

Product datasheet for **MR227802**

Spink2 (NM_001289764) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Spink2 (NM_001289764) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Spink2
Synonyms: 1700007F22Rik; AV038945; HUSI-II
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR227802 representing NM_001289764
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGTTCTGCGCGTCCGTTACTGGCGGTTCTGCCCCGTGGAGAGTGGTGGCCATGGAAGCCTCTCATG
AGACTCTCGACTTTCGATTCTCAAATCATGAAGAGGTCACAGTTCGGAACACCAGACTGTGGTCATTT
TGACTCCAGCATGCCCTAGGAACCTCAACCCTGTGTGCGGAACGGATATGAACACTTACAGCAATGAA
TGTACCCTGTGCATGAAAATCAGGGAGGACGGTAGCCATATTAATATCATCAAAGACGAGCCATGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR227802 representing NM_001289764
Red=Cloning site Green=Tags(s)

MGSCRAVTGGSAPWRVAMEASHETLDSSDSQIMKRSQFRTPDCGHDFDPACPRNLNPVCGTDMNTYSNE
CTLCMKIREDGSHINIIKDEPC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_001289764

ORF Size: 276 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_001289764.1](#), [NP_001276693.1](#)

RefSeq Size: 552 bp

RefSeq ORF: 279 bp

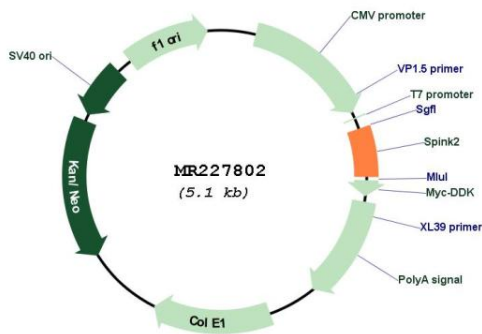
Locus ID: 69982

Cytogenetics: 5 C3.3

MW: 10.2 kDa

Gene Summary: As a strong inhibitor of acrosin, it is required for normal spermiogenesis. It probably hinders premature activation of proacrosin and other proteases, thus preventing the cascade of events leading to spermiogenesis defects (PubMed:21705336, PubMed:28554943). May be involved in the regulation of serine protease-dependent germ cell apoptosis (PubMed:21705336). It also inhibits trypsin (PubMed:21705336).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR227802