

## Product datasheet for **RG218993**

### SPINT1 (NM\_181642) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SPINT1 (NM_181642) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SPINT1
Synonyms:	HAI; HAI1; MANSC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG218993 representing NM\_181642  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCCTCGAGGACGATGGCCCGGCCCGCTCGCCCGGCCGGCATCCCTGCCGTCGCTTGTGGC  
 TTCTGTGCACGCTCGCCCTCCAGGGCACCCAGGCCGGGCCACCGCCCGCCCTGGGCTGCCCGGG  
 AGCCGACTGCCTGAACAGCTTTACCGCCGGGTGCCTGGCTTCGTGCTGGACACCAACGCCTCGGTGAGC  
 AACGGAGTACCTTCTGGAGTCCCCACCGTGCGCCGGGGTGGGACTGCGTGCAGCCTGCTGCACCA  
 CCCAGAAGTGAACCTGGCGCTAGTGGAGCTGCAGCCGACCGCGGGGAGGACGCCATCGCCGCTGCTT  
 CCTCATCAACTGCCTCTACGAGCAGAATTCGTGTGCAAGTTCGCGCCAGGGAGGGCTTCATCAACTAC  
 CTCACGAGGAAGTGTACCGCTCTACCGCAGCTGCGGACCCAGGGCTTTGGAGGGTCTGGGATCCCCA  
 AGGCCTGGGACGAGTACTTGAAGGTACAACCCAGGAACCCCTGGTGTGAAGGATGTGAAAAACAC  
 AGATTGGCGCCTACTGCGGGGTGACACGGATGTCAGGGTAGAGAGAAAGACCCAAACCAGGTGAACTG  
 TGGGGACTCAAGGAAGGCACCTACTGTTCCAGCTGACAGTACTAGCTCAGACCCAGAGGACACGG  
 CCAACGTACAGTCACTGTGCTGTCCACCAAGCAGACAGAAGACTACTGCCTCGCATCCAACAAGGTGGG  
 TCGCTGCCGGGGCTTTTCCACGCTGGTACTATGACCCACGGAGCAGATCTGCAAGAGTTTCTTTAT  
 GGAGGCTGCTTGGGAACAAGAACAACCTACCTCGGAAGAAGAGTGCATTCTAGCCTGTGGGGTGTGC  
 AAGGTGGGCTTTGAGAGGCAGCTCTGGGGCTCAGGCGACTTTCCCCAGGGCCCTCCATGAAAGGGC  
 CCATCCAGTGTGCTCTGGCACCTGTGAGCCACCCAGTTCGCTGCAGCAATGGCTGTGCATCGACAGT  
 TTCTGGAGTGTGACGACACCCCAACTGCCCGACGCTCCGACGAGGCTGCCTGTGAAAAATACACGA  
 GTGGCTTTGACGAGCTCCAGCGCATCCATTTCCCAAGTACAAAGGGCACTGCGTGGAGCTGCCAGACAC  
 AGGACTCTGCAAGGAGAGCATCCCGCGTGGTACTACAACCCCTCAGCGAACACTGCGCCCGCTTACC  
 TATGGTGGTTGTTACGGCAACAAGAACAACCTTTGAGGAAGAGCAGCAGTGCCTCGAGTCTTGTGCGGCA  
 TCTCCAAGAAGGATGTGTTGGCCTGAGGCGGGAATCCCATTCACGACAGGCTCTGTGGAGATGGC  
 TGTGCGAGTGTCTGCTCATCTGCATTGTTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT  
 CAGAGAAAGGACTTCCACGGACACCACCACCACCACCACCACCACCACCACCACCACCACCACCACCACC  
 CCGAGGACACGGACACCTGGTCTATAACCACACCACGGCCCTC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG218993 representing NM\_181642  
 Red=Cloning site Green=Tags(s)

MAPARTMARARLAPAGIPAVALWLLCTLGLQGTQAGPPPAPPGLPAGADCLNSFTAGVPGFVLDTNASVS  
 NGATFLESPTVRRGWDCVRACCTTQNCNLALVELQPDREGDAIAACFLINCLYEQNFVCKFAPREGFINY  
 LTREYRSYRQLRTQGGGSGIPKAWAGIDLKVQPQEPLVLKDVENDWRLLRGDTRVVERKDPNQVEL  
 WGLKEGTYLFQLTVTSSDHPEDTANVTVTVLSTKQTEDYCLASNKVGRCRGSFPRWYDPTQICKSFVY  
 GGGLGNKNNYLREEECILACRGVQGGPLRGSSGAQATFPQGPSMERRHPVCSGTCQPTQFRCSNGCCIDS  
 FLECDTPNCPDASDEAAACEKYTSGFDELQRIHFPSDKGHCVDLPDTGLCKESIPRWYYPFSEHCARFT  
 YGGCYGNKNNFEEEQCLESCRGISKKDVFGLRREIPIPISTGSVEMAVAVFLVICIVVVVAILGYCFFKN  
 QRKDFHGHHPPTPASSTVSTTEDTEHLVYNHTTRPL

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_181642

**ORF Size:** 1587 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\\_181642.3](#)

**RefSeq Size:** 2484 bp

**RefSeq ORF:** 1590 bp

**Locus ID:** 6692

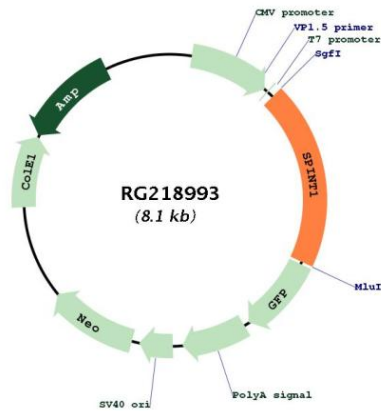
**UniProt ID:** [O43278](#)

**Cytogenetics:** 15q15.1

**Protein Families:** Druggable Genome, Secreted Protein, Transmembrane

**Gene Summary:** The protein encoded by this gene is a member of the Kunitz family of serine protease inhibitors. The protein is a potent inhibitor specific for HGF activator and is thought to be involved in the regulation of the proteolytic activation of HGF in injured tissues. Alternative splicing results in multiple variants encoding different isoforms. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG218993