

## Product datasheet for **MG223640**

### Whrn (NM\_001008798) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Whrn (NM_001008798) 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)
ORF Nucleotide Sequence:	>MG223640 representing NM_001008798 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGAATACATTAGACCTGGAAGGAACCGGTGAGACCACCCAGGGCAGCACCAACGCTCTCCCGGATG  
TGTCTGTGGATGATGTCAAATCCCCCTCAGAAGATCTGCCTGGTATCAAGCCACCTCCTCCCCACCACC  
CCTGGCTCAAGGTCATGACCGCTTGCTTGCCAGCCACGGAAGCCAGGGAGGAGACCCCGCACCTCTG  
TCTTCTGCTGCCACTCAGGCATTGTCTTCTCAGCACCACGGAACCGCAGCCCGCCAGGACTGCTC  
CCACTCCGGGACCTTCTCAGCACAGGACTCTCCCTCCTCCCCATTTATGCCTCCATCTCCCATGCCAA  
CCCCAGTTCCAGAAAGCCGCTGGACACCACCTGGCCCTGGTTAACCAGCACCCCATCGGCCCTTCCCT  
CGAGTCCAGTCCCCACCTCACCTGAAGAGCCCTCCTGCAGAGACCCAGGAGCTGGGGCCTGCCTCCAC  
CACCATCACCTCTGAACACCCTGACGCGTGGGTGCAAACCAGCACTTTGTTCTGGTGGAGGTGCACCG  
TCCGGACAGTGAGCCTGATGTGAATGAAGTGGGGCTCTGCCAGACTCGCACAGCCTCCACACTCTCT  
CAGCTCTCAGACAGTGGCAGACCCTGAGCGAGGACAGTGGCGTGGATGCCGGGAGACGGAGGCCAGCA  
CCTCAGGCCGAGGAGACAGACAGCATCCGCTAAGAACAAGAATGGCAAGGAGCAGCCCCGGACGGAGAG  
GACCGCGGAGGGTGCCAACAACCTCCCGGCTGCTGGAGCCAACGTCCACCCTGGTCCGTGTGAGGAAA  
AGTGCACCCACTGGGCATCGCCATTGAGGGCGGTGCCAACACACGCCAGCCTCGCCAGGATCGTCA  
CAATTCAGCGAGGAGTTCTGCCATAACTGTGGACAGCTCAAGGTGGCCACGTAATTCTGGAAGTGAA  
TGGGCAGACACTTCGGGTAAGGAGCACAGGAGGCCGCCGAATCATCGCTGAGGCCTCAAGACCAAG  
GAGAGAGACTACATCGACTTTCTGGTCACTGAGTTCAACGTGATGCTC

**ACCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG223640 representing NM\_001008798  
 Red=Cloning site Green=Tags(s)

MENTLDLEGTGETTQGSTNALPDVSVDDVKSPSEDLPGIKPPPPPPPLAQGHDRLLGQPRKPGREDPAPL  
 SSAAHSGIVFSAPRNRSPPPGTAPTGPSSAQDSPSSPIYASISHANPSSRKPLDTHLALVNQHPIGFPF  
 RVQSPPHLKSPPAETPGAGACLPPSPSEHPDAVGANQHFVLEVHRPDEPDVNEVRALPQTRTASTLS  
 QLSDSGQTLSEDSGVDAGETEASTSGRGRQTASAKNKGKEQPRTERTAEGANKPPGLEPTSTLVRVRK  
 SAATLGIIEGGANTRQPLPRIVTIQRGSAHNCGQLKVGHVILEVNGQTLRGKEHKEAARIIEAFKTK  
 ERDYIDFLVTEFNVML

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001008798

**ORF Size:** 1098 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\\_001008798.1](#), [NP\\_001008798.1](#)

**RefSeq Size:** 2869 bp

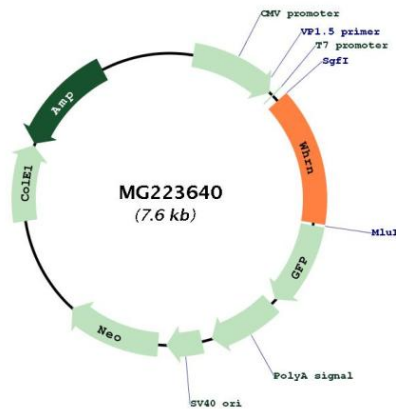
**RefSeq ORF:** 1101 bp

**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 MG223640