

Product datasheet for **RC223900**

SPINK5 (NM_006846) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPINK5 (NM_006846) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SPINK5
Synonyms:	LEKTI; LETKI; NETS; NS; VAKTI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC223900 representing NM_006846 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGATAGCCACAGTGTCAAGTCTTCTGCCCTTGGCTCTTTGCCTCATACAAGATGCTGCCAGTAAGA
ATGAAGATCAGGAAATGTGCCATGAATTCAGGCATTTATGAAAAATGGAAACTGTTCTGTCCCAAGGA
TAAGAAATTTTTCAAAGTCTTGATGGAATAATGTTTCATCAATAAATGTGCCACGTGCAAAATGATACTG
GAAAAAGAAGCAAAATCACAGAAGAGGGCCAGGCATTTAGCAAGAGCTCCAAGGCTACTGCCCAACAG
AGCTGAATTGTGATGATTTTAAAAAGGAGAAAGAGATGGGATTTTATCTGTCTGATTATTATGAAGC
TGTTTGTGGCACAGATGGGAAACATATGACAACAGATGTGCACTGTGTGCTGAGAATGCGAAAACCGGG
TCCCAAAATGGTGTAAAAAGTGAAGGGGAATGTAAAGAGCAGTAATCCAGAGCAGGATGTATGCAGTGCTT
TTCGGCCCTTTGTAGAGATGGAAGACTTGGATGCACAAGGGAAAATGATCCTGTTCTTGGTCTGATGG
GAAGACGCATGGCAATAAGTGTGCAATGTGTGCTGAGCTGTTTTTAAAGAAGCTGAAAATGCCAAGCGA
GAGGGTGAAGCTAGAATTCGACGAAATGCTGAAAAGGATTTTGAAGGAATATGAAAAACAAGTGAGAA
ATGGAAGGCTTTTTGTACACGGGAGAGTGATCCAGTCCGTGGCCCTGACGGCAGGATGCATGGCAACAA
ATGTGCCCTGTGTGCTGAAATTTTCAAGCAGCGTTTTTTCAGAGGAAAACAGTAAACAGATCAAAATTTG
GGAAAAGCTGAAGAAAAAACTAAAGTTAAAGAGAAAATGTGAACTCTGCAGTCAATATCAAAATCAGG
CAAGAATGGAATACTTTCTGTACAGAGAAAATGACCCATTTCGTGGTCCAGATGGGAAAATGCATGG
CAACTTGTGTTCCATGTGTCAAGCCTACTTCCAAGCAGAAAATGAAGAAAAGAAAAGGCTGAAGCACGA
GCTAGAAACAAAAGAGAATCTGGAAGCAACCTCATATGCAGAGCTTTCAGTGAATATCGAAAGCTTG
TGAGGAACGGAAGCTTCTTGCACAGAGAGAACGATCCTATCCAGGGCCAGATGGGAAAGTGCATGG
CAACACCTGCTCCATGTGTGAGGTCTTCTTCCAAGCAGAGAAGAAGAAAAGAAAAGAGGAAGGTAA
TCAAGAAACAAAAGACAATCTAAGAGTACAGCTTCCTTTGAGGAGTTGTGTAGTGAATACCGCAATCCA
GGAAAAACGGACGGCTTTTTTGCACAGAGAGAATGACCCATCCAGGGCCAGATGGAAAATGCATGG
CAACACCTGCTCCATGTGTGAGGCCTTCTTCAACAAGAAGAAAGAGCAAGAGCAAGGCTAAAAGAGAA



[View online »](#)

GCTGCAAAGGAAATCTGCAGTGAATTCGGGACCAAGTGAGGAATGGAACACTTATATGCACCAGGGAGC
ATAATCCTGTCCGTGGCCAGATGGCAAAATGCATGGAACAAGTGCCATGTGTGCCAGTGTGTTCAA
ACTTGAAGAAGAAGAGAAGAAAAATGATAAAGAAGAAAAAGGAAAGTCGAGGCTGAAAAAGTTAAGAGA
GAAGCAGTTCCAGGAGCTGTGCAGTGAATATCGTCATTATGTGAGGAATGGACGACTCCCTGTACCAGAG
AGAATGATCCTATTGAGGGTCTAGATGGGAAAAACACGGCAACACCTGCTCCATGTGTGAAGCCTTCTT
CCAGCAAGAAGCAAAAGAAAAAGAAAGAGCTGAACCCAGAGCAAAAGTCAAAAGAGAAGCTGAAAAGGAG
ACATGCGATGAATTCGGAGACTTTTGCAAAATGGAAAACCTTTCTGCACAAGAGAAAATGATCCTGTGC
GTGGCCAGATGGCAAGACCCATGGCAACAAGTGCCATGTGTAAAGGCAGTCTTCCAGAAAGAAAATGA
GGAAAGAAAGAGGAAAGAGAGGAAGATCAGAGAAATGCTGCAGGACATGGTTCCAGTGGTGGTGGAGGA
GGAAACACTCAGGACGAATGTGCTGAGTATCGGGAACAAATGAAAAATGGAAGACTCAGCTGTACTCGGG
AGAGTGATCCTGTACGTGATGCTGATGGCAAACTGTAACAACATCAGTGTACCATGTGTAAAGCAAAATT
GGAAAGAGAAGCAGAGAGAAAAATGAGTATTCTCGCTCCAGATCAAATGGGACTGGATCAGAATCAGGG
AAGGATACATGTGATGAGTTTGAAGCCAAATGAAAAATGAAAACTCATCTGCACTCGAGAAAGTGACC
CTGTCCGGGTCAGATGGCAAGACACATGGCAATAAGTGTACTATGTGTAAAGAAAACTGAAAAGGGA
AGCAGCTGAAAAAAGAAAGAGGATGAAGACAGGAGCAATACAGGAGAAAGGAGCAATACAGGAGAA
AGGAGCAATGACAAAGAGGATCTGTGTCGTGAATTCGAAGCATGCAGAGAAATGAAAAGCTTATCTGCA
CCAGAGAAAAATAACCCTGTTTCGAGGCCCATATGGCAAGATGCACATCAATAAATGTGCTATGTGTGAGAG
CATCTTTGATCGAGAAGCTAATGAAAGAAAAAGAAAGATGAAGAGAAATCAAGTAGCAAGCCCTCAAAT
AATGCAAAGGATGAGTGCAAGTGAATTCGAAACTATATAAGGAACAATGAACTCATCTGCCCTAGAGAGA
ATGACCCAGTGACCGGTGCTGATGGAAAGTTCTATACAAACAAGTGCTACATGTGCAGAGCTGTCTTTCT
AACAGAAGCTTTGAAAGGGCAAAGCTTCAAGAAAAGCCATCCCATGTTAGAGCTTCTCAAGAGGAAGAC
AGCCCAGACTCTTTCAGTTCTCTGGATTCTGAGATGTGCAAGACTACCGAGTATTGCCAGGATAGGTT
ATCTTTGTCCAAAGGATTTAAAGCCTGTCTGTGGTGACGATGGCCAAACCTACAACAATCCTTGCATGCT
CTGTCTGAAACCTGATACGCCAAACAAATACACACATCCGAGTACAGGGAAGTGTGAGGAGAGCAGC
ACCCAGGAACACCGCAGCCAGCATGCCCCGTCTGACGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC223900 representing NM_006846

Red=Cloning site Green=Tags(s)

MKIATVSVLLPLALCLIQDAASKNEDQEMCHEFQAFMKNKGLFCPQDKKFFQSLDGIMFINKCATCKMIL
EKEAKSQKRARHLARAPKATAPTELNCDDFKGERDGFICPDYIEAVCGTDGKTYDNRCALCAENAKTG
SQIGVKSEGECKSSNPEQDVCSAFRPFVRDGRGLCTRENDPVLGPDGKTHGNKCAMCAELFLKEAENAKR
EGETRIRRNAEKDFCKEYEQVRNGRLFCTRESDPVRGPDGRMHGNKCALCAEIFKQRFSEENSKTDQNL
GKAEETKVVKREIVKLCSQYQNAKNGILFCTRENDPIRGPDGKMHGNLCSMCQAYFQAENEEKKAEAR
ARNKRESGKATSYAELCSEYRKLVRNGKLACTRENDPIQGPDKGVHGNTCSMCEVFFQAEENEEKKKEGK
SRNKRQSKSTASFEELCSEYRKSRLNGRLFCTRENDPIQGPDKGMHGNTCSMCEAFFQEEERARAKRE
AAKEICSEFRDQVRNGTLICTREHNPVRGPDGKMHGNKCAMCASVFKLEEEKKNDKEEKGVAEKVVR
EAVQELCSEYRHYVRNGRLPCTRENDPIEGLDGKIHGNTCSMCEAFFQEAKEKERAEPRAKVKREA
TCDEFRRLLQNGKLFCTRENDPVRGPDGKTHGNKCAMCKAVFQKENEERKRKEEDQRNAAGHGSSGGG
GNTQDECAEYREQMKNGLSCTRESDPVRDADGKSYNNQTMCKAKLREAEKNEYSRSRNGTGESG
KDTCDFRSMQKNGKLICTRESDPVRGPDGKTHGNKCTMCKELEREAEEKKKEDRSNTGERSNTGE
RSNDKEDLCREFRSMQKNGKLICTRENTPVRGPYGMHINKCAMCQSIQDREANERKKKDEEKSSSKPSN
NAKDECSEFRNYIRNNELICPRENDPVHAGDGKFTNKCVMCRVFLTEALERAKLQEKPSHVRASQED
SPDSFSSLDSEMCKDYRVLPRIGYLCPKDLKPVCDDGQTYNNPCMLCHENLIRQTNTHIRSTGKCEES
TPGTTAASMPSPDE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_006846

ORF Size: 3192 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_006846.4

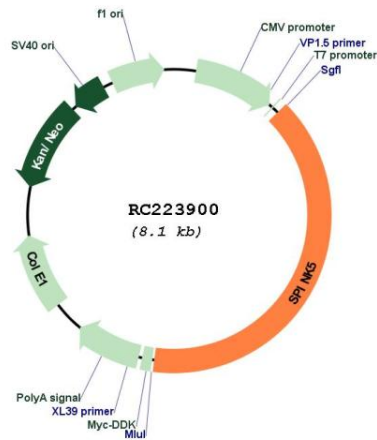
RefSeq Size: 3655 bp

RefSeq ORF: 3195 bp

Locus ID: 11005
UniProt ID: [Q9NQ38](#)
Cytogenetics: 5q32
MW: 120.7 kDa

Gene Summary: This gene encodes a multidomain serine protease inhibitor that contains 15 potential inhibitory domains. The encoded preproprotein is proteolytically processed to generate multiple protein products, which may exhibit unique activities and specificities. These proteins may play a role in skin and hair morphogenesis, as well as anti-inflammatory and antimicrobial protection of mucous epithelia. Mutations in this gene may result in Netherton syndrome, a disorder characterized by ichthyosis, defective cornification, and atopy. This gene is present in a gene cluster on chromosome 5. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2015]

Product images:



Circular map for RC223900