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Product datasheet for RC204523

WFDC5 (NM_145652) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WFDC5 (NM_145652) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	WFDC5
Synonyms:	dJ211D12.5; PRG5; WAP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC204523 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGGACCCAGAGCCTTCTCCTCCTGGGGGCCCTCCTGGCTGTGGGGAGTCAGCTGCCTGCTGTCTTTG
GCAGGAAGAAGGGAGAGAAATCGGGGGGCTGCCCGCCAGATGATGGGCCCTGCCTCCTATCGGTGCCTGA
CCAGTGCGTGGAAGACAGCCAGTGTCCCTTGACCAGGAAGTGCTGCTACAGAGCTTGCTTCCGCCAGTGT
GTCCCCAGGGTCTCTGTGAAGCTGGGCAGCTGCCCAGAGGACCAACTGCGCTGCCTCAGCCCCATGAACC
ACCTGTGTCACAAGGACTCAGACTGCTCGGGCAAAAAGCGATGCTGCCACAGCGCCTGCGGGCGGGATTG
CCGGGATCCTGCCAGAGGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC204523 protein sequence
Red=Cloning site Green=Tags(s)

MRTQSLLLLGALLAVGSQLPAVFGRKKGEKSGGCPPDDGPCLLSVPDQCVEDSQCPLTRKCCYRACFRQC
VPRVSVKLGSCPEDQLRCLSPMNHLCHKDSDCSGKKRCCHSACGRDCRDPARG

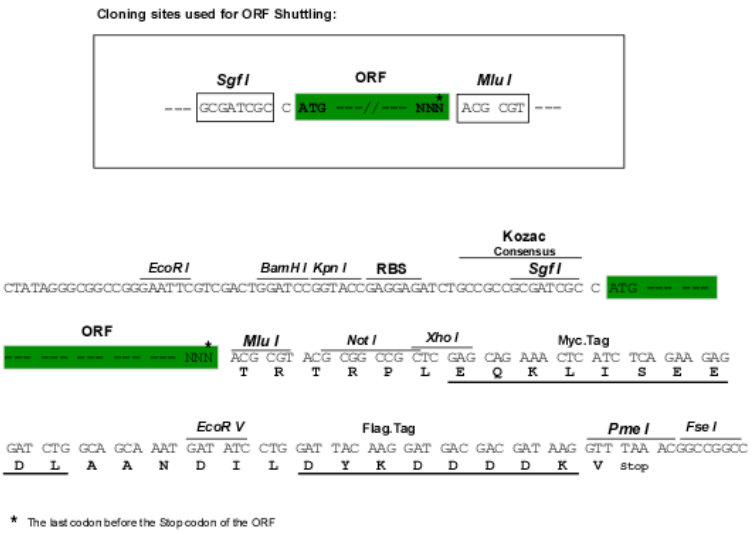
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6014_b03.zip

Restriction Sites: SgfI-MluI

View online »

Cloning Scheme:



ACCN: NM_145652

ORF Size: 369 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_145652.4

RefSeq Size: 1018 bp

RefSeq ORF: 372 bp

Locus ID: 149708

UniProt ID: Q8TCV5

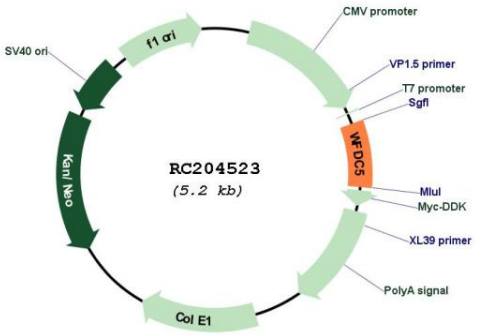
Cytogenetics: 20q13.12

Protein Families: Secreted Protein

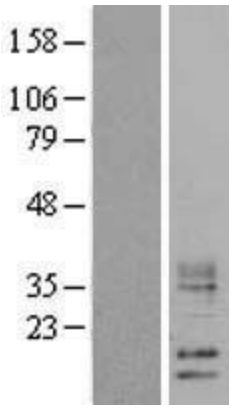
MW: 13.3 kDa

Gene Summary: This gene encodes a member of the WAP-type four-disulfide core (WFDC) domain family. Most WFDC proteins contain only one WFDC domain, and this encoded protein contains two WFDC domains. 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. Most WFDC gene members are localized to chromosome 20q12-q13 in two clusters: centromeric and telomeric. This gene belongs to the centromeric cluster. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC204523



Western blot validation of overexpression lysate (Cat# [LY403436]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204523 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).