

Product datasheet for **RR203471**

Odf4 (NM_001007670) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Odf4 (NM_001007670) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Odf4
Synonyms: MGC94483
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR203471 representing NM_001007670
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAATCTGACTTGACTGTGGAAGAATCTGAGACGATAAAGACCAGGAGCAGGCGGCCACTCACAGAGC
ATCGTCGCCACTCCCTATTGCCCTTCAATGAAATTGGCACACAGCTCCCGCTGGATGGCCAGGTGGT
GGCCTCCGAGTTCAGCCTGCTGGCCTTCTCCTGCTCCTGCTCATGGTCTTCTCCAAGAAATGGTTGTAT
CCTTCTAAGAGTCGTTTCCATCAGCGCTACCCCAAAACATCACCAAGAGAGTCTACACCTCCATCCACA
GTATGTCCACAGGACTCCTGTACATCTGCATATCTAAAAGCTGCCTCAGCTCAGACAATGAGGAAGACAA
TTTTAAGATGTGGACAATCCATCCAGCTTTTGGGGTGGCTAAGATAAGTTTCATCCTGGCCGTAGGGCTG
GGTTTTGTCTCACCGTGTGGCTTCATCTGCCGTACCTGCCCTGCCTGCAGAGAAATGCCTTTCTTTGGCT
TGATTGGGATCATCCTGAGCTTCTGTGAAGTCACTTAATTTTCTCACCTCCTGTTGTTCCCTGTTAA
CCTCTGGATCTACGAGCTGAAGAAGAATATATCGGTTCCCATCGGCTGGAGCTATTTTCATTGGTTGGCTC
GTGCTCATTCTGTATTTAACTTGTGGGATCCTTGTACCTCAACCATAAAAACCTCTGGAGCCTGATTA
TGAGCAGCTCCTCCATCAACGCTACTTGCAGCAGCTCAGTGCCAGTGTCTCTGATGAATACCTCACAGAT
CTCCAAAAGCCAGGCGGACATCCTGGATCCTACTCAGGATGACCAAAAGCCATTAAGTTTCAGATAACATC
GCCTTACCACCAACCCAGACACCACTGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RR203471 representing NM_001007670
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MESDLTVEESETIKTRSRRLTEHRRHSLLPLQWKLHSSRWMAQVASEFSLLAFLLLLLMVFSSKKWLY
 PSKSRFHQRYPQNIKRVYTSIHSMSTGLLYICISKSCLSSDNEEDNFKMWTIHPAFGVAKISFILAVGL
 GFVLTVWLHLPYLPCLQRMPPFFGLIGIILSFCEVTLIFLTLFFPNLWIYELKKNISVPIGWSYFIGWL
 VLILYLTCGILCYLNHKNFWSLIMSSSSINATCSSVPSVLMNTSQISKSQADILDPTQDDQKPLSSDNI
 ALPPNPDTTD

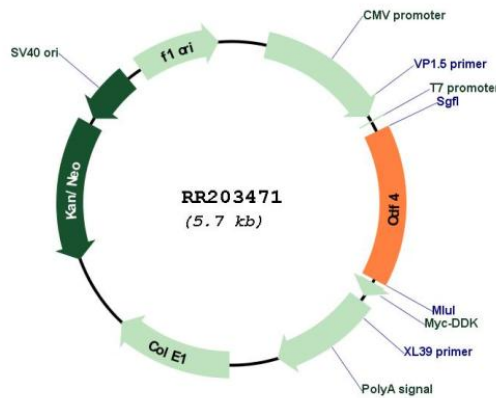
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001007670

ORF Size: 870 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:	<ol style="list-style-type: none">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_001007670.1 , NP_001007671.1
RefSeq Size:	1464 bp
RefSeq ORF:	873 bp
Locus ID:	303236
UniProt ID:	Q6AXT9
Cytogenetics:	10q24
MW:	33.1 kDa
Gene Summary:	Component of the outer dense fibers (ODF) of spermatozoa which could be involved in sperm tail structure, sperm movement and general organization of cellular cytoskeleton. [UniProtKB/Swiss-Prot Function]