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Product datasheet for RG223900

SPINK5 (NM_006846) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPINK5 (NM_006846) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SPINK5
Synonyms:	LEKTI; LETKI; NETS; NS; VAKTI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG223900 representing NM_006846
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGATAGCCACAGTGTCAGTGCTTCTGCCCTTGGCTCTTTGCCTCATACAAGATGCTGCCAGTAAGA
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GCTGCAAAGGAAATCTGCAGTGAATTTCGGGACCAAGTGAGGAATGGAACACTTATATGCACCAGGGAGC
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ACCCCAGGAACCACCGCAGCCAGCATGCCCCCGTCTGACGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG223900 representing NM_006846
Red=Cloning site Green=Tags(s)

MKIATVSVLLPLALCLIQDAASKNEDQEMCHEFQAFMKNGKLFCPQDKKFFQSLDGIMFINKCATCKMIL
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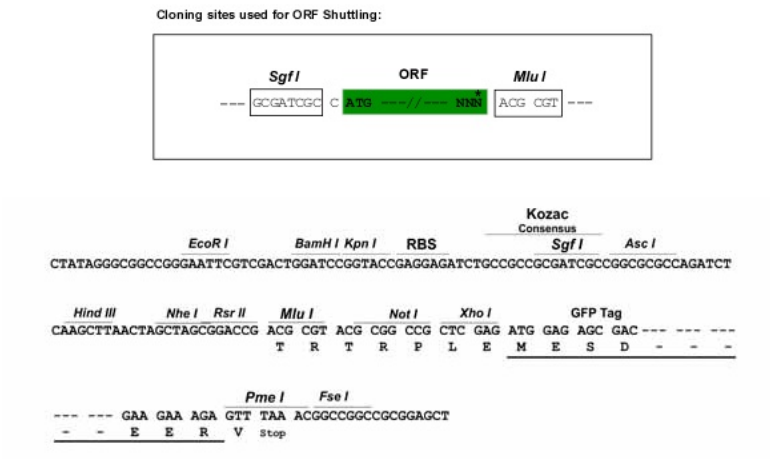
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



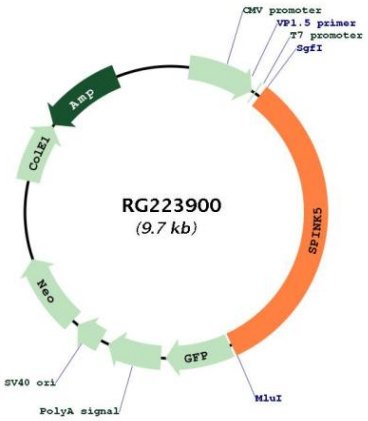
ACCN:	NM_006846
ORF Size:	3192 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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.
RefSeq:	NM_006846.4
RefSeq Size:	3655 bp
RefSeq ORF:	3195 bp
Locus ID:	11005

UniProt ID: Q9NQ38

Cytogenetics: 5q32

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 RG223900