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Product datasheet for SC306603

ODF2 (NM_153437) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ODF2 (NM_153437) Human Untagged Clone
Tag:	Tag Free
Symbol:	ODF2
Synonyms:	CT134; ODF2/1; ODF2/2; ODF84
Vector:	pCMV6 series

View online »

Fully Sequenced ORF:

>NCBI ORF sequence for NM_153437, the custom clone sequence may differ by one or more nucleotides

ATGTCTGCCTCATCCTCAGGCGGCTCCCCCAGGTTTCCATCGTGTGGGAAGAACGGAGTA
ACGAGTCTCACGCAGAAAAAGGTCTTGAGAGCACCTTGTGGCGCACCCAGTGTAACTGTG
ACGAAATCTCACAAGCGAGGAATGAAAGGGGACACTGTGAATGTGCGGCGGAGTGTCCGG
GTGAAAACCAAGAATCCACCTCATTGCCTGGAGATCACGCCACCATCTTCAGAAAAGCTG
GTCTCAGTGATGCGGTTAAGTGACCTCTCTACAGAAGATGATGACTCAGGTCACTGTAAA
ATGAACCGTTATGATAAGAAGATTGATAGTCTAATGAATGCGGTTGGTTGTCTGAAGTCT
GAGGTCAAGATGCAAAAAGGTGAGCGCCAGATGGCCAAAAGGTTCCTGGAGGAACGGAAG
GAAGAGCTGGAGGAGGTGGCCCACGAACTGGCTGAGACTGAGCACGAGAACACGGTGTTG
AGGCACAACATCGAGCGCATGAAGGAGGAGAAGGACTTCACCATACTTCAGAAGAAACAC
CTACAACAGGAGAAGGAGTGCCTCATGTCCAAGCTGGTGGAGGCGGAAATGGATGGGGCT
GCGGCTGCCAAGCAGGTCATGGCCTTGAAGGATACCATCGGGAAGCTGAAAACGGAGAAA
CAAATGACCTGCACGGACATCAACACCCTGACAAGGCAGAAGGAACTTCTCCTGCAGAAG
CTGAGCACATTTGAGGAGACCAACCGCACCCTCCGAGACCTCCTGAGGGAACAGCACTGC
AAAGAGGATTCTGAAAGACTAATGGAGCAACAAGGAGCACTGCTGAAACGGCTGGCGGAG
GCCGACTCAGAGAAAGCGCGCCTGCTGTTACTGCTGCAAGACAAGGACAAGGAGGTGGAA
GAGCTCCTTCAGGAAATACAATGTGAGAAGGCTCAAGCAAAGACAGCCTCTGAGCTTTCT
AAATCCATGGAGTCCATGCGTGGGCATTTGCAGGCACAGCTTCGGTCCAAAGAGGCTGAG
AACAGTCGCCTGTGCATGCAGATTAAGAATCTGGAGCGCAGCGGGAATCAGCATAAGGCA
GAAGTGGAGGCCATCATGGAGCAGCTGAAGGAGTTGAAGCAGAAGGGAGACCGAGACAAA
GAGAGCTTGAAGAAGGCCATCCGAGCCCAGAAGGAGCGAGCCGAGAAGAGCGAGGAGTAT
GCTGAGCAGCTACACGTGCAACTCGCTGACAAGGATCTTTATGTCGCTGAAGCTTTATCC
ACTCTGGAATCCTGGAGGAGCCGCTACAACCAAGTTGTAAAAGAAAAGGGAGACCTTGAG
CTGGAAATTATTGTCCTGAATGACCGGGTAACAGATCTTGTAAACCAACAACAAACCCTG
GAGGAGAAGATGCGGGAAGACCGGGATAGCCTGGTGGAGAGACTACACCGTCAGACTGCT
GAGTATTCCGCATTCAAGCTGGAGAATGAGAGGCTGAAGGCCAGCTTTGCTCCAATGGAG
GACAAACTCAACCAGGCACACCTCGAGGTCCAGCAGCTGAAGGCCTCAGTGAAGAACTAT
GAGGGGATGATTGACAACTATAAGAGTCAGGTGATGAAGACCAGATTGGAGGCTGATGAA
GTAGCTGCCCAGCTAGAACGCTGTGACAAAGAGAACAAGATCCTTAAAGATGAGATGAAC
AAAGAGATTGAGGCGGCACGAAGGCAGTTCCAGTCTCAGCTGGCTGACCTGCAGCAGCTC
CCTGACATCCTGAAGATCACGGAGGCGAAGCTGGCTGAGTGCCAAGACCAACTGCAGGGC
TATGAGCGGAAGAACATCGACCTCACAGCCATCATATCAGACCTGCGCAGCCGGGTAAGG
GACTGGCAGAAAGGGTCCCACGAACTGACCCGAGCAGGGGCCCGCATACCAAGATGA

Restriction Sites: Please inquire

ACCN: NM_153437

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_153437.1, NP_702915.1
RefSeq Size:	2298 bp
RefSeq ORF:	1917 bp
Locus ID:	4957
UniProt ID:	Q5BJF6
Cytogenetics:	9q34.11
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 (6) differs in the 5' UTR, 3' UTR, and coding region, compared to variant 1. The resulting protein (isoform 6) has distinct N- and C-termini and is shorter than isoform 1.