

## Product datasheet for **RG224509**

### WFDC8 (NM\_130896) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	WFDC8 (NM_130896) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	WFDC8
Synonyms:	C20orf170; dj461P17.1; HEL-S-292; WAP8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG224509 representing NM_130896 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTGGACTGTCCGAAGTGAAGGAGGGCACTTTCCTCTCCATAGCCCCACCTTCTCCTGGAGGAATGTAG  
CTTTCCTGCTGCTTCTCCCTTGCTTTGGAGTGGACTTCTGCAATGCTGACCAAGAAGATCAAACACAA  
ACCAGGGTTATGTCCAAAGAGAGGCTCACCTGTACCACTGAAGTCCGGACTCATGTAACACAGATTTT  
GACTGCAAGGAATACCAGAAGTGTCTTTTTGCTGTCAGAAGAAGTGCATGGATCCCTTTCAAGAAC  
CCTGCATGCTACCTGTGAGGCATGAAACTGTAATCATGAGGCACAGCGCTGGCATTGACTTTAAAAA  
TTACCGCTGCACACCCCTCAAATACAGGGGCTGCGAAGGGAATGCCAACAACTTCTTAAGTGAGGATGCC  
TGCAGAACGCGCTGCATGTTAATTGTTAAGGATGGACAATGCCCACTCTTCCCTTCACTGAACGTAAGG  
AGTGTCCACCTTCATGTCACAGTGACATCGATTGTCCCCAGACAGACAAATGTTGTGAATCCAGGTGTGG  
CTTTGTTGTGCCAGGGCCTGGACAGTCAAAAAGGTTTCTGCCACGCAAGCCCTTGCTATGTACCAAG  
ATTGATAAACCAAGTGCCTGCAGGATGAGGAGTGCCATTGGTGGAAAAGTGTCTCACATTGTGGAC  
TGAAATGTATGGACCCAGACGT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG224509 representing NM\_130896  
Red=Cloning site Green=Tags(s)

MWTVRTEGGHFPLHSPTFSWRNVAFLLLLSLALEWTSAMLTKKIKHKPGLCPKERLTCTTELPDSCNTDF  
 DCKEYQKCCFFACQKKCMDPFQEPCLPVRHGNCNHEAQRWHDFKNYRCTPFKYRGCEGNANNFLSEDA  
 CRTACMLIVKDGQCPLFPFTERKECPPSCHSDIDCPQTDKCCESRCGFVCARAWTVKKGFCPRKPLLCTK  
 IDKPKCLQDEECLVEKCCSHCGLKCMDPRR

TRTRPLE - GFP Tag - V

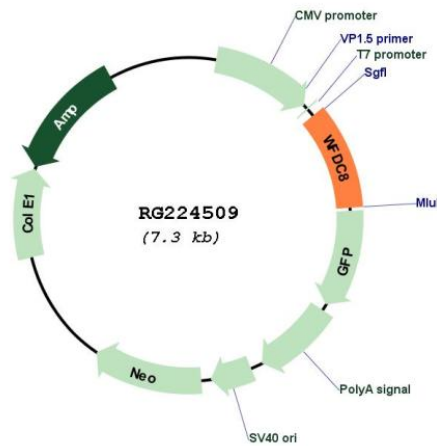
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_130896

**ORF Size:** 723 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_130896.1](#), [NP\\_570966.1](#)

**RefSeq Size:** 1069 bp

**RefSeq ORF:** 726 bp

**Locus ID:** 90199

**UniProt ID:** [Q8IUAA0](#)

**Cytogenetics:** 20q13.12

**Protein Families:** Secreted Protein

**Gene Summary:** This gene encodes a member of the WAP-type four-disulfide core (WFDC) domain family. The WFDC domain, or WAP signature motif, contains eight cysteines forming four disulfide bonds at the core of the protein, and functions as a protease inhibitor. The encoded protein contains a Kunitz-inhibitor domain, in addition to three WFDC domains. Most WFDC genes are localized to chromosome 20q12-q13 in two clusters: centromeric and telomeric. This gene belongs to the telomeric cluster. Two alternatively spliced transcript variants have been found for this gene, and they encode the same protein. [provided by RefSeq, Jul 2008]