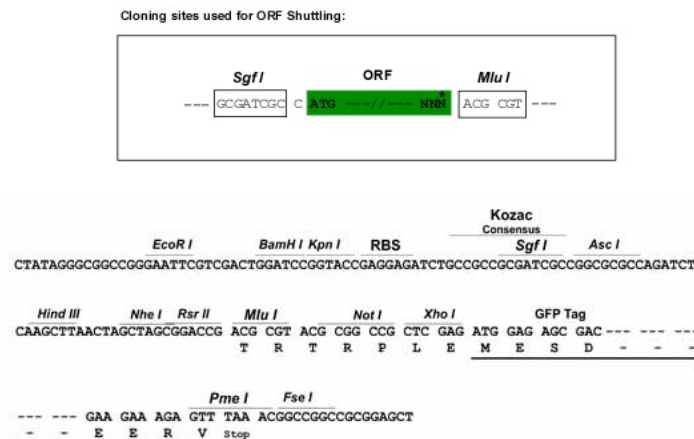
Protein Sequence: >RG215265 representing NM_024410
 Red=Cloning site Green=Tags(s)

MAALSCLLDVRRDIKKVDRELRLRCIDFSTRCLCDLYMHPYCCDLHPYPYCLCYSKRSRSCGLCDL
 YPCCLCDYKLYCLRPSLRSLERKAIRAIIEDEKRELAKLRRTTNRILASSCCSSNILGSVNVCGFEPDQVK
 VRVKDGKVCVSAERENRYDCLGSKKYSYMNICKEFSLPPCVDEKDVITYSYGLGSCVKIESPCYPCTSPCS
 PCSPCNPNCPCPCNPSPYDPCNPCYPCGSRFSCRKMIL

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024410

ORF Size: 750 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_024410.2](#), [NP_077721.1](#)

RefSeq Size: 983 bp

RefSeq ORF: 753 bp

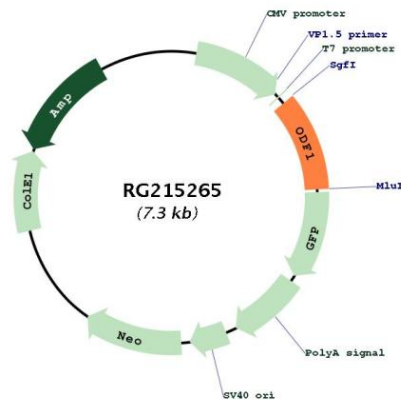
Locus ID: 4956

UniProt ID: [Q14990](#)

Cytogenetics: 8q22.3

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]

Product images:



Circular map for RG215265