

Product datasheet for **RG211295**

ODF4 (NM_153007) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ODF4 (NM_153007) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ODF4
Synonyms:	CT134; CT136; OPPO1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG211295 representing NM_153007 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATGCAGAGTACTCTGGGAATGAGTTCCCCAGGTCAGAAGGAGAAAGAGACCAACATCAGAGACCTG
GAAAGGAAAGGAAGAGTGGGGAGGCAGGACGGGGCACAGGTGAGCTGGGACAAGATGGGAGACTGCTGTC
CTCCACCCTCTCCCTCAGTAGTAACAGGTCCTTGGGCCAGCGCCAGAACTCTCCGCTGCCCTTCAATGG
AGAATCACACACAGCTTCCGCTGGATGGCCAGGTGTTGGCCTCTGAGCTCAGCCTGTTGCCTTTATCC
TACTATTGGTCATGGCCTTCTCCAAGAAATGGCTGGACCTCTCTAGGAGCCTCTTCTACCAGCGCTGGCC
CGTGGATGTCAGCAACAGAATCCACACATCAGCCACGTTATGTCCATGGGGCTCCTGCACTTTTGCAA
TCCAGGAGCTGTTCTGACTTAGAGAATGGGAAAGTCACCTTCATCTTCCACCCTCATGCTATTCCCCA
TTAACATCTGGATCTTCGAGTTGGAAAGGAATGTATCCATCCCCATAGGCTGGAGCTATTTTCATTGGTTG
GCTGGTGCTTATCCTATACTTACCTGCGCGATCCTTTGCTACTTCAACCATAAAAGTTTCTGGAGTCTG
ATTCTGAGCCACCCAGTGGTGCCGTGCTCCTGCAGCAGAGTTTCGGCTCAGTAGAAGAATCTCCAAGGG
CACAGACGATCACAGACACCCCATCACCCAGGAGGGAGTCTGGATCCTGAGCAGAAGGATACACATGT
G

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG211295 representing NM_153007
Red=Cloning site Green=Tags(s)

MDAEYSGNEFPRSEGERDQHQRPGKERKSGEAGRGTGELGQDGRLLSSTLSLSSNRSLGQRQNSPLPFQW
 RITHSFRWMAQVLAESLSLVAFILLLVMAFSKKWLDLSRSLFYQRWPVDVSNRIHTSAHVMSMGLLHFCK
 SRSCSDLENGKVTFIFSTLMLFPINIWIFELERNVSIPIGWSYFIGWLVLLLYFTCAILCYFNHKSFWSL
 ILSHPSGAVSCSSSFGSVEESPRAQITITDTPITQEGVLDPEQKDTHTV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_153007

ORF Size: 771 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_153007.3](#), [NP_694552.1](#)

RefSeq Size: 1149 bp

RefSeq ORF: 774 bp

Locus ID: 146852

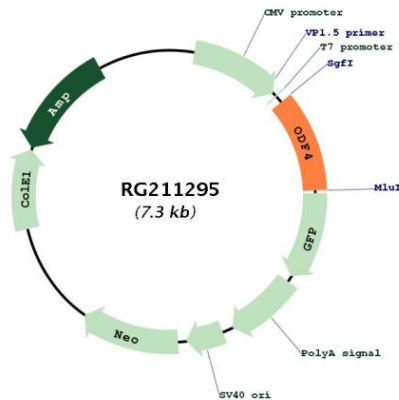
UniProt ID: [Q2M2E3](#)

Cytogenetics: 17p13.1

Protein Families: Transmembrane

Gene Summary: This gene encodes a protein that is localized in the outer dense fibers of the tails of mature sperm. This protein is thought to have some important role in the sperm tail. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2016]

Product images:



Circular map for RG211295