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Product datasheet for RC206458

SPINLW1 (EPPIN) (NM_020398) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPINLW1 (EPPIN) (NM_020398) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SPINLW1
Synonyms:	CT71; CT72; dJ461P17.2; SPINLW1; WAP7; WFDC7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC206458 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGATCTTCTGGACTTTTGAGCCTCCTGGTGCTATTCGTCCTCTTAGCGAATGTCCAGGGACCTGGTC
TGACTGATTGGTTATTTCCCAGGAGATGTCCCAAAATCAGAGAAGAATGTGAATTCCAAGAAAGGGATGT
GTGTACAAAGGACAGACAATGCCAGGACAACAAGAAGTGTTGTGTCTTCAGCTGCGGAAAAAAATGTTTA
GATCTCAAACAAGATGTATGCGAAATGCCAAAAGAAACTGGCCCCTGCCTGGCTTATTTTCTTCATTGGT
GGTATGACAAGAAAGATAATACTTGCTCCATGTTTGTCTATGGTGGCTGCCAGGGAAACAATAACAACTT
CCAATCCAAAGCCAACTGCCTGAACACCTGCAAGAATAAACGCTTTCCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC206458 protein sequence
Red=Cloning site Green=Tags(s)

MGSSGLLSLLVLFVLLANVQGPGLTDWLFPRRCPKIREECEFQERDVCTKDRQCQDNKKCCVFSCGKKCL
DLKQDVCEMPKETGPCLAYFLHWWYDKKDNTCSMFVYGGCQGNNNNFQSKANCLNTCKNKRFP

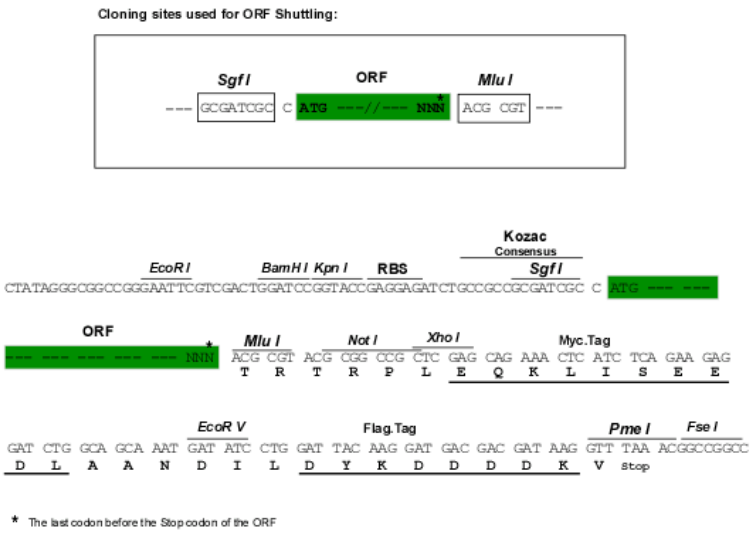
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6266_h05.zip

Restriction Sites: SgfI-MluI

View online »

Cloning Scheme:



ACCN:	NM_020398
ORF Size:	399 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_020398.4
RefSeq Size:	1998 bp
RefSeq ORF:	402 bp

Locus ID: 57119

UniProt ID: O95925

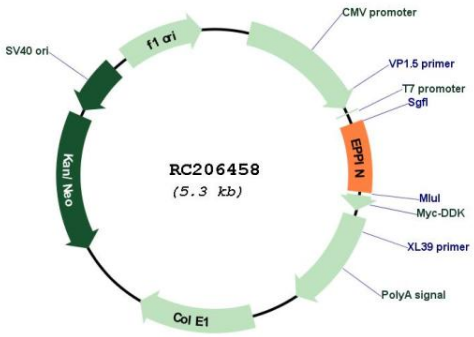
Cytogenetics: 20q13.12

Protein Families: Secreted Protein

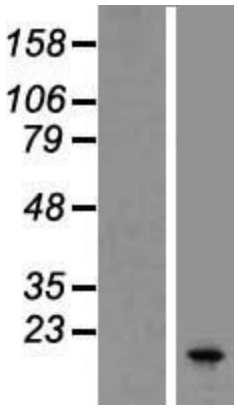
MW: 15.3 kDa

Gene Summary: This gene encodes an epididymal protease inhibitor, which contains both kunitz-type and WAP-type four-disulfide core (WFDC) protease inhibitor consensus sequences. Most WFDC genes are localized to chromosome 20q12-q13 in two clusters: centromeric and telomeric. This gene is a member of the WFDC gene family and belongs to the telomeric cluster. The protein can inhibit human sperm motility and exhibits antimicrobial activity against E. coli, and polymorphisms in this gene are associated with male infertility. Read-through transcription also exists between this gene and the downstream WFDC6 (WAP four-disulfide core domain 6) gene. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2014]

Product images:



Circular map for RC206458



Western blot validation of overexpression lysate (Cat# [LY412501]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206458 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).