

Product datasheet for **RC204697**

SLPI (NM_003064) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SLPI (NM_003064) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: SLPI
Synonyms: ALK1; ALP; BLPI; HUSI; HUSI-I; MPI; WAP4; WFDC4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC204697 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGTCCAGCGGCTCTTCCCCTTCTGGTGTCTTGCCTGGAACTCTGGCACCTTGGGCTGTGG
 AAGGCTCTGAAAGTCTTCAAAGCTGGAGTCTGTCTCTAAGAAATCTGCCAGTGCCTTAGATACAA
 GAAACCTGAGTCCAGAGTGACTGGCAGTGTCCAGGGAAGAAGAGATGTTGTCTGACACTTGTGGCATC
 AAATGCCTGGATCCTGTTGACACCCCAACCAAGGAGGAAGCCTGGGAAGTCCCAGTGACTTATG
 GCCAATGTTTGTGCTTAACCCCAATTTCTGTGAGATGGATGCCAGTGCAAGCGTGACTTGAAGTG
 TTGCATGGGCATGTGTGGAAATCTGCGTTTCCCCTGTGAAAGCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC204697 protein sequence
 Red=Cloning site Green=Tags(s)

MKSSGLFPFLVLLALGTLAPWAVEGSGKSFKAGVCPKKSQAQLRYKKPECQSDWQCPGKKRCCPDTCGI
 KCLDPVDPNPNTRRKPVKCPVYTGQCLMLNPPNFCMDGQCKRDLKCCMGCMGKSCVSPVKA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6069_b02.zip

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_003064

ORF Size: 396 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_003064.4](#)

RefSeq Size: 625 bp

RefSeq ORF: 399 bp

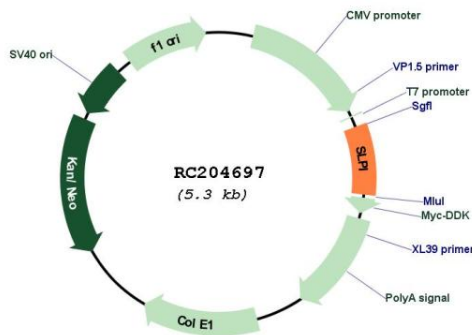
Locus ID: 6590

UniProt ID: [P03973](#)

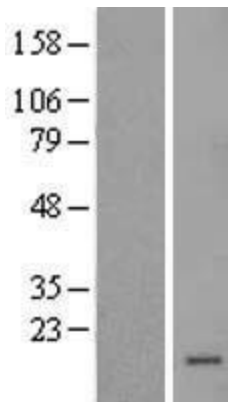
Cytogenetics: 20q13.12
Domains: WAP
Protein Families: Secreted Protein
MW: 14.3 kDa

Gene Summary: This gene encodes a secreted inhibitor which protects epithelial tissues from serine proteases. It is found in various secretions including seminal plasma, cervical mucus, and bronchial secretions, and has affinity for trypsin, leukocyte elastase, and cathepsin G. Its inhibitory effect contributes to the immune response by protecting epithelial surfaces from attack by endogenous proteolytic enzymes. This antimicrobial protein has antibacterial, antifungal and antiviral activity. [provided by RefSeq, Nov 2014]

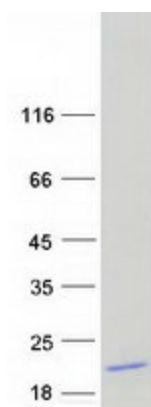
Product images:



Circular map for RC204697



Western blot validation of overexpression lysate (Cat# [LY418925]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204697 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SLPI protein (Cat# [TP304697]). The protein was produced from HEK293T cells transfected with SLPI cDNA clone (Cat# RC204697) using MegaTran 2.0 (Cat# [TT210002]).