

## Product datasheet for **MC223992**

### Wdr11 (NM\_172255) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Wdr11 (NM\_172255) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Wdr11  
**Synonyms:** 2900055P10Rik; AW489876; Brwd2; mKIAA1351  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC223992 representing NM\_172255  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGTTACCCTACACCGTAACTTCAAGGTGTCAGCGCGCACCCCTACCGGGGCTCTCAACCGCACAACA  
AGGCGCGGGTGGACTGGGCTGGCAAGGTTAATTGCATATGGATGCCATTCCTGGTGGTGTAGTATCGA  
TTCCAATACTGCCAACTCTACAAGTTCTAGAAAAACATAAAGCTGATATTGTTAAGGTCAGGTGGCC  
AGGGAGAACTATACCATAACATCGGCTCTCCATACTGCCTGCGCTTGGCTTCTGCGGATGTCACCTGGGA  
AGATCATTGTCTGGGATGTAGCAGCCGGAGTAGCCAGTGTGAGATCCAAGAGCAGTGAAGCCCATCCA  
AGATGTGCAGTGGCTGTGGAATCAGGACGCTTCCCGAGACTTGCTGCTCGCTATCCACCCGCTAATTAC  
ATCGTGTGTGGAATGCAGACACAGGCACCAAGCTGTGGAAGAAGAGCTACGCAGATAACATCCTTTCTT  
TTTCTTTGACCTTTTGATCCTTCACATTTAACTTTACTCACCAGCGAGGGCATCGTTTTTCATCTCAGA  
CTTCTCTCCATCCAAGCCTCCCTCCGGCCCTGGGAAGAAAGTGTACATCTCCAGCCCACTCCAGCCCA  
GCTCATAACAAGCTGGCCGACGCCACGGGAGCCAAGAAGGCTCTTAATAAAGTAAAGATTTAATCACTC  
AGGAGAAACCGAGTGTGATTTTGTAGCTCTCAATGACTGCCTCCAGTTAGCCTATCTGCCTTCAAAAAG  
GAATCACATGCTGTTGCTTACCCTCGGGAGATTTAATCCTTGACCTGGAAGTGAATCAAACAGTTGGT  
GTGATTGCAATCGAGAGAACAGGCGTCCCTTTCTGCAGGTAATACCATGCTCTCAGCGAGATGGCTTGT  
TTTGCCTACATGAAAATGGCTGCATAACCTTACGTGTCCGGAGGCTTTATAACAGCATCTGTACTACATC  
AAATGATGAACCAGATCTAGATCCTGTCCAGGAGCTTACCTATGACTTGAGAAGCCAGTGTGATGCAATC  
AGGGTGACGAAAACGTCCGTCCTTTCAGTATGGTGTGCTGTCTGTTAATGAGAATGCAGCTGCCCTCA  
TAGTAAGCGACGGCAGAGTCATGATATGGGAACCAAGTCTGCTGTGTCAGTCAAATGCACGGAACAG  
TTCCGGTGTGCTCCTTTATACTCGCCAGTGTCTTCTGTGGGATTCTGGAGGAGTGTACAGAATAAA  
CTCCAGACCTTTCCCTAGATAATATGATCGGGCAGAGTGAATGCTGGGAAGAACACCCCAAAGGCT  
CCATTCTGCAGGAAGTGACCTCAAGTTCTGTGACGGGACTGCTCTCAGGACTCCCTTCCCTCAGTT  
TGCCATCCGAATGTGCCACCACTGACCACAAAAACATTAAGATGTACCAGCCACTCCTTGTGTTGGT  
ACGAGTAACGGTCTGTCTGCTGTACCACCTCACCAGTGGCCTGCTGCACAAGGAGCTCAGTGTCCACT



CGTGTGAAGTCAAGGGTATTGAATGGACAAGCTTGACCAGTTTCCTTTCTTTTGCTGCTTCGACCCAAA  
CAACATGGGGTTAGTAAGAAATGAACCTCAGCTGGTTGATCTCCCAACAGGGAGGAGCACTGCTTTCCGT  
GGTGACCGGGCAATGACGAATCACCCATTGAAATGATCAAAGTGTCTCATCTGAAACAGTATTTGGCAG  
TTGTTTTCAAAGATAAGCCCCTGGAATTATGGGATATTAGAACTTGCACTCTTCTAGAGAAATGTCTAA  
AAGTTCCCTGCTATAACTGCATTGGAGTGGTCACCATCTCACAACTGAAGAGCCTGAGAAAGAAGCAG  
CTTGCCACCCGGGAGGCCATGGCCCGCCAGACTGTGGTCTCCGATGCAGAGCTGGGTGCTGTTGAATCAT  
CTGTGATCAGTTTATTACAGGAGGCAGAGAGTAAGGCTGAAGCTCAGTCAGAACATCTGCTCGGGAGCA  
TTTTGTGTTTACTGACAATGATGGCCAAGTTTATCATCTCACTGTTGAAGGAAATCTGTGAAAGACAGT  
GCTCGGATTCCACCAGATGGTAGCATGGGCAGTATTACCTGCATCGCTTGAAGGGGGATACATTAGTGC  
TTGGAGATATGGATGGAAATTTAAACTTCTGGGATTTGAAAGCCAGAGTATCCAGAGGAATACCCACACA  
TAGAAGTTGGGTGAGGAAGATTCGCTTTGCCCGGCAAGGGAAACCAGAAGCTAATAGCAATGTATAAT  
GATGGTGTGAAGTGTGGGATACTAAAGAGTTTCCAGATGGTGAGCAGTTTAAAGAGTGAAGAAATGTAA  
CCTTCCGATTTGGATGTGGACTGGTGCACATCAGATAAGGTGATCTTGGCATCTGATGACGGCTGCAT  
CAGAGTCTGGAGATGTCAATGAAGTCTACGTGTTTCCAGATGGATGAGCAGGAGTTAGTAGAGCCTGTG  
TGGTGCCCGTACCTCCTGTTCCGAGGGCTGCCCTTGCTTTGAAAGCCTTCTACTGCATCAGCCTTGGA  
ATGGGCGATATTCGTTGGACATTTCTCACATTGATTATCCAGAAAATGAAGAAATAAGACTCTCCTTCA  
AGAACAGTTGCATGCATTGTCTAACGACATAAAGAACTCCTGCTTGATCCCGACTTCTCTCTTGCAG  
AGGTGCCTGCTCGTGTCCAGGCTGTACGGCGATGAATCGGAGCTGCATCTTGGACAGTGGCGGCCACT  
ACCTGCACAGCTTGTCCCAGGCCAAGTCTGGGGACACAGTGGTAACCAAGGAAGGTGCTCCTAAGGACAG  
GCTGAGCAACCCATTGGACATCTGCTACGATGTGCTCTGTGAGAACACCTACTTCCAGAAATTTAGCTA  
GAAAGAGTTAATCTACAGGAAGTAAACGGTCACTTATGATCACACGAGAAAGTGCACAGACCAGCTCC  
TGCTGTAGGCCAGACAGACAGAGCTGTGCAGCTGCTGTTGAAACAAGTGCAGATAACCCAGCACTACTA  
CTGGCAGTCTCTGAAAGCTTGCTTGGTACCAGTGTACCTCTTCCAGCCCTTCTCAGAGCACAATTAAG  
CTGGTAGCAACCAATATGATCGCCAATGGCAAGCTGGCAGAGGGTGTTCAGTTACTCTGCTTGTAGACA  
AGGCTGCGGACGCCTGTGCTACCTGCAGACGTATGGCGAGTGAATCGGCGGCATGGCTTGCAAAGGT  
TCGGTTAAATTCTGAAGAATGTGCAGATGTTCTGAAGCGGTGGTTGACCACCTTTGTTCTCCACAAGTC  
AACCAGAAGTCCAAGGCCCTCCTGGTCTCCTCTCTGCGTTGCTTTGTGAGCGTGGCAGAGACGCTTC  
ACAGCATGAGATACTTCGATAGAGCTGCCTTGTGTTGGAAGCCTGTCTCAAGTACGGTGCATTTGAAGT  
CAGTGAGGACACAGAGAAGCTCATTGCTGCCATCTACGCAGACTATGCCCGGAGCCTGAAGAGCCTCGGC  
TTTAGACAGGGAGCAGTGCCTTTGCTTCAAAGCTGGAGCGGCTGGCAGAGATTTGTTGAATGAGCTTG  
GGTCCACCAAGGAAGAGCTAACGAAAGTTGA

ACGGCTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

SgfI-MluI

**ACCN:**

NM\_172255

**Insert Size:**

3672 bp

**OTI Disclaimer:**

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).

**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\\_172255.3](#), [NP\\_758459.2](#)

**RefSeq Size:** 4566 bp

**RefSeq ORF:** 3672 bp

**Locus ID:** 207425

**UniProt ID:** [Q8K1X1](#)

**Cytogenetics:** 7 F3

**Gene Summary:** Involved in the Hedgehog (Hh) signaling pathway, is essential for normal ciliogenesis (PubMed:29263200). Regulates the proteolytic processing of GLI3 and cooperates with the transcription factor EMX1 in the induction of downstream Hh pathway gene expression and gonadotropin-releasing hormone production (PubMed:29263200). WDR11 complex facilitates the tethering of Adaptor protein-1 complex (AP-1)-derived vesicles. WDR11 complex acts together with TBC1D23 to facilitate the golgin-mediated capture of vesicles generated using AP-1 (By similarity).[UniProtKB/Swiss-Prot Function]