

## Product datasheet for **SC333745**

### SPINLW1 (EPPIN) (NM\_001302861) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SPINLW1 (EPPIN) (NM_001302861) Human Untagged Clone
Tag:	Tag Free
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)
Fully Sequenced ORF:	>SC333745 representing NM_001302861. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG  
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**  
**ATGGGATCTTCTGGACTTTGAGCCTCCTGGTGTATTCGTCCTTAGCGAATGTCCAGGGACCTGGT**  
**CTGACTGATTGGTTATTTCCAGGAGATGTCCAAAATCAGAGAAGAATGTGAATCCAAGAAAGGGAT**  
**GTGTGTACAAAGGACAGACAATGCCAGGACAACAAGAAGTGTGTGTCTCAGCTGCGGAAAAAATGT**  
**TAGATCTCAACAAGTCTCTGCAGATGTATGCGAAATGCCAAAGAACTGGCCCTGCCTGGCTT**  
**ATTTTCTTCATTGGTGGTATGACAAGAAAGATAATACTTGCTCCATGTTGTCTATGGTGGCTGCCAGG**  
**GAAACAATAACAATTCCAATCCAAAGCCAACCTGCCTGA**  
**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT  
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	NM_001302861
Insert Size:	384 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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).



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**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\\_001302861.1](#)

**RefSeq Size:** 800 bp

**RefSeq ORF:** 384 bp

**Locus ID:** 57119

**UniProt ID:** [O95925](#)

**Cytogenetics:** 20q13.12

**Protein Families:** Secreted Protein

**MW:** 14.2 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]

Transcript Variant: This variant (3) uses an alternate splice junction in a 3' coding exon compared to variant 1, that causes a frameshift. The resulting isoform (3) has a shorter and distinct C-terminus compared to isoform 1.