

Product datasheet for **RG210824**

WDPCP (NM_001042692) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WDPCP (NM_001042692) 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:

>RG210824 representing NM_001042692
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTTTCGTCTCTACATTCAGCTCTTCTCACAGACAGTTTTATCATCTTATCATTTTTTGGCACAAAACA
 AACATGTTTTATTACAGTTTACCAAGAAGATGGAGTCTTCTGATGTAAACAAAAGACTGGAAAACTCTC
 AGCCTTGATTATAAGATTTTCTATTATGAAATACCCGGCCCAATAAACAAAGACAACAGAGCGACATCTA
 GCTATCAACTGTGTTTCATGATAGAGTTGTTTGGCTGGTGGCCACTGGTCAACGATGATGCTTGGCCTTGGG
 CCCCCATTTCTTCTGAGAAGGACAGAGCCAATCTACTCCTCTGGGTTATGCTCAAGGAAGACTAGAGGT
 TCTGAGTTCTGTCCGACAGAATGGGACCCACTGGATGTTGCTTTGGCACCAAACAGCCTTATCAGGTG
 TTCACAGTGGAGCACTCCGTAAGTGTAGACAAAGAGCCCATGGCTGACAGCTGCATCTATGAATGCATTC
 GGAATAAAATCCAGTGTGTGTGTCAGTACCAGAATACCACTAAAGTCAAAGGCCATCAGCTGCTGCAGGAA
 TGTTACTGAAGACAAACTGATTCTGGGCTGTGAAGATTCTTCGTAATTCTTTATGAAACTCACCGTAGA
 GTGACTCTCTTAGCACAGACTGAACTTTTGCCTTCATTAATAAGCTGCCACCCAAGTGGTCCATTCTGC
 TAGTTGGCAGCAACCAAGGGGAGTTGCAAATTTTTGATATGGCTCTATCCCTATTAACATCCAAGTGT
 GGCTGAAGACCGCTTACCCAGGGAGACTCTGCAATTCAGTAAATATTTGATGCCTCCAGCAGTCTTGT
 CAAATGCAATGGATAGCTCCTCAGGTTGTTTCTCAGAAGGGTGAAGGTAGTGATATCTATGATCTCCTCT
 TCCTCAGGTTTGAAGAGGACCTTTGGGTGTGCTGTTGTTTAAACTAGGCGTCTTCACTCGAGGACAGCT
 GGGCCTGATAGACATCATCTCCAGTACATTCACTGTGATGAGATCTATGAGGCAATAAACATCCTGAGC
 AGCATGAACTGGGACACTCTGGCCACCAGTCTTTATCAGCATGAGCGCCATTGTAACCATCTTCTTA
 GACAGAAGCTCACTCCAGAGAGAGAAGCACAGCTTGAGACAAGCCTTGGAACTTCTATGCTCCAACAAG
 ACCACTTCTGGATTCCACTATATTGGAATATAGAGATCAAATCAGCAAATATGCAAGGAGATTCTCCAT
 CACTTGCTCAGGTACCAGAGTTTGAAGGCATTTCTCCTAGCTGTTGACGTTGGTCTGCTGACCTCT
 TTATGGATATTACCTTGCCTAGATAAAGGTGAATTGGCACTAGCTGAAGTGGCAAGAAAAAGAGC
 TAGTGACATTGATGCAGAATCAATAACCTCTGGGTTGAACTCCTGGGACCCTTGGACAGAGGGGATATG
 CTAATGAAGCATTATTGGCCTGTCTTAGCACCTCAAGGAGAAGACTCATTCCAGATAACCTCCCTC
 CCTTTGCCCAACCCACAGACATATTTTACAACAAAGAATACTGAATGGCTCTTCTAACAGACAAATAAT
 TGACAGAAGGAATGAACTTGAAGAAAGACATCTGTTCTGGATTTTGTGACTAATACCTGTAATGCAGAA
 GACGGAGAACTGAGAGAAGACGGCAGAGAACAGGAAATCAGAGATGGTGGTTCTCTCAAATGATCACT
 TTGGTCTGGTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG210824 representing NM_001042692
 Red=Cloning site Green=Tags(s)

MFSSLHSALLTDSFIILSFLAQNKLCFIQFTKKMESSDVNKRLEKLSALDYKIFYEIPGPINKTTERHL
 AINCVDHRVVCWWPLVNDDAWPWAPISSEKDRANLLLLGYAQRLEVLSSVRTEWDLDFRFGTKQPYQV
 FTVEHSVSVDKPEMADSCIYECIRNKIQCVSVTRIPKSKAISCCRNVTEDKILIGCEDSSLILYETHRR
 VTLLAQTELLPSLISCHPSGAILLVGSNQGELQIFDMALSPINIQLLAEDRLPRETLQFSKLFDASSLV
 QMQWIAPQVVSQKGEQSDIYDLLFLRFERFPLGVLLFKLGVFTRGQLGLIDIIIFQYIHCDEIYEAINILS
 SMNWDTLGHQCFISMSAIVNHLRQKLTPEREAQLETSLGTFYAPTRPLLDSTILEYRDQISKYARRFFH
 HLLRYQRFKAFLLAVDVGARDLFMDIHYLALDKGELALAEVARKRASDIDAESITSGVELLGPLDRGDM
 LNEAFIGLSLAPQGEDSFPDNLPPSCPTHRHLQQRILNGSSNRQIIDRRNELEKDICSGFLMTNTCNAE
 DGELREDGREQEIRDGGSLSKMIHFGLV

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001042692

ORF Size: 1761 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_001042692.3](#)

RefSeq Size: 2456 bp

RefSeq ORF: 1764 bp

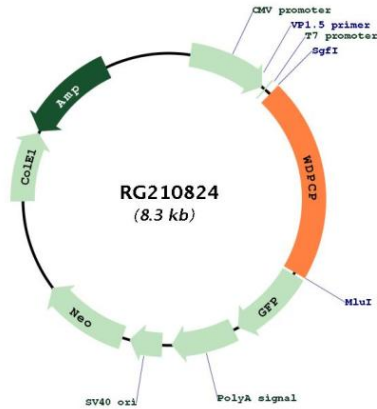
Locus ID: 51057

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 RG210824