

## Product datasheet for **RG206450**

### WFDC1 (NM\_021197) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	WFDC1 (NM_021197) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	WFDC1
Synonyms:	PS20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206450 representing NM_021197 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCTTTAACCGCGTGGGGCCGGCAGCTGCAGGAGGCAGATCATCCGGGCTGTGCCTCTTGCTAC  
TTCTCCTCCACGCCGGCTCTGCCAAGAATATCTGGAAACGGGCATTGCCTGCGAGGCTGGCCGAGAAATC  
CCGTGCCGAGGAGCGGGCGCGCCGGCGGCCCGCCGAGCCCGAGCAGACCGCTGCCCGCCGCTCCG  
CGGACGCTGCCCGCGCCTGCCAGGCCGCGCGCTGTCAGGCGGACTCCGAGTGCCCGCGGCACCGGC  
GCTGCTGTACAACGGATGCGCCTACGCTGCCTAGAAGCTGTGCCGCCCGCCAGTCTTAGACTGGCT  
GGTGCAGCCGAAACCTCGATGGCTTGGTGGCAATGGCTGGCTCCTGGATGGCCCTGAGGAGGTGTTACAA  
GCAGAGGCGTGCAGCACACGGAGGATGGGGCCGAACCCCTGCTCTGTCCCTCGGCTATGAGTGCCACA  
TCCTGAGCCCAGGTGACGTGGCCGAAGGTATCCCCAACCGTGGGCAGTGCCTCAAGCAGCGCCGGCAAGC  
AGATGGGCGAATCCTACGACACAACTTTACAAGAATATCCAGAAGGTGACTCAAAGAATGTGGCAGAA  
CCTGGAAGGGGACAACAGAAGCACTTTTCAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG206450 representing NM\_021197  
Red=Cloning site Green=Tags(s)

MPLTGVGPGSCRRIIRALCLLLLLHAGSAKNIWKRALPARLAEKSRAEEAGAPGGPRQPRADRCPPPP  
 RTLPPGACQAARCQADSECPHRRCCYNGCAYACLEAVPPPVLVDLWVQPKRWLGGNGWLLDGPPEVLQ  
 AEACSTTEDGAEP L LCP SGYECHILSPGDVAEGIPNRGQCVKQRRQADGRILRHKLYKEYPEGDSKNVAE  
 PGRGQQKHFQ

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_021197

**ORF Size:** 660 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\\_021197.4](#)

**RefSeq Size:** 1396 bp

**RefSeq ORF:** 663 bp

**Locus ID:** 58189

**UniProt ID:** [Q9HC57](#)

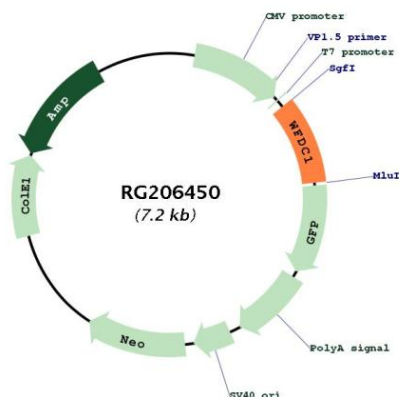
**Cytogenetics:** 16q24.1

**Domains:** WAP

**Protein Families:** Secreted Protein

**Gene Summary:** This gene encodes a member of the WAP-type four disulfide core domain family. The WAP-type four-disulfide core domain contains eight cysteines forming four disulfide bonds at the core of the protein, and functions as a protease inhibitor in many family members. This gene is mapped to chromosome 16q24, an area of frequent loss of heterozygosity in cancers, including prostate, breast and hepatocellular cancers and Wilms' tumor. This gene is downregulated in many cancer types and may be involved in the inhibition of cell proliferation. The encoded protein may also play a role in the susceptibility of certain CD4 memory T cells to human immunodeficiency virus infection. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2013]

## Product images:



Circular map for RG206450