

Product datasheet for **RC222677**

WFDC9 (NM_147198) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: WFDC9 (NM_147198) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: WFDC9
Synonyms: dj688G8.2; WAP9
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC222677 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAAGCCCTGGATTCTTCTACTCGTCATGTTTCATCTCTGGAGTTGTGATGCTTCTGCCTGTGCTGGGAA
GCTTCTGGAACAAAGATCCCTTTCTAGATATGATAAGAGAACTGAGCAGTGCTGGGTACAGCCTCCATA
TAAGTACTGTGAGAAAAGGTGACTAAAATAATGACTTGTGTACGTCCAATCATACATGCTGCTGGACC
TACTGTGAAACATCTGCTTAGACAACGAAGAGCCCTTAAATCAATGCTAAACCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC222677 protein sequence
Red=Cloning site Green=Tags(s)
MKPWILLLVMFISGVVMLLPVLGFWKDPFLDMIRETEQCWVQPPYKYCEKRCTKIMTCVRPNHTCCWT
YCGNICLDNEEPLKSMNLN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6473_e01.zip

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_147198

ORF Size: 267 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 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_147198.4](#)

RefSeq Size: 668 bp

RefSeq ORF: 270 bp

Locus ID: 259240

UniProt ID: [Q8NEX5](#)

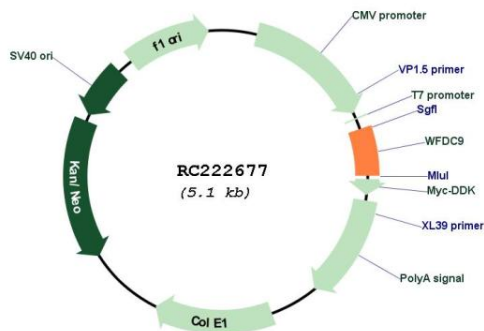
Cytogenetics: 20q13.12

Protein Families: Secreted Protein, Transmembrane

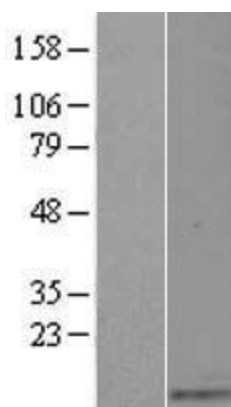
MW: 10.5 kDa

Gene Summary: The WAP-type four-disulfide core (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 in many members of the WFDC domain family. This gene encodes a protein which contains a WFDC domain, and is thus a member of the WFDC domain family. This gene and several other gene family members are clustered at 20q13.12. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC222677



Western blot validation of overexpression lysate (Cat# [LY407790]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222677 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).