

## Product datasheet for **MG226133**

### Wdr19 (NM\_153391) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Wdr19 (NM_153391) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Wdr19
Synonyms:	C330027H04Rik; D330023L08Rik; DYF2; lft144; mKIAA1638; PWDMP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226133 representing NM_153391 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGCGTGTTTTCTCCCTGCTAGAAAAGTCTTGGCTTGGTGTCCGATACAATTTGCCTGGCAAAAAT  
CATCAGGAAACTACCTTGCAGTAACAGGAGCTGATTATATTGTTAAAATCTTTGATCGCCATGGCCAAA  
AAGAAGTGAATTAGCTTGCCTGGCAACTGTGTTACCATGGATTGGGATAAAGATGGCGATATCCTGGCA  
GTGATTGCTGAGAAGTCTAGTTGATTTATCTATGGGATGCCAACACAAAATAAACCCAGCCAGCTGGACA  
ATGGCATGAGGGATCAAATGTCTTCTCTTTGGTCAAAAATTGGAAGTTTCTGGCTGTTGGGACCAT  
TAAAGGAAATTTGCTCATTATAATCATCAGACATCTCGAAAGATTCCTGTTCTTGGAAAACATACTAAG  
AAAATCACATGTGGATGTTGGAATTCAGAGAATCTCCTTGCTTTGGGAGGTGAAGATAAAATGATTACAG  
TTAGTAACCAGGAAGGCGACACAATAAGACAGACCCCAAGTAAATCAGAGCCAAGCGACATCAAGTTCTC  
CATGAGCAAGACAGATGAGCGAATTTCTTCTGCTGAGAACACAATAAGTGCAGTGGTTGGCAAGAAAATG  
CTGTTTCTTTTCATCTGAATGAACCAGATAACCCGGTGGATCTGGAGTTTCAGCAAGCCTATGGCAACA  
TTGCTGCTATAGTTGGTATGGAGATGGCTACATCATGATTGGCTTTTCCCGAGGGACGTTTTTGGCTAT  
TTCTACTCACTTCCGGAAGTTGGGCAAGAGATATTTAAGGCTCGTGACCATAAGGATAATCTAACCAGT  
GTGGCCTTGTACAGACTCTGAACAAAGCTGCCACATGTGGCGATAACTGCATAAAAAATCCATGATCTGA  
CAGAAATTGAGAGACATGTATGCTATAATTAATCTGGATGATGAGAATAAAGGGCTGGTACCTTATCCTG  
GACTGATGATGGTCAGTTGCTAGCACTGTCTACCAAAGAGGCTCACTGCATGTCTTCTGACCAAGTTG  
CCCATCTCGGGGACGCTGTACACAAGGATTGCGTATCTCACCTCCCTCCTTGAGGTACCCGTGGCCA  
ACCTCATTGAAGGAGAGCCGCAATCACAGTCTCTGTGGATGTGGAACCCACCTTTGTCGAGTAGGGCT  
CTATCATCTGGCCGTGGGATGAATAACCCGGCTTGGTTTTATGCTTGGTGAATGTTGTCAAAAAG  
TTAAAAGATGTGGAATATCTGGGAACCGTGGCCAGCATCTGCCTTCATTCTGACTACGCCGCTGCACTCT  
TTGAAGGCAAAAATCCAGTTACATTTGATAGAAAATGAAATGTTGGACGCTCAGGAAGAGCGTGAGACTCG  
GCTCTTCCAGCAGTGGATGATAAGTGCCGGATTTTATGCCACGCCCTAACTAGTATTCTCATCTAC



[View online »](#)

GGAAGTACTGGCATCATTACTATTTCTTCATCGAAGACTGGCAGTTCGTTAATGATTACCGGCATC  
CTGTTGGTGTGAAGAAGCTATTTCTGATCCAAATGGAACCAGATTGGTTTTATTGATGAGAAGAGTGA  
TGGATTTGTTACTGTCTGTTAATGATGCGACCTATGAGATTCCAGACTTCTACCAACCATTAAAGGT  
GTTCTTTGGGAAAAGTGGCCGATGGACAAAGGTGTCTTTATCGCCTATGATGATGACAAGGTGTACAT  
ATGCGTTTCACAAGGACACCATCCAAGGATCCAAGGTTATTTGGCTGGCAGCACCAAACCTCCCTTCTC  
CCATAAGCCTTTGCTGTTATAACAATGGAGAAGTACCTGCCAGACACAGAGTGGGAAAATCAACTCCATC  
TACCTCAGCACCCACAGCTTCCCTGGCAGCATGAAAGACACGGAGCCTACTGACCTGAGGCAAATGCTGA  
CGCAGACCCTGCTGCTCAAGCGGTTTTCTGATGCTGGGATATATGCAAGATGCTAAATGACCCGACTTC  
GTGGAGTGAGCTGGCAAAGCCTGTCTGCATCACATGGAGGTGGAGTTTGTCTATCCGAGTGTCCCGGACA  
ATGGGGGATGTTGGCACAGTGTGTCGTTGGAACAAATAAAGGGAATCGAGGACTACAATCTTTGGCAG  
GACATCTCGCATGTTTACTAATGACTTCAACCTGGCCAGGACCTGTACCTGGCATCCAATGCCTGT  
GGCAGCCCTGGAGATGCGGCGGGACCTGCAGCACTGGGACAGCGCTCTGCAGCTGGCAAAGCGCCTGGCC  
CCGGACCAGATACCCTTCATATCCAAGAGTACGCCATCCAGCTGGAGTTCACAGGCGATTATGTAACG  
CTCTGGCTCATTACGAGAAGGCATCACCGGTGATAATAAGGAACACGACGAAGTGTGCCTGGCCGGAGT  
GGCTCAGATGTCCATTGAAATGGGGGACATCCGCAGAGGGGCTAACCAAGCCCTCAAGCACCCAGCAGG  
GTCTCAAAGAGACTGTGGAGCCATTCTGGAGAACATGAAGCAATTTTCAAGAGCTGCCAGCTGTACG  
AAAAGGGCCAATATTATGACAGAGCTGCCTCGGTCTACATCCGCTGCAAGAACTGGGCAAAAGTTGGCGA  
ACTTCTCCCTCATGTCTCCTCTCCTAAGATCCACTTGCAGTATGCCAAAGCCAAGGAGGCAGACGGAAGG  
TACAAGGAAGCCGTGGTGGCGTATGAAAATGCAAAGCAATGGAACAGTGTATCCGCATCTACCTGGACC  
ACCTCAACAACCCCGAAAAGGCCGTGAGCATCGTCAGAGAGACCCAGTCTCTGGACGGAGCCAAGATGGT  
AGCCAGTTCTTTCTGCAGCTTGGTGACTATGGGTCTGCCATCCAGTTTCTGGTTCTGTCCAATGTAAC  
AATGAAGCCTTCACTTGGCTCAGCAGCACAAACAAATGGAAATCTACGCAGACATCATTGGTGTGAAG  
ACACAATAATGAAGACTATCAAAGTATCGCCTTATATTTTGAAGGAGAAAAAGACATTTTCAGGCTGG  
AAAATTCTTCTTACTGTGTGGCCAGTATTCACGGGCACTAAAGCACTTCTGAAATGCCAAGCTCAGAA  
GATAATGTGGCAATAGAAATGGCAATCGAACTGTGGGCCAGGCCAAAGATGAACTGCTGACCAATCAGC  
TGATCGACCACCTGATGGGGGAGAGCGATGGCATGCCAAAGGACGCCAAGTACCTGTTCCGCTTGTACAT  
GGCGCTAAAGCAGTACCGTGAAGCAGCCCGGACCCGCATCATATCGCCAGAGAAGAGCAGTCTGCAGGA  
AACTATCGGAATGCACACGATGTTCTTTTCAGTATGTACGCAGAACTAAAGCCCAGAAGATCAAGATCC  
CCTCCGAAATGGCCACCAACCTCATGATCCTGCACAGTTACATTCTCGTGAAGATTATGTTAAGAGTGG  
AGACCATATGAAGGGAGCGCATGCTCATTGGGTGGCCAACAATATCAGCAAGTCCCATCACACATC  
GTCCCTATCCTGACGTCTACTGTGATTGAGTGTATAGGGCAGGCTGAAAACTCTGCCTTCAGCTTTG  
CAGCTATGCTGATGAGGCTGAATACCGCAACAAAATTGATGCCAAGTACAAAAAGAAAATTGAGGCGAT  
GGTCAGGAGACCCGATACTTCAGAGACAGAAGAGGCCACCACCCCATGTCCATTCTGCCAGTTTCTTCTC  
CCAGAATGTGAGCTCCTGTCTGCTGGTGTAAAAACAACATTCCTATTGCATTGCAACAGGCCGACACA  
TGTTGAAAGACGACTGGACAATGTGCCCGCATTGTGGCTTCCCTGCTGTACTCAGAATTCAAGATCTT  
ACTAAACAGTAAAGCACGTGTCTATGTGTTTCAGAAAAGATTAAGTCCAGTCAACTGAAAAAATTACA  
GACTGCTCGCAGTACCTACGGACAGAGATGGAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG226133 representing NM\_153391  
 Red=Cloning site Green=Tags(s)

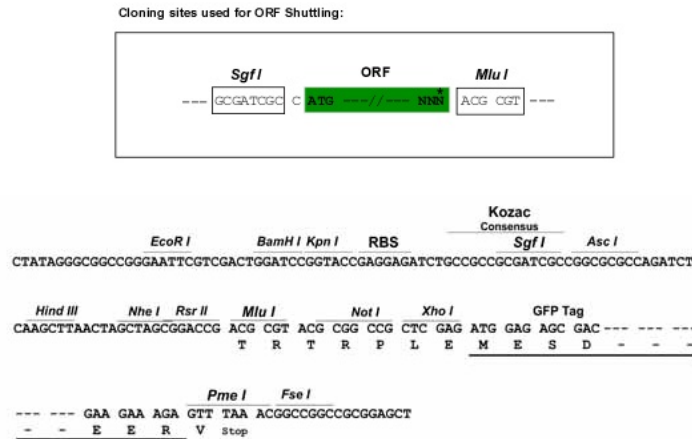
MKRVFSLLEKSWLGAPIQFAWQKSSGNLAVTGADYIVKIFDRHGQKRSEISLPGNCVTMDWDKGDILA  
 VIAEKSSCIYLDANTNKTSQLDNGMRDQMSFLLWSKIGSFLAVGTIKGNLLIYNHQTSRKIPVLGKHTK  
 KITCGCWNSENLLALGGEDKMITVSNQEGDTIRQTPVKSEPSDIKFSMSKTDERISSAENTISAVVGKMM  
 LFLFHLNEPDNPVDLEFQQAYGNIVCYSWYGDGYIMIGFSRGTFLAISTHFPEVQGEIFKARDHKDNLTS  
 VALSQTLNKAATCGDNCKIKIHDLELRDYMAYIINLDDENKGLGTLSTWDDGQLLALSTQRGSLHVFLTKL  
 PILGDACHTRIAYLTSLLLEVTVANLIEGEPPIVTVSVDVEPTFVAVGLYHLAVGMNRAWFYVLGENVVKK  
 LKDVEYLGTVASICLHSDYAAALFEGKIQHLIENEMLDAQEERETRLFPVDDKCRILCHALTSDFLIY  
 GTDTGIIHYFFIEDWQFVNDYRHPVGVKKLFPDPNGTRLVFIDEKSDGFVYCPVNDATYEIPDFSPTIKG  
 VLWENWPMDKGVFIAYDDDKVYTYAFHKDTIQGSKVILAGSTKLPFSHKPLLLYNGELTCQTQSGKINSI  
 YLSTHSFLGSMKDTEPTDLRQMLTQTLKRFSDAWDICKMLNDRTSWSELAKACLHHEMEVEFAIRVSR  
 MGDVGTVMSLEQIKGIEDYNLLAGHLAMFTNDFNLAQDLYLASNCPVAALMRRDLQHWDSALQLAKRLA  
 PDQIPFISKEYAIQLEFTGDYVNALAHYEKGITGDNKEHDEVCLAGVAQMSIRMGDIRRGANQALKHPSR  
 VLKRDCGAILNMQFSEAAQLYEKGQYDRAASVYIRCKNWAKVGELLPHVSSPKIHLQYAKAKEADGR  
 YKEAVVAYENAKQWNSVIRIYLDHLNNPEKAVSIVRETQSLDGAKMVARFFLQLGDYGSATQFLVLSKCN  
 NEAFTLAQQHNMKIYADIIGAEDTTNEDYQSIALYFEGEKRFHQAGKFFLLCGQYSRALKHFLKCPSS  
 DNVAIEMAIETVGQAKDELLTNQLIDHLMGESDGMKPKDAKYLFRLYMALKQYREAAARTAI IAREEQSAG  
 NYRNAHDVLFSMYAEKKAQKIKIPSEMATNLMILHSYILVKIHVKSQDGMKGMARMIRVANNISKFP  
 SHI  
 VPILTSTVIECHRAGLKNSAFSFAAMLMPPEYRNKIDAKYKKIEAMVRRPDTSETEEATPCPFQCFLL  
 PECCELLCPGCKNNIPYCIATGRHMLKDDWTMCPHCGFPALYSEFKILLNSESTCPMCSERLNSSQLKKIT  
 DCSQYLRTEME

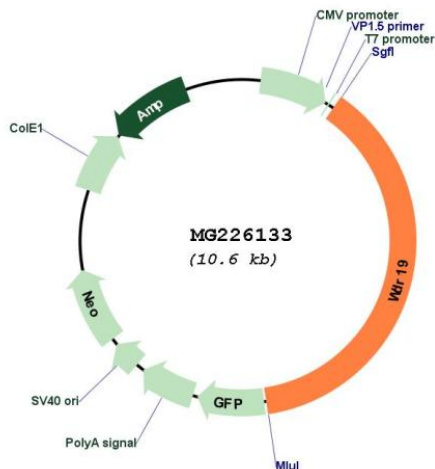
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_153391

**ORF Size:** 4023 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\\_153391.2](#), [NP\\_700440.2](#)

**RefSeq Size:** 4403 bp

**RefSeq ORF:** 4026 bp

**Locus ID:** 213081

**UniProt ID:** [Q3UGF1](#)

**Cytogenetics:** 5 C3.1

**Gene Summary:**

As component of the IFT complex A (IFT-A), a complex required for retrograde ciliary transport and entry into cilia of G protein-coupled receptors (GPCRs), it is involved in cilia function and/or assembly (Probable). Essential for functional IFT-A assembly and ciliary entry of GPCRs (By similarity). Associates with the BBSome complex to mediate ciliary transport (PubMed:22922713).[UniProtKB/Swiss-Prot Function]