OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC224509

WFDC8 (NM_130896) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WFDC8 (NM_130896) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	WFDC8
Synonyms:	C20orf170; dJ461P17.1; HEL-S-292; WAP8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC224509 representing NM_130896
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTGGACTGTCCGAACTGAAGGAGGGCACTTTCCTCTCCATAGCCCCACCTTCTCCTGGAGGAATGTAG
CTTTCCTGCTGCTTCTCTCCCTTGCTTTGGAGTGGACTTCTGCAATGCTGACCAAGAAGATCAAACACAA
ACCAGGGTTATGTCCCAAAGAGAGGCTCACCTGTACCACTGAACTTCCGGACTCATGTAACACAGATTTT
GACTGCAAGGAATACCAGAAGTGCTGCTTTTTTGCCTGTCAGAAGAAGTGCATGGATCCCTTTCAAGAAC
CCTGCATGCTACCTGTGAGGCATGGAAACTGTAATCATGAGGCACAGCGCTGGCATTTTGACTTTAAAAA
TTACCGCTGCACACCCTTCAAATACAGGGGCTGCGAAGGGAATGCCAACAACTTCTTAAGTGAGGATGCC
TGCAGAACGGCCTGCATGTTAATTGTTAAGGATGGACAATGCCCACTCTTCCCTTTCACTGAACGTAAGG
AGTGTCCACCTTCATGTCACAGTGACATCGATTGTCCCCAGACAGACAAATGTTGTGAATCCAGGTGTGG
CTTTGTTTGTGCCAGGGCCTGGACAGTCAAAAAAGGTTTCTGCCCACGCAAGCCCTTGCTATGTACCAAG
ATTGATAAACCCAAGTGCCTGCAGGATGAGGAGTGCCCATTGGTGGAAAAGTGCTGCTCACATTGTGGAC
TGAAATGTATGGACCCCAGACGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC224509 representing NM_130896
Red=Cloning site Green=Tags(s)

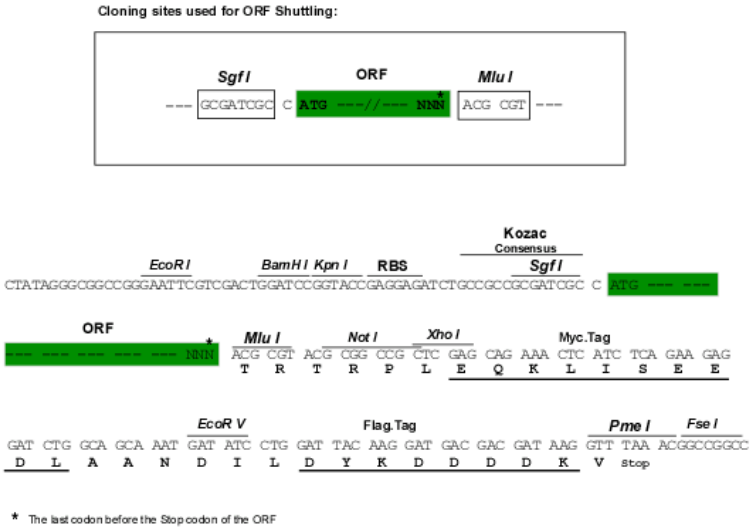
MWTVRTEGGHFPLHSPTFSWRNVAFLLLLSLALEWTSAMLTKKIKHKPGLCPKERLTCTTELPDSCNTDF
DCKEYQKCCFFACQKKCMDPFQEPCMLPVRHGNCNHEAQRWHFDFKNYRCTPFKYRGCEGNANNFLSEDA
CRTACMLIVKDGQCPLFPFTERKECPPSCHSDIDCPQTDKCCESRCGFVCARAWTVKKGFCPRKPLLCTK
IDKPKCLQDEECPLVEKCCSHCGLKCMDPRR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6097_f01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



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 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.

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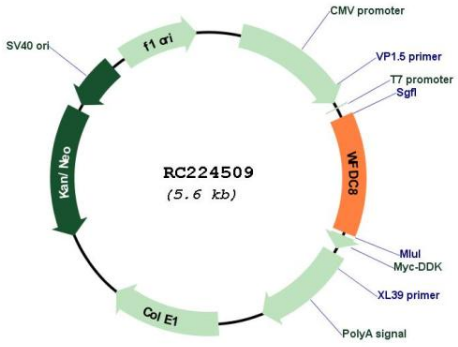
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile 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:	Q8IUA0
Cytogenetics:	20q13.12
Protein Families:	Secreted Protein
MW:	23.4 kDa
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]

Product images:



Circular map for RC224509

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