

## Product datasheet for **MG224875**

### Whrn (NM\_001008797) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Whrn (NM_001008797) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Whrn
Synonyms:	1110035G07Rik; AW122018; AW742671; bM340H1.8; C430046P22Rik; mKIAA1526; whirlinNT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG224875 representing NM\_001008797  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGACCACATGGTGCCATCGTCCCAGGGTTAGGTGGAGCGGTTCTGTGTGTGGAGACCATCAACACA  
 ACGCTAGAAGCCACAGCCTCCCCCGCAGCTAGACTCCTCTGGCCTGTGTCTTCTGTTTTTCAGCCAGG  
 ATTTTACAAGGGCCAGCCGGCTCCCAGGTGACCTGAGCAGCCTGGGAATCAGACTCGTGCAGTCTG  
 GACGACCAAGCCAGGCACCTGCTGACAGAGCAGGAGCGGCCACCATGATGTACTACCTGGCCAGTACC  
 GTGGTGGCACCATCTCTGTGGAGGCCATGGTCATGGCACTGTTTGTGTTGCTCAACACACACGCCAAGTT  
 CTCACTCTGTCTGAGGTGAGAAGCATCATCTACCCCAAGACCTGGACCGCTTTGACCACCTGGTGTG  
 AGGCGCGAGATCGAGTCTATGAAGGCGAGGCAGCCCCCGGCCCGGGTGGAGACACGTATTCATGG  
 TTTCTACAGCGACACAGGCTCATCCACAGGCAGCCACGGCACCTCTACAACCGTCAGCTCGGCCAGGAA  
 TACATTAGACCTGGAAGGAACCGGTGAGACCACCCAGGGCAGCACCACCGCTCTCCCGGATGTGTCTGTG  
 GATGATGTCAAATCCCCCTCAGAAGATCTGCCTGGTATCAAGCCACCTCCTCCCCACCACCCCTGGCTC  
 AAGGTCATGACCGCTTGCTTGGCCAGCCACGGAAGCCAGGGAGGGAGACCCCGCACCTCTGTCTTCTGC  
 TGCCCACTCAGGCATTGTCTTCTCAGCACCACGGAACCGCAGCCCGCCGCGCAGGGACTGCTCCCACTCCG  
 GGACCTTCTCAGCACAGGACTCTCCCTCCTCCCCATTTATGCCTCCATCTCCCATGCCAACCCAGTT  
 CCAGAAAGCCGCTGGACACCCACCTGGCCCTGGTTAACCAGCACCCCATCGGCCCTTCCCTCGAGTCCA  
 GTCCCCACCTCACCTGAAGAGCCCTCTGCAGAGACCCAGGAGCTGGGGCTGCCTTCCACCACCATCA  
 CCCTCTGAACACCTGACGCCGTGGTGCAAACCAGCACCTTTGTCTGGTGGAGGTGCACCGTCCGGACA  
 GTGAGCTGATGTAATGAAGTGCGGGCTCTGCCCCAGACTCGCACAGCCTCCACACTCTCAGCTCTC  
 AGACAGTGGGCAGACCCTGAGCGAGGACAGTGGCGTGGATGCCGGGAGACGGAGGCCAGCACCTCAGGC  
 CGAGGCAGACAGACAGCATCCGCTAAGAACAAGAATGGCAAGGAGCAGCCCGGACGGAGAGGACCGCGG  
 AGGGTGCACAAACCTCCCGCCCTGCTGGAGCCAACGTCCACCCTGGTCCGTGTGAGGAAAAGTGCAGC  
 CACTGGGCATCGCCATTGAGGCGGTGCCAACACAGCCAGCCTCTGCCCAGGATCGTCACAATTGAG  
 CGAGGAGGTTCTGCCATAACTGTGGACAGCTCAAGGTGGGCCACGTAATTCTGGAAGTGAATGGGCAGA  
 CACTTCGGGGTAAGGAGCACAAGGAGGCCGCCGAATCATCGCTGAGGCCTCAAGACCAAGGAGAGAGA  
 CTACATCGACTTCTGGTCACTGAGTTCAACGTGATGCTC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG224875 representing NM\_001008797  
 Red=Cloning site Green=Tags(s)

MTTWCHRPRVRWVGSCVCGDHQHNARSHSLPRSLDSSGLCPSVFPQGFYKGPAGSQVTLSSLGNQTRALL  
 DDQARHLLTEQERATMMYYLAQYRGGTISVEAMVMALFELLNTHAKFSLLSEVRSIISPQDLDRFDHLVL  
 RREIESMKARQPPGPGVGDYSMVSYSDTGSSTGSHGTSTTVSSARNTLDLEGTETTQGSTNALPDVSV  
 DDVKSPSEDLPGIKPPPPPPPLAQGHDRLLGQPRKPGREDPAPLSSAAHSGIVFSAPRNRSPPPGTATP  
 GPSSAQDSSPIYASISHANPSSRKPLDTHLALVNQHPIGFPFRVQSPPHLKSPPAETPGAGACLPPPS  
 PSEHPDAVGANQHFVLEVHRPDPSEPDVNEVRALPQTRTASTLSQLSDSGQTLSEDSGVDAGETEASTSG  
 RGRQTASAKNKGKEQPRTERTAEGANKPPGLEPTSTLVRVRKSAATLGIAIEGGANTRQPLPRIVTIQ  
 RGGSAHNCGQLKVGHVILEVNGQTLRGKEHKEAARIIEAFKTKERDYIDFLVTEFNVML

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001008797

**ORF Size:** 1650 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\\_001008797.1](#), [NP\\_001008797.1](#)

**RefSeq Size:** 2537 bp

**RefSeq ORF:** 1653 bp

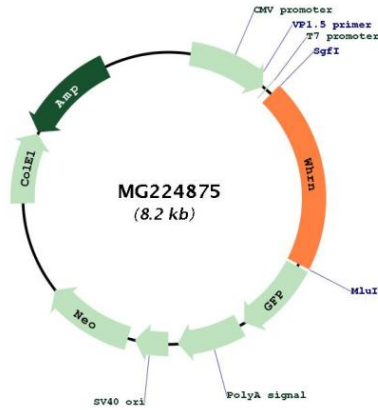
**Locus ID:** 73750

**Cytogenetics:** 4 33.97 cM

**Gene Summary:**

This gene encodes a protein required for elongation and actin polymerization in the hair cell stereocilia. The encoded protein is localized to the cytoplasm and co-localizes with the growing end of actin filaments. Mutations in this gene have been linked to deafness. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2013]

**Product images:**



Circular map for MG224875