

Product datasheet for **RG213282**

DFNB31 (WHRN) (NM_001083885) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DFNB31 (WHRN) (NM_001083885) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DFNB31
Synonyms:	CIP98; DFNB31; PDZD7B; USH2D; WI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG213282 representing NM_001083885
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGAACTCGGCAGGGTTTCTTGCGATCTCACAACAGAAGGAATAACAAGCCAGGATTTACAAGG
 GCCCAGCCGGCTCCAGGTGACCTGAGCAGCCTGGGGAACCAGACACGAGTGCTGCTGGAGGAGCAGGC
 TCGGCACCTGCTGAACGAGCAGGAACACGCCACCATGGCCTACTACCTGGATGAGTACCGTGGTGCCAGC
 GTCTCTGTGGAGGCCCTCGTCATGGCCCTGTTCAAGCTGCTCAACACCCACGCCAAGTTCTCACTCCTCT
 CTGAGGTGAGAGGCACCATTTCCCGCAAGACCTAGAACGCTTCGACCACCTGGTCTGAGGCGTGAGAT
 TGAGTCCATGAAGGCGCGGCAGCCCCAGGCCCGGGCTGGGGACACCTACTCCATGGTCTCTACAGT
 GACACGGGTTCATCCACAGGCAGCCACGGCACCTCCACCACCGTCAGCTCGGCCAGGAACACTCTGGACC
 TGGAGGAACTGGCGAGGCTGTCCAGGGCAATATCAACGCCCTCCAGATGTGTCCGTGGATGATGTCAG
 ATCCACCTCCAGGGGTGTCAAGCTTCAAGCCACTGCCTCGCCACACCTCTGCCCCAAGGCAACGAC
 CTCCCACTAGGCCAGCCAAGGAAGCTGGGGAGAGAGGACCTCCAGCCACCTTCTCCATGCCTTCTGTCT
 CGGGCACTGTCTTCTCGGCTCCACAGAACCAGCCCGCCAGCGGGCACCGCACCCACCCAGGGACCTC
 CTCTGCACAGGACTTGCCCTCTTCCCCCATCTATGCCTCCGTCTCCCCTGCCAACCCAGCTCCAAGAGG
 CCGCTGGACGCCCATCTGGCCCTGGTCAACCAACACCCCATCGGCCCTTCCCACGGGTCCAGTCACCCC
 CGCACCTGAAAAGCCCTCTGCAGAGGCCACAGTGGCTGGGGGTGCCTTCTGCCCCATCACCTCTGG
 CCACCCAGACCAGACAGGCACAAACAGCACTTGTGTCATGGTGGAGGTCCACCGCCCCGACAGCGAGCCA
 GACGTCAATGAAGTGAGGGCGCTGCCCCAGACGCGCACAGCCTCTACGCTCTCCAGCTCTCGGACAGCG
 GGCAGACTCTAAGCGAGGACAGTGGTGTGATGCTGGCGAGGCAGAGGCCAGCGCCAGGCCGAGGAAG
 GCAGTCGGTGTCCACCAAGAGCAGGAGTAGCAAGGAGCTGCCTCGGAACGAGAGGCCACAGATGGGGCC
 AACAAACCGCCTGGAATTCTGGAGCCACGTCCACTCTGGTCCGTGTGAAGAAAAGTGCGGCCACCTGG
 GCATCGCCATCGAGGGTGGCGCCAACACCCGCCAGCCCTGCCTAGGATTGTCACTATTAGAGAGGCGG
 CTCAGCTCACAACGTGGGCAGCTCAAGGTGGGCCACGTATTCTGGAAGTGAATGGGCTGACGCTTCGG
 GGCAAGGAGCACCAGGAGGCCCGCCGATTATCGCCGAGGCCTTCAAGACTAAGGACCGTACTACATTG
 ACTTTCTGGTCACTGAGTCAATGTGATGCTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG213282 representing NM_001083885
 Red=Cloning site Green=Tags(s)

MANSAGFLGDLTTEGINKPGFYKGPAGSQVTLSSLGNQTRVLLLEEQARHLLNEQEATMAYYLDEYRGG
 VSVEALVMALFKLLNTHAKFSLLSEVRGTISPQDLERFDHLVLRREIESMKARQPPGAGDYSMVSYS
 DTGSSTGSHGTSTTVSSARNTLDLEETGEAVQGNINALPDVSVDDVRSTSQGLSSFKPLPRPPPLAQGND
 LPLGQPRKLGREDLQPPSSMPSCSGTVFSAPQNRSPAGTAPTPGTSSAQDLPSPIYASVSPANPSSKR
 PLDAHLALVNQHPIGPFPRVQSPPHLKSPSAEATVAGGCLLPSPSGHPDQGTGNQHFVMEVHRPDSEP
 DVNEVRALPQTRASTLSQLSDSGQTLSEDSGVDAGEAEASAPGRGRQSVSTKSRSSKELPRNERPTDGA
 NKPPGLLEPTSTLVRVKKSAATLGIAIEGGANTRQPLPRIVTIQRGGSAHNCGQLKVGHVILEVNGLT
 LRGKEHREAARIIEAFKTKDRDYIDFLVTEFNVM

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001083885

ORF Size: 1572 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_001083885.2](#), [NP_001077354.2](#)

RefSeq Size: 2915 bp

RefSeq ORF: 1575 bp

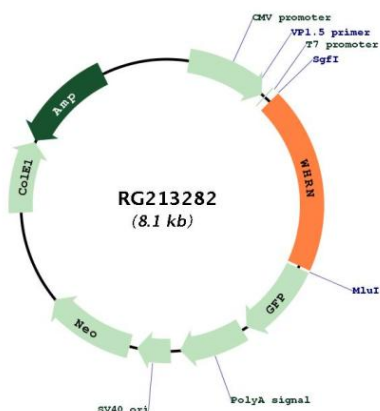
Locus ID: 25861

UniProt ID: [Q9P202](#)

Cytogenetics: 9q32

Gene Summary:

This gene is thought to function in the organization and stabilization of stereocilia elongation and actin cytoskeletal assembly, based on studies of the related mouse gene. Mutations in this gene have been associated with autosomal recessive non-syndromic deafness and Usher Syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2016]

Product images:


Circular map for RG213282