

Product datasheet for **RC206574**

SPINK1 (NM_003122) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SPINK1 (NM_003122) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: SPINK1
Synonyms: PCTT; PSTI; Spink3; TATI; TCP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC206574 representing NM_003122
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGGTAACAGGCATCTTCTCTCAGTGCCTTGGCCCTGTTGAGTCTATCTGGTAACACTGGAGCTG
 ACTCCCTGGGAAGAGAGGCCAAATGTTACAATGAACCTAATGGATGCACCAAGATATATGACCCTGTCTG
 TGGGACTGATGGAATACTTATCCCAATGAATGCGTGTTATGTTTGAAGAAATCGGAAACGCCAGACTTCT
 ATCCTCATTCAAAAATCTGGGCCTTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC206574 representing NM_003122
 Red=Cloning site Green=Tags(s)

MKVTGIFLLSALALLSLSGNTGADSLGREAKCYNELNGCTKIYDPVCGTDGNTYPNECVLCFENRKRQTS
 ILIQKSGPC

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2697_a09.zip

Restriction Sites: SgfI-MluI



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Cloning Scheme:



ACCN: NM_003122

ORF Size: 237 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

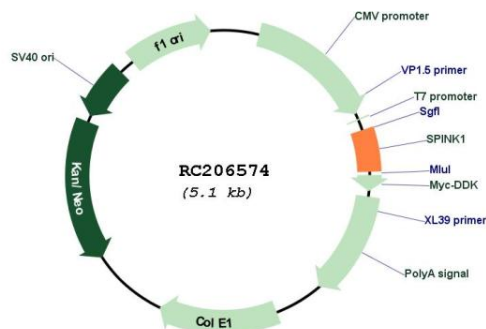
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.

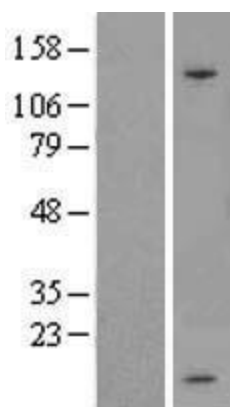
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<ol style="list-style-type: none"> 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:	<u>NM_003122.5</u>
RefSeq Size:	438 bp
RefSeq ORF:	240 bp
Locus ID:	6690
UniProt ID:	<u>P00995</u>
Cytogenetics:	5q32
Protein Families:	Druggable Genome, Secreted Protein
MW:	8.51 kDa
Gene Summary:	The protein encoded by this gene is a trypsin inhibitor, which is secreted from pancreatic acinar cells into pancreatic juice. It is thought to function in the prevention of trypsin-catalyzed premature activation of zymogens within the pancreas and the pancreatic duct. Mutations in this gene are associated with hereditary pancreatitis and tropical calcific pancreatitis. [provided by RefSeq, Oct 2008]

Product images:



Circular map for RC206574



Western blot validation of overexpression lysate (Cat# [LY418887]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206574 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).