

Product datasheet for **MG210835**

Odf2 (BC057001) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Odf2 (BC057001) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Odf2 |
| Synonyms: | A1848335; MMTEST29 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide
Sequence:

>MG210835 representing BC057001
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGAAGGACCGATCTTCAACTCCCCCTTACATGTTACGTGGATGAGAACACTCTGTCCACGTCCACA
TAAAAAACTCCCGAAACCGTCAGCAGCCAGCAGCCAGAAATCTCATAAGCGCGGAATGAAAGGGGACAC
CGTGAATGTACGGCGGAGTGTCCGGGTGAAAACCAAGGTACCTTGATGCCCCCTGGAAAATCATCTGCC
CGGCATGTGGGATGCAAGTGGGAGAATCCACCTCATTGCCTGGAGATCACACCACCATCTTCAGAAAAGC
TGGTCTCGGTGATGCGATTAAGTGACCTTTCTACAGAAGACGACGATTACGGTCACTGTAATAATGAACCG
TTACGATAAGAAGATTGACAGTCTAATGAACGCGGTGCGTTGTCTCAAATCTGAGGTCAAGATGCAGAAA
GGTGAACGCCAAATGGCCAAAAGGTTCTGGAGGAGAGGAAGGAAGAGCTGGAGGAGGTGGCACACGAGC
TTGCAGAGACGGAGCATGAGAACACGGTCTCAGACACAACATCGAGCGTATCAAGGAGGAGAAGGACTT
CACCATGCTTCAAAGAAAACACCTCCAGCAGGAGAAGGAATGCCTCATGTCCAAACTAGTGGAGGCTGAA
ATGGATGGAGCAGCTGTGCCAAGCAGGTATGGCCTGAAGGATACCATCGGGAAGCTGAAAACCGAGA
AACAGATGACTTGACCCGACATCAACACCTTAACAAGGCAGAAGGAACTTCTCCTGCAGAAGCTGAGTAC
CTTTGAGGAGACCAATCGCACCTCCGAGATCTGTTGAGGGAACAGCACTGCAAAGAGGATCCGAGAGA
CTAATGGAGCAACAAGGTACATTACTGAAGCGTCTGGCAGAGGCAGACTCAGAGAAAAGCGCGCCTGCTGT
TACTACTGCAAGACAAGGACAAGGAGGTGGAAGAACTCTCCAGGAGATACAATGTGAAAAGGCTCAAGC
AAAGACAGCGTCTGAGCTTTCAGTCCATGGAGTCCATGCGGGGCGATTGGCAGGCACAGCTTCGCTGC
AAAGAGGCTGAGAACAGTGCCTGTGCATGCAGATCAAGAACTTAGAGCGCAGTGGGAACCAAGCATAAGG
CGGAAGTAGAGGCCATCATGGAGCAGCTAAAGGAACTGAAGCAGAAGGGAGACCGAGACAAGAGACGCT
AAAGAAGGCCATCCGAGCCAGAAAAGAGCGGAGCCGAGAAGAGTGAAGGATGCGGAGCAGCTGCATGTG
CAACTGGCCGACAAAGACCTTTATGTTGCTGAAGCTTTATCTACTCTGGAGTCTTGAGGAGCCGTTACA
ACCAGGTTGTGAAGGACAAGGAGATCTTGAGTTGGAGATTATCGTCCTAAATGACCGGGTGACAGATCT
TGTAACCAACAACAAGCTTGGAGGAGAAGATGCGGGAAGACCGGGACAGCTTGGTAGAGAGGCTGCAC
CGGCAGACGGCTGAGTACTCTGCATTCAAGCTAGAGAACGAGAGGCTCAAGGCTAGCTTTGCCCTATGG
AGGACAAGCTCAACCAGGCTCACTTGAGGTTTACGAGCTGAAGGCGTCAGTGAAGAACTACGAGGGGAT
GATAGACAACATAAGAGCCAGGTGATGAAAACAAGATTGGAGGCTGATGAAGTGGCTGCACAGCTAGAG
CGCTGCGACAAAGAGAACAAGATGCTTAAAGACGAGATGAACAAAGAGATCGAGGCGGCCGTCGGCAGT
TCCAGTCACAGCTGGCTGACCTACAACAGCTGCCTGACATCCTCAAGATCACGGAGGCCAAGCTGGCTGA
GTGCCAAGACCAGCTGCAGGGCTACGAGAGGAAGAACATCGACCTCACAGCCATCATTTTCAGACCTGCGC
AGCCGGATCGAACATCAGGGGACAAGCTGGAGATGGCGAGAGAGAAACATCAGGCTTCCAGAAGGAAA
ATAAACAGCTGAGTCAGAAGGTGGATGAACTTGAGAGGAACTGGAGGCTACCAGCGCCAGAATGTGCA
GTTCTACAGGTGATTGCCAAGAGGGAGGAGGCAATCCACCAGGCTCAGCTGCGGTTGGAGGAGAAAACG
AGGGAGTGTGGGTCATTGGCGAGGCAGTTGGAGAGTGCCATTGAAGATGCCAGGCGACAGGTGGAGCAA
CCAAGGAACAGGCACTCTCCAAGGAACGAGCAGCCAGAGCAAAATCCTGGACCTTGAGACTCAGCTGAG
CAGGACCAAGACAGAACTTGCCAGCTGCGGCGGACTCGTGATGATGCGGATCGCAGATACCAGAGCCGC
CTGCAGGATCTGAAAGATCGCCTGGAGCAGTCTGAGAGTACCAACCGCAGCATGCAGAATTATGTCCAAT
TCTCAAGGCTCTTATGCAAATGTGTTTGGGATGCTCCCTATACATCCTCCTACCTGACGAGCTCACC
CATCCGCTCCCGATCGCCCCCTGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210835 representing BC057001
Red=Cloning site Green=Tags(s)

MKDRSSTPPLHVHDENTPVHVHIKKLPKPSAASSQKSHKRGMGDTVNVRRSVRVKTKVPWMPGKSSA
RHVGCKWENPPHCLEITPPSSEKLVSMRLSDLSTEDDSDGHCKMNRDCKIDSLMNAVGLKSEVKMQK
GERQMAKRFLEERKEELEVAHELAETEHENTVLRHNIERIKEEKDFTMLQKKHLQQEKECLMSKLV
MDGAAAQVMALKDTIGKLTKEQMTCTDINTLTRQKELLQKLSTFEETNRTLRLDLREQHKEDSER
LMEQQGTLKRLAEADSEKARLLLLLQDKDKEVEELLQEIQCEKAQAKTASELSKSMESMRGHWAQLRC
KEAENSRLCMQIKNLERSGNQHKAEEVAIMEQLKELKQKGDGDRDKETLKKAIRAQKERAEEKSEEYAEQLHV
QLADKDLVYAEALSTLESWRSRYNQVVKDKGDLELEIIVLNDRVTDLVNQQSLEEKMRDRDSLVERLH
RQTAEYSAFKLENERLKASFAPMEDKLNQAHLEVQQLKASVKNYEGMIDNYKSQVMKTRLEADEVAAQLE
RCDKENMLKDEMNEIEAARRQFQSQLADLQQLPDILKITEAKLAECQDQLQGYERKNIDLTAIISDLR
SRIEHQGDKLEMAREKHQASQKENKQLSQKVDLERKLEATSAQNVEFLQVIKREEAIHQQLRLEEK
RECGSLARQLESAIEDARRQVEQTKEQALSKERAAQSKILDLETQLSRKTELGLRTRDDADRRYQSR
LQDLKDRLEQSESTNRSMQNYVQFLKASYANVFGDAPYTSYLTSSPIRSRPPA

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

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: [BC057001](#), [AAH57001](#)

RefSeq Size: 3976 bp

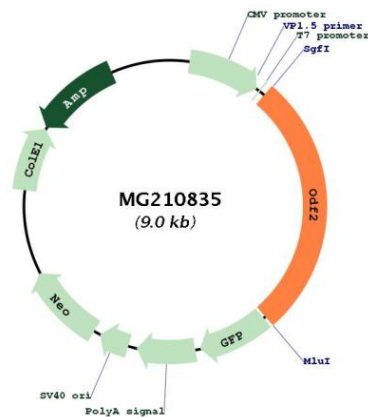
RefSeq ORF: 2477 bp

Locus ID: 18286

Cytogenetics: 2 20.79 cM

Gene Summary: Seems to be a major component of sperm tail outer dense fibers (ODF). ODFs are filamentous structures located on the outside of the axoneme in the midpiece and principal piece of the mammalian sperm tail and may help to maintain the passive elastic structures and elastic recoil of the sperm tail. May have a modulating influence on sperm motility. Functions as a general scaffold protein that is specifically localized at the distal/subdistal appendages of mother centrioles. Component of the centrosome matrix required for the localization of PLK1 and NIN to the centrosomes. Required for the formation and/or maintenance of normal CETN1 assembly (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG210835