

## Product datasheet for **RG222892**

### WDPCP (NM\_015910) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	WDPCP (NM_015910) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	WDPCP
Synonyms:	BBS15; C2orf86; CHDTHP; CPLANE5; FRITZ; FRTZ
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide  
Sequence:**

>RG222892 representing NM\_015910  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGCGGAGAGTTTTGCTGGGACGCCTACTCCAAAGCGGCCGGGAGTCGCGCTTCTCCCACTCCCGA  
 GACAGGATAGAGATTCCTTCTGCCATCAGATGTCTTTCTGCTTGAAGTGAAGTGCACCTGTGGTCTTTGAA  
 GAATACCTTACACATTGCGGATAGAGACATTGGGATCTACCAGTATTATGACAAGAAAGATCCACCAGCG  
 ACAGAGCATGGTAACTTAGAAAAGAAGCAGAAGCTGGCAGAGTCACGAGATTATCCTTGGACGCTCAAAA  
 ACAGACGCCAGAAAACTCCGAGACTCGCTCAAAGAGTTGGAGGAGCTGATGCAAAACAGTCGGTGTGT  
 GCTGAGCAAAATGGAAGAACAATATGTCTGTCACTCCTTTTTGGTTGAGTGTGCTGGTGTCTTAAGC  
 CTTTCTGGGCCGAGCTGGAGAAAGTGGTATTGACAGAAGCCTGGTGGGGAAGCTCATCTCAGACACCA  
 TCAGTGATGCTCTTCTCACAGACAGTTTTATCATCTTATCATTTTTGGCACAACAACTATGTTTTAT  
 TCAGTTTACCAAGAAGATGGAGTCTTCTGATGTAACAAAAGACTGGAAAACTCTCAGCCTTGGATTAT  
 AAGATTTTCTATTATGAAATACCCGGCCCAATAAACAAGACAACAGAGCGACATCTAGCTATCAACTGTG  
 TTCATGATAGAGTTGTTTCTGCTGGTGGCCACTGGTCAACGATGATGCTTGGCCTTGGGCCCCCATTTCTTC  
 TGAGAAGGACAGAGCCAATCTACTCCTCCTGGTTATGCTCAAGGAAGACTAGAGGTTCTGAGTTCTGTC  
 CGCACAGAATGGGACCCACTGGATGTTGCTTTGGCACCAACAGCCTTATCAGGTGTTACAGTGGAGC  
 ACTCCGTAAGTGTAGACAAGAGCCCATGGCTGACAGCTGCATCTATGAATGCATTCGGAATAAAATCCA  
 GTGTGTGCAGTCACCAGAATACCACTAAAGTCAAAGGCCATCAGCTGCTGCAGGAATGTTACTGAAGAC  
 AAATGATTCTGGGCTGTGAAGATTCTTCGCTAATTCTTTATGAAACTCACCGTAGAGTGACTCTCTTAG  
 CACAGACTGAACTTTTGCCTTCATTAATAAGCTGCCACCAAGTGGTGGCATTCTGCTATGTCAGAGCAA  
 CCAAGGGGAGTTGCAAAATTTTTGATATGGCTCTATCCCCTATTAACATCCAACCTGTTGGCTGAAGACCGC  
 TTACCCAGGGAGACTCTGCAATTCAGTAAATTATTTGATGCCTCCAGCAGTCTTGTTCAAATGCAATGGA  
 TAGCTCCTCAGGTTGTTTCTCAGAAGGGTGAAGGTAGTGATATCTATGATCTCCTCTTCTCAGGTTTGA  
 AAGAGGACCTTTGGGTGTGCTGTTGTTAAACTAGGCGTCTTCACTCGAGGACAGCTGGCCTGATAGAC  
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 AACTCTGGGCCACCAGTGCTTTATCAGCATGAGCGCCATTGTAACCATCTTCTTAGACAGAAGCTCAC  
 TCCAGAGAGAGAAGCACAGCTTGAGACAAGCCTTGGAACCTTCTATGCTCCAACAAGACCCTTCTGGAT  
 TCCACTATATTGGAATATAGAGATCAAAATCAGCAAATATGCAAGGAGATTCTCCATCACTTGCTCAGGT  
 ACCAGAGGTTTGAAGGCAATTTCTCCTAGCTGTTGACGTTGGTGTCTGACCTCTTTATGGATATTCA  
 TTACCTTGCACTAGATAAAGGTGAATTGGCACTAGCTGAAGTGGCAAGAAAAAGAGCTAGTGACATTGAT  
 GCAGAATCAATAACCTCTGGGGTTGAACTCCTGGGACCCTTGGACAGAGGGGATGCTAAATGAAGCAT  
 TTATTGGCCTGTCTTTAGCACCTCAAGGAGAAGACTCAATTCAGATAACCTCCCTCCCTCTTGCCCAAC  
 CCACAGACATATTTTACAACAAAGAATACTGAATGGCTCTTCTAACAGACAAATAATTGACAGAAGGAAT  
 GAACTTGAAGAAAGACATCTGTTCTGGATTTTTGATGACTAATACCTGTAATGCAGAAGACGGAGAAGTGA  
 GAGAAGACGGCAGAGAACAGGAAATCAGAGATGGTGGTCTCTCAAAATGATTCACTTTGGTCTGGTG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG222892 representing NM\_015910  
 Red=Cloning site Green=Tags(s)

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MRREFCWDAYSKAAGSRASSPLPRQDRDSFCHQMSFCLTELHLWSLKNTLHIADRDIGIYQYYDKKDP
TEHGNLEKKQKLAESRDYPWTLKNRRPEKLRDSLKEEELMQNSRCVLSKWKNKYVCQLLFGSGVLV
LSGPQLEKVVIDRSLVGKLISDTISDALLTDSFIILSFLAQNKLCFIQFTKKMESSDVNKRLKLSAL
DYKIFYEIPGPINKTTERHLAINCVDHVRVVCWWPLVNDADWPWAPISSEKDRANLLLLGYAQRLEVL
SSV RTEWDPLDVRFGTKQPYQVFTVEHSVSDKEPMADSCIYECIRNKIQCVSVTRIPKSKAISCCRN
VTEDKLILGCEDSSLILYETHRRVTLLAQTELLPSLISCHPSGAILLVGSNQGELQIFDMALSPINIQL
LAEDR LPRETQFSKLFDASSSLVQMOWIAPQVVSQKGEKSDIYDLLFLRFERGPLGVLLFKLVGFTR
GQLGLID IIFQYIHCDEIYEAINILSSMNWDTLGHQCFISMSAIVNHLLRQKLTPEREAQLETS
LGTGYAPTRPLLD STILEYRDQISKYARRFFHLLRYQRFEKAFLLAVDVGARDLFMDIHYLALDK
GELALAEVARKRASDID AESITSGVELLGPLDRGDMLEAFIGLSLAPQGEDSFDPNLPSPCPT
HRHILQQRILNGSSNRQIIDRRN ELEKIDICSGFLMTNTCNAEDGELREDGREQEIRDGGSLKMIHF
GLV
  
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_015910

**ORF Size:** 2238 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\\_015910.7](#)

**RefSeq Size:** 3326 bp

**RefSeq ORF:** 2241 bp

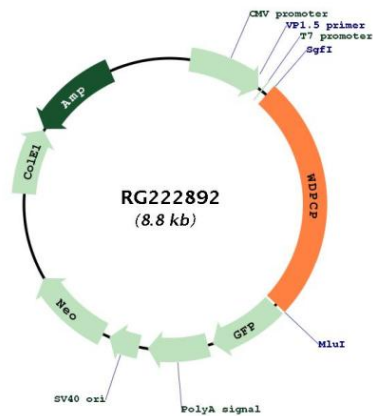
**Locus ID:** 51057

**UniProt ID:** [O95876](#)

**Cytogenetics:** 2p15

**Gene Summary:** This gene encodes a cytoplasmic WD40 repeat protein. A similar gene in frogs encodes a planar cell polarity protein that plays a critical role in collective cell movement and ciliogenesis by mediating septin localization. Mutations in this gene are associated with Bardet-Biedl syndrome 15 and may also play a role in Meckel-Gruber syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2014]

### Product images:



Circular map for RG222892