

## Product datasheet for **MC222534**

### Whrn (NM\_028640) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Whrn (NM_028640) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Whrn
Synonyms:	1110035G07Rik; AW122018; AW742671; C430046P22Rik; Dfnb3; Dfnb31; Ush2; Ush2d; w; wi
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC222534 representing NM\_028640  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAACGCACAGCTGGACGGCCTGTGCGTGAGCTCGTCCACCGGCTCGTGGGCTCGGCGGCGCGG  
 CGGCGGGCGGCGGGGGCGGGGTTGCGGCTGCTGTCTGCCAACGTGCGCCAGCTGCACCAAGCGCT  
 CACGGCGCTGCTGAGCGAGCCCAGCGGGAGCAGTTCACTCACTGCCTCAACGCGTACCACGCGGCCCGC  
 AACGTCTTCGACCTGGTGCACCCCTGCGCGTCTGCTGGACAGCCCGTCAAGCGGCGTCTGCTGCCCA  
 TGCTGCGTCTGGTCATCCCGCGCTCCGACCAGCTGCTCTTCGACCAGTACACGGCCGAGGCGCTTACTT  
 GCCAGCCACCACCCCTACAGGCAGCCCGCTGGGCGCTCCCGACGCGCGGGGCCCGGGAGGTGCGA  
 CTCGTGAGCCTGCGGCGGCCAAGGCCACGAGGGCTTGGGCTTCAAGTCCGCGGGGCTCGGAACACG  
 GCGTGGGCATCTACGTGTCTCTAGTGGAGCCGGCTCCCTGGCAGAGAAGGAAGGTTGCGGGTGGGGA  
 CCAGATTCTGCGCGTCAACGATAAATCTCTAGCCCGGGTACCCACGCGGAGGCTGTCAAGGCTCTCAA  
 GGCTCCAAGAAGCTGGTGTCTGTACTACTAGCTGGGCGTATCCCAGGGGGCTATGTGACCAACCACA  
 TCTACACCTGGGTGGACCCACAGGGTCAAGCAGTCCCTCCCTCCAGCTGCCCCAGCCCATGGCAG  
 CACCCTGAGACAGCGTGAAGTACCGAAGGAGTACCCTCCACCTCCTGCAGAGTGGAGATGAGAAAAAG  
 GTGAACCTGGTGTGGGGGACGGCCGGTCTTGGGCTCACGATCCGAGGTGGAGCAGAGTACGGCCTTG  
 GCATTTACATCACTGGTGTGGACCCAGGCTCTGAAGCAGAGAGCAGCGGCTCAAGGTTGGAGACCAGAT  
 TCTGGAGGTGAATGGGCGGAGCTTTCTCAACATCCTGCATGATGAGGCAGTGAAGTGTCAAGTCACTCC  
 CGGCACCTCATCTGACGGTGAAGGACGTGGAAGGCTGCCACGCACGTACCACCGTGGACAGACCA  
 AGTGGATCGCCAGTTCGCGGATCGGGAAAGCGTCCGCAACTCAGCAGGGTTTCCAGGGACACACAGA  
 AGAAGGACAAGCAAGCCAGGATTTTACAAGGGCCAGCCGGCTCCAGGTGACCTGAGCAGCCTGGGG  
 AATCAGACTCGTGCAGTGTGGACGACCAAGCCAGGCACCTGCTGACAGAGCAGGAGCGGCCACCATGA  
 TGTACTACCTGGCCAGTACCGTGGTGGCACCATCTGTGTGGAGGCCATGGTCATGGCACTGTTTGA  
 GCTCAACACACACGCCAAGTTCTCACTCCTGTCTGAGGTGAGAAGCATCATCTCACCCCAAGACCTGGAC  
 CGCTTTGACCACCTGGTGTGAGGCGGAGATCGAGTCTATGAAGGCGAGGCAGCCCCCGGCCCGGG  
 TTGGAGACACGTATCCATGGTTTCTACAGCGACACAGGCTCATCCACAGGCAGCCACGGCACCTTAC  
 AACCGTACGCTCGCCAGGAATACATTAGACCTGGAAGGAACCGGTGAGACCACCCAGGGCAGCACAAC  
 GCTCTCCCGATGTGTCTGTGGATGATGCAATCCCCCTCAGAAGATCTGCCTGGTATCAAGCCACCTC  
 TCCCCCACCACCCCTGGCTCAAGGTGATGACCCTTGTCTGGCCAGCCACGGAAGCCAGGGAGGGAGGA  
 CCCCACCTCTGTCTTCTGCTGCCACTCAGGCATTGTCTTCTCAGCACCACGGAACCCGAGCCCGCC  
 CCAGGGACTGCTCCCACTCCGGGACCTTCTCAGCACAGGACTCTCCCTCCTCCCCATTTATGCCTCCA  
 TCTCCATGCCAACCCAGTTCAGAAAGCCGCTGGACACCCACCTGGCCCTGGTTAACCAGCACCCAT  
 CGGCCCTTCCCTCGAGTCCAGTCCCACTCACCTGAAGAGCCCTCTGCAGAGACCCAGGAGCTGGG  
 GCCTGCCTTCCACCACATCACCTCTGAACACCCTGACGCCGTGGGTGCAAACCAGCACTTTGTTCTGG  
 TGGAGGTGCACCGTCCGGACAGTGAAGCTGATGTAATGAAGTGCAGGCTTCCAGCAGACTCGCACAGC  
 CTCACACTCTCTCAGCTCTCAGACAGTGGGAGACCCCTGAGCGAGGACAGTGGCGTGGATGCCGGGAG  
 ACGGAGGCCAGCACCTCAGGCCAGGCAGACAGACAGCATCCGCTAAGAACAAGAATGGCAAGGAGCAGC  
 CCCGGACGAGAGGACCGGAGGGTGCCAACAACTCCCGGCTGCTGGAGCCAACGTCCACCCTGGT  
 CCGTGTGAGGAAAAGTGCAGCCACACTGGGCATCGCCATTGAGGGCGGTGCCAACACAGCCAGCCTCTG  
 CCCAGGATCGTACAATTGAGCGAGGAGTTTCTGCCATAACTGTGGACAGCTCAAGGTGGGCCACGTAA  
 TTCTGGAAGTGAATGGGAGACACTTCGGGTAAGGAGACAAGGAGGCCCGCAATCATCGTGGAGGC  
 CTTCAAGACCAAGGAGAGAGACTACATCGACTTCTGGTCACTGAGTTCAACGTGATGCT**TAG**

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-RsrII  
**ACCN:** NM\_028640

<b>Insert Size:</b>	2724 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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>	<u><a href="#">NM_028640.2</a></u> , <u><a href="#">NP_082916.1</a></u>
<b>RefSeq Size:</b>	4056 bp
<b>RefSeq ORF:</b>	2724 bp
<b>Locus ID:</b>	73750
<b>UniProt ID:</b>	<u><a href="#">Q80VW5</a></u>
<b>Cytogenetics:</b>	4 33.97 cM
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) lacks an in-frame exon in the 3' coding region, compared to variant 2. The encoded isoform (1) is shorter than isoform 2.</p>