

## Product datasheet for **MR224875**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Whrn (NM_001008797) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Whrn
Synonyms:	1110035G07Rik; AW122018; AW742671; bM340H1.8; C430046P22Rik; mKIAA1526; whirlinNT1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>MR224875 representing NM\_001008797  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACCACATGGTGCCATCGTCCCAGGGTTAGGTGGAGCGGTTCTGTGTGTGGAGACCATCAACACA  
 ACGCTAGAAGCCACAGCCTCCCCCGCAGCTAGACTCCTCTGGCCTGTGTCTTCTGTTTTTCAGCCAGG  
 ATTTTACAAGGGCCAGCCGGCTCCCAGGTGACCTGAGCAGCCTGGGAATCAGACTCGTGCCTGCTG  
 GACGACCAAGCCAGGCACCTGCTGACAGAGCAGGAGCGGCCACCATGATGTACTACCTGGCCAGTACC  
 GTGGTGGCACCATCTCTGTGGAGGCCATGGTCATGGCACTGTTTGAGTTGCTCAACACACACGCCAAGTT  
 CTCCTCTGTCTGAGGTGAGAAGCATCATCTACCCCAAGACCTGGACCGCTTTGACCCTGGTGTCTG  
 AGGCGGAGATCGAGTCTATGAAGGCGAGGCAGCCCCCGGCCGGGTTGGAGACACGTATTCATGG  
 TTTCTACAGCGACACAGGCTCATCCACAGGCAGCCACGGCACCTCTACAACCGTCAGCTCGGCCAGGAA  
 TACATTAGACCTGGAAGGAACCGGTGAGACCACCCAGGGCAGCACCAACGCTCTCCCGGATGTGTCTGTG  
 GATGATGTCAAATCCCCCTCAGAAGATCTGCCTGGTATCAAGCCACCTCCTCCCCACCACCCCTGGCTC  
 AAGGTCATGACCGCTTGCTTGGCCAGCCACGGAAGCCAGGGAGGAGACCCCGCACCTCTGTCTTCTGC  
 TGCCCACTCAGGCATTGTCTTCTCAGCACCACGGAACCGCAGCCCGCCGCGCAGGGACTGCTCCCACTCCG  
 GGACCTTCTCAGCACAGGACTCTCCCTCCTCCCCATTTATGCCTCCATCTCCCATGCCAACCCAGTT  
 CCAGAAAGCCGCTGGACACCCACCTGGCCCTGGTTAACCAGCACCCCATCGGCCCTTCCCTCGAGTCCA  
 GTCCCCACCTCACCTGAAGAGCCCTCTGCAGAGACCCAGGAGCTGGGGCTGCCTTCCACCACCATCA  
 CCCTCTGAACACCCTGACGCCGTGGTGCAAAACCAGCACCTTTGTTCTGGTGGAGGTGCACCGTCCGGACA  
 GTGAGCCTGATGTAATGAAGTGGGGCTCTGCCCCAGACTCGCACAGCCTCCACACTCTCTCAGCTCTC  
 AGACAGTGGGCAGACCCTGAGCGAGGACAGTGGCGTGGATGCCGGGAGACGGAGGCCAGCACCTCAGGC  
 CGAGGCAGACAGACAGCATCCGCTAAGAACAAGAATGGCAAGGAGCAGCCCGGACGGAGAGGACCGCGG  
 AGGGTGCCAAACAACCTCCCGCCCTGCTGGAGCCAACGTCCACCCTGGTCCGTGTGAGGAAAAGTGCAGC  
 CACTGCGCATCGCCATTGAGGCGGTGCCAACACAGCCAGCCTCTGCCAGGATCGTCACAATTCAG  
 CGAGGAGGTTCTGCCATAACTGTGACAGCTCAAGGTGGGCCACGTAATTCTGGAAGTGAATGGGCAGA  
 CACTTCGGGGTAAGGAGCACAAGGAGGCCCGCCGAATCATCGCTGAGGCCTCAAGACCAAGGAGAGAGA  
 CTACATCGACTTCTGGTCACTGAGTTCAACGTGATGCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR224875 representing NM\_001008797  
 Red=Cloning site Green=Tags(s)

MTTWCHRPRVRWSGSCVCGDQHNRSHSLPRSLDSSGLCPVSFQPGFYKGPAGSQVTLSSLGNQTRALL  
 DDQARHLLTEQERATMMYYLAQYRGGTISVEAMVMALFELLNTHAKFSLLESEVRSIISPQDLDRFDHLVL  
 RREIESMKARQPPGPGVGDYISMVSYSDTGSSTGSHGTSTTVSSARNTLDLEGTGETTQGSTNALPDVSV  
 DDVKSPSEDLPGIKPPPPPPPLAQGHDRLLGQPRKPGREDPAPLSSAAHSGIVFSAPRNRSPPPGTAPT  
 GPSSAQDSPSPPIYASISHANPSSRKPLDTHLALVNQHPIGFPFRVQSPPHLKSPPAETPGAGACLPPPS  
 PSEHPDAVGANQHFVLEVHRPDPEDVNEVRALPQTRTASTLSQLSDSGQTLSEDSGVDAGETEASTSG  
 RGRQTASAKNKGKEQPRTERTAEGANKPPGLEPTSTLVRVRKSAATLGIIEGGANTRQPLPRIVTIQ  
 RGGSAHNCGQLKVGHVILEVNGQTLRGKEHKEAARIIEAFKTKERDYIDFLVTEFNVML

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

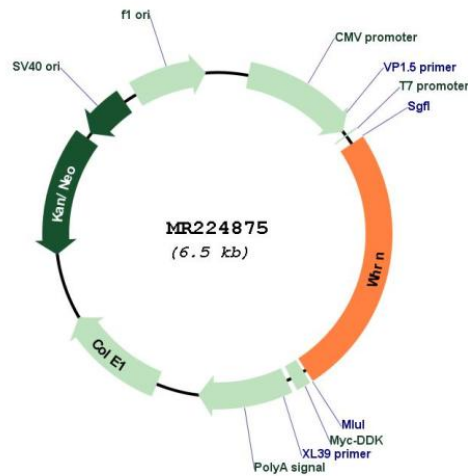
Cloning Scheme:

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



<b>ACCN:</b>	NM_001008797
<b>ORF Size:</b>	1650 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001008797.1</a> , <a href="#">NP_001008797.1</a>
<b>RefSeq Size:</b>	2537 bp
<b>RefSeq ORF:</b>	1653 bp
<b>Locus ID:</b>	73750
<b>Cytogenetics:</b>	4 33.97 cM
<b>MW:</b>	93 kDa
<b>Gene Summary:</b>	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]