

Product datasheet for **RR212991**

Spint1 (NM_001004265) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Spint1 (NM_001004265) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Spint1
Synonyms:	HAI-1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR212991 representing NM_001004265
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGCCCGCCGCTGGCGCAGGCCAGCATCTCTACGGTCTGCGTATGGCTCCTTTGCGCGCTTGGTC
 TCCAGGGCACTGAGACCGAGCTGCCGTCCGCACCCCTGAGTTTTCCGGGGGAGCCGCTGCTTGAACCG
 CTTTACCAGCGGGGTGCCGGCTTTTGTGTGGACACCGAAGCTTCACTCAGCAACGGGGCCACCTTCCTG
 GGTTCGCCGACGGTGCACCGCGGCTGGGACTGCGTGCCTGCTGCACCACCCAAAAGTAACTCGG
 CGCTGGTGGAGCTGCAGCCGGACGGAGGCGAGGACGCCATCTCTGCCTGCTTCTCATGAACTGCCTGTA
 TGAGCAGAATTCGTGTGCAATTCGCTCCGAAGGACGGCTTCACTCAACTATCTTACCAAGATCTTTAC
 AACTCCTACCGGAGCTGCGAATCGAGGCTTTGGAGTTCCCGGATCCCTCGAATCTGGATGGGCATAG
 ACTTGAAGGTGCAGCTGCAGAAGCCCTGGTACTGAGAGATGCAGACAACACAGACTGCCATCTACTGCA
 AGGTGACCAAGATGTCAGTGTTAAGAGAAACCATCCAGAAGAAGTTGAGCTGTGGGGACTTAAGGAGGGA
 ACCTACCTGTTCCAAGTACAAGAACCAGCTCAGACCAGCTAGAGGAAACAGTCAACCTGACTATACCCG
 TGCTAACTGCCGAGCAGACGGAAGATTATTGCCTCGCATCCTACAAGGTGGGCGCGTCCCGGGGCTCCTT
 CCCACGCTGGTACTATGACCCCAAGGAACAGATCTGCAAAAGTTTCACTTTTGGAGGTTGCCTAGGCAAC
 AAGAACAACACTCTTCGTGAGGAAGAGTGCATGCTAGCCTGCAAGGATGTGAAAGGAATCTCACAAAA
 GGCATCATCCAGTGTGCACCGGCAGTCCCATAGCACGCAAGTCCAGTGCAGCAATGGCTGCTGTATCGA
 CGGCTTCTGGAGTGTGATGACACGCTGACTGCCCTGATGGCTCCGATGAGGCCACTTGTGAAAAATAT
 AGCAGCGGCTTTGATGAACCTCAGAGTATCCACTTCTCAGTGACAAAGGACTGTGTCAGAGCTGCCAG
 ACACTGGATTTTGAAGGAGAACATCCCACGCTGGTATTACAACCCATTCACTGAAACGCTGTGCCCGCTT
 CACCTATGGTGGTTGCTACGGGAACAAGAACAACCTTTGAGAAGGAACAGCAGTGTCTTGAGTCTGTGCT
 GGCATCTCCAAGAAGGATGTGTTTCGGTCTTCGGAGGAAAGCTCCGTTCCAGTGCAGGCTCTGTGGAGG
 TAGCTATTGCTGTATTGCTGGCCGTCTGCATCATAGTGGTCTTGACCATCCTGGGCTACTGTTTCTTCAA
 GAACCAAAAAAGAACTTCCACAGCCCCCTGCACCAACCACCTCCACACCAGCCAGCTCCACTGTTTCC
 ACCACTGAGGACACAGACACCTGGTCTATAATCACACAACCCAGCCTCTC

**ACCGGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA**

Protein Sequence:

>RR212991 representing NM_001004265
 Red=Cloning site Green=Tags(s)

MAARRLAQASISTVCVLLCALGLQGTETELPSAPPEFSGGAACLNRFVSGVPAFVLDTEASVSNATFL
 GSPTVHRGWDCVRACCTQNCNLALVELQPDGGEDAISACFLMNCLYEQNFVCKFAPKDFINYLTDLY
 NSYRELRTGRFGGSRIPRIWMGIDLKVQLQKPLVLRDADNTDWHLLQGDQDVSVKRNHPPEEVELWGLKEG
 TYLFQLTRTDSQLEETVNLITIVLTAEQTEDYCLASYKVGRCRGSFPRWYYPKEQICKSFTFGGLGN
 KNNYLREEECMLACKDVKGISPKRHPVCTGSCHSTQFQCSNGCCIDGFLECDTPDCPDGSDEATCEKY
 SSGFDELQSIHFLSDKGYCAELPDTGFCKENIPRWYYPFSERCARFTYGGCYGNKNFKEQQCLESER
 GISKKDVFGLRRESSVPSAGSVEVAIAVLLAVCIIVVLITLGYCFFKNQKNFHSPLHQPPPTPASSTVS
 TTEDTEHLVYNHTTQPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

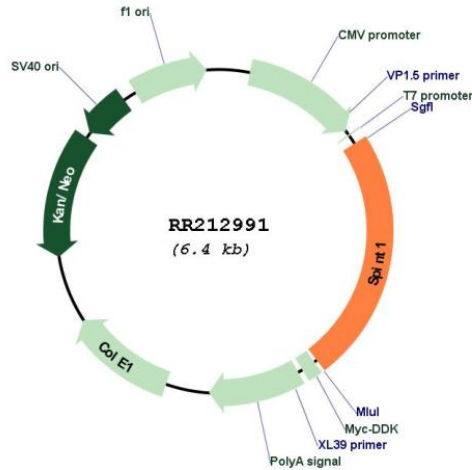
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001004265

ORF Size: 1521 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_001004265.2](#), [NP_001004265.2](#)

RefSeq Size: 2321 bp

RefSeq ORF: 1524 bp

Locus ID: 311331

Cytogenetics: 3q35

MW: 56.5 kDa

Gene Summary: human homolog inhibits the serine proteases hepatocyte growth factor activator (HGFA) and matriptase, which regulate hepatocyte growth factor processing and maturation [RGD, Feb 2006]