

Product datasheet for **RG203537**

SPINT1 (NM_001032367) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPINT1 (NM_001032367) 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:

>RG203537 representing NM_001032367
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCCTCGAGGACGATGGCCCGCCCGCCTCGCCCGGCCGGCATCCCTGCCGTCGCTTGTGGC
 TTCTGTGCACGCTCGGCCTCCAGGGCACCCAGGCCGGGCCACCGCCCGGCCCTGGGCTGCCCGGG
 AGCCGACTGCCTGAACAGCTTTACCGCCGGGTGCCTGGCTTCGTGCTGGACACCAACGCCTCGGTGAG
 AACGGAGTACCTTCTGGAGTCCCCACCGTGCGCCGGGGTGGGACTGCGTGCAGCCTGCTGCACCA
 CCCAGAAGTCAACTTGGCGCTAGTGGAGTGCAGCCGACCGCGGGGAGGACGCCATCGCCGCTGCTT
 CCTCATCAACTGCCTCTACGAGCAGAAGTTCGTGTGCAAGTTCGCGCCAGGGAGGGCTTCATCAACTAC
 CTCACGAGGGAAGTGTACCGCTCTACCGCAGTGCAGCCAGGGCTTTGGAGGTCTGGGATCCCCA
 AGGCCTGGGAGGATAGACTTGAAGGTACAACCCAGGAACCCCTGGTGTGAAGGATGTGAAAAACAC
 AGATTGGCGCCTACTGCGGGGTGACACGGATGTCAGGGTAGAGAGAAAGACCCAAACAGTGGAACTG
 TGGGGACTCAAGGAAGGCACCTACTGTTCCAGCTGACAGTACTAGCTAGACACCCAGAGGACACGG
 CCAACGTACAGTCACTGTGCTGTCCACCAAGCAGACAGAAGACTACTGCCTCGCATCCAACAAGGTGGG
 TCGCTGCCGGGGCTTTTCCACGCTGGTACTATGACCCACGGAGCAGATCTGCAAGAGTTTCGTTTAT
 GGAGGCTGCTTGGGAACAAGAACAACCTACCTCGGAAGAAGAGTGCATTCTAGCTGTGGGGTGTGC
 AAGGCCCTCCATGAAAGGCGCCATCCAGTGTGCTCTGGCACCTGTGAGCCACCCAGTTCGCTGCAG
 CAATGGCTGTGCATCGACAGTTTCTGGAGTGTGACGACACCCCAACTGCCCGACGCTCCGACGAG
 GCTGCCTGTGAAAAATACAGAGTGGCTTTGACGAGCTCCAGCGCATCCATTTCCCAAGTACAAAGGGC
 ACTGCGTGGACCTGCCAGACACAGGACTCTGCAAGGAGAGCATCCCGCGTGGTACTACAACCCCTTCA
 CGAACACTGCGCCCGCTTTACCTATGGTGGTGTATGGCAACAAGAACAACCTTTGAGGAAGAGCAGCAG
 TGCTCGAGTCTGTGCGGGCATCTCCAAGAAGGATGTGTTTGGCCTGAGCGGGAAATCCCATCCCCA
 GCACAGGCTCTGTGGAGATGGCTGTGCGAGTGTCTGCTCATCTGCATTGTGGTGGTGGTATGCCATCTT
 GGGTTACTGCTTCTCAAGAACCAGAGAAAGGACTTCCACGGACACCACCACCACCACCACCACCCTT
 GCCAGCTCCACTGTCTCCACTACCGAGGACACGGAGCACCTGGTCTATAACCACACCACCAGCCCTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG203537 representing NM_001032367
 Red=Cloning site Green=Tags(s)

MAPARTMARARLAPAGIPAVALWLLCTLGLQGTQAGPPPAPPGLPAGADCLNSFTAGVPGFVLDTNASVS
 NGATFLESPTVRRGWDCVRACCTTQNCNLALVELQPDREGDAIAACFLINCLYEQNFVCKFAPREGFINY
 LTREVYRSYRQLRTQFGGSGIPKAWAGIDLKVPQPEPLVLKDVENTDWRLLRGDTRVVERKDPNQVEL
 WGLKEGTYLFQLTVTSSDHPEDTANVTVTVLSTKQTEDYCLASNKVGRCRGSFPRWYDPTQICKSFVY
 GGCLGNKNNYLREEECILACRGVQGPSMERRHPVCSGTQPTQFRCSNGCCIDSFLECDTPNCPDASDE
 AACEKYTSGFDELQRIHFPSDKGHCVDLPDTGLCKESIPRWYYPFSEHCARFTYGGCYGNKNNFEEEQQ
 CLESCRGISKKDVFGLRREIPIPSTGSVEMAVAVFLVICIVVVVAAILGYCFFKNQRKDFHGHHPPTP
 ASSTVSTTEDTEHLVYNHTTRPL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:

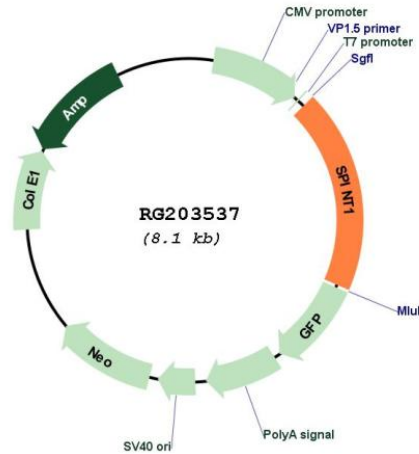


EcoRI *BamHI* *KpnI* *RBS* *Kozac Consensus* *SgfI* *AscI*
 CTATAGGGCGGCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGGCCAGATCT

HindIII *NheI* *RsrII* *MluI* *NotI* *XhoI* *GFP Tag*
 CAAGCTTAACTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---
 T R T R P L E M E S D - - -

PmeI *FseI*
 --- --- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT
 - - E E R V Stop

Plasmid Map:



ACCN: NM_001032367

ORF Size: 1539 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:	<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.
RefSeq:	NM_001032367.1 , NP_001027539.1
RefSeq Size:	2342 bp
RefSeq ORF:	1542 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]