

Product datasheet for **MG221943**

Ssh1 (NM_198109) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ssh1 (NM_198109) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ssh1
Synonyms:	AW551225; Gm1394; Gm1395; SSH-1; SSH-1L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG221943 representing NM_198109 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCTTGGTGACCCTTCAGCGCTCTCCACGCCAGCGCCGCGTCTTCTCCGCAAGCAACAGCGAGT
TGGAGGCTGGCAGCGATGAAGAACGAAATTGAACCTCAGCTTGAGTGAGAGCTTTTTTCATGGTAAAGG
AGCTGCCCTTCTTCTACAGCAGGAAACAGCCACAGGGCCAGCGGAGTCTTTCAGCACCTCACAAGCAT
GCAGGTGATCTGCCTCAGCACCTGCAAGTGATGATCAACCTCCTGCGTTGTGAAGACAGAATCAAGCTGG
CCGTGCGCTAGAGAGTGTCTGGACCGACCGTGTCCGCTACATGGTCGTGGTATACACCAGCGGGGCCA
GGACACCGAGGAGAATATTCTGCTGGGAGTTGACTTTTTCCAGTAAGGAGAGCAAAAGCTGCACGATCGGA
ATGGTTCTTCGACTCTGGAGCGACACCAAGATTCACTCGATGGGGACGGCGGGTTCAGTGTGAGCACAG
CGGGCAGGATGCACATATTCAAGCCAGTGTCTGTCCAGGCCATGTGGTCTGCCCTGCAAGTGCTTCAAA
GGCCTGCGAAGTGGCCCGGAGGCATAACTACTTCCAGGAGGAGTGGCGCTCATCTGGGCCACCTACTAT
GAGAGCTGCATCAGCTCGGAGCAGAGCTGCATCAATGAGTGGAATGCCATGCAGGACCTGGAGTCCACGC
GGCCCGACTCCCCGCGCTGTTTGTGGACAAGCCAACCGAGGGCGAAAGAACTGAGCGCCTCATTAAAGC
CAAACCTCCGGAGCATCATGATGAGCCAGGACCTTGAAGGAGTCAAGGAAATGACTTCTAAGGAAATCCGAAATGAGCTG
GAGAAGCAAATGAACTGCAACCTGAAGGAGTTCAGGAAATTCATCGATAACGAGATGCTGCTCATCCTGG
GCCAGATGGACAAGCCCTCCCTCATCTTTGACCATCTTTATCTTGGCTCCGAGTGGAAATGCATCCAATCT
GGAGGAGCTGCAGGGCTCAGGAGTTGACTACATTTTAAATGTCACTAGAGAAATAGACAATTTTTTCCCC
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CGCAGAGCCAGTGAGTCTTGCCAGAGACCTTGACGGAGCCCTGGACGCTCAGCTGCCCTGTTGGAT



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GATACCACCCACCTGGGCTCCCGAGAAGTCTGGCCCCAGGAGGACCCGCTCTCCCCTGTTGTTTTCGAA
 GACTCTCGGACCCCTCCTCTTCCCACCATGATGAAACGGGTGGCCTGGTCCACTTAGAGGATCTCGA
 GAAGGATGCTCTGTTAGAGGAGGAGGAGTCTCAGCCAGTGGAGGTGCACAAGCTGGTTCCAGCATCCCCAG
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 ACGGAGGACCTGTCCAGCGAGGCTGACACATCCACCATCGCTGACTCGCAGGACGCCAAGTGTGGTCTCT
 CCTCTTCTTCTTGCCTGAAACCCAGTCTGCGCCAAGGGACCCCGCTGCAACCTCTAAATCATCAGGGAA
 ATCTGCCCCAGAACACTTGAAAAGCCCGTCGAGGGTAAACAAAAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG221943 representing NM_198109
 Red=Cloning site Green=Tags(s)

MALVTLQRSPTPSAASSASNSELEAGSDEERKLNLSLSEFFMVKGAALFLQQGNPQGGQRSLQHPKH
 AGDLPQHLQVMINLLRCEDRIKLAVRLESVWTDVRVYMVVYVYTSGRQDTEENILLGVDFSSKESKSTIG
 MVLRLWSDTKIHLGDGGFVSVSTAGRMHIFKPVSVQAMWSALQVLHKACEVARRHNYFPGGVALIWATYY
 ESCISSEQSCINENAMQDLESTRPDPALFVDKPTGERTERLIKAKLRSIMMSQDLENTSKEIRNEL
 EKQMNCLKEFKFIDNEMLLILGQMDKPSLIFDHLYLGSEWNASNLEELQGGSGVDYILNVTREIDNFFP
 GLFAYHNIRVYDEETDLLAHWNEAYHFINKAKRNHSHKCLVHCKMGVSRASSTVIAIYAMKEFGWPLEKAY
 NYVKQKRSITRPNAGFMRQLSEYEGILDASKQRHNKLRWQQPTDDTIAEPSEFLPETLDGALDAQLPCLD
 DTHPGLPRSLAPGGPALPCCFRRLSDPLLLPHHDETGGLVHLEDLEKDALLEEEESQPVEVHKLQHPQ
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 SRAPERASGPANTSPFLLPAGSRKPDVSGSAGAAPEPPASLLEPSRETSKALPKSLQLKNPHCDKNA
 NMEVSAKEEPSPKKDPKPAKDLRLFSNEAEKPTTNSYLMQHQESIQLQKAGLVRKHTKELERLKSLS
 DSPAACRDSATCRLEASIPPEGSQEPALCSQAGSEEPVGGTLQKSPSTLPRLDHTSNFSKDFLKT
 VCYTPTSSSISSNLTRSSSDSIHVRGKPLVKQRAQEIETRLRLAGLTVSSPLKRSHSLAKLGSNLFS
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TRTRPLE - GFP Tag - V

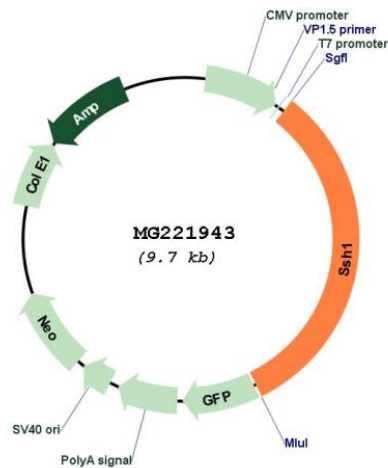
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_198109

ORF Size: 3126 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_198109.5
RefSeq Size:	3174 bp
RefSeq ORF:	3129 bp
Locus ID:	231637
UniProt ID:	Q76I79
Cytogenetics:	5 F
Gene Summary:	Protein phosphatase which regulates actin filament dynamics. Dephosphorylates and activates the actin binding/depolymerizing factor cofilin, which subsequently binds to actin filaments and stimulates their disassembly. Inhibitory phosphorylation of cofilin is mediated by LIMK1, which may also be dephosphorylated and inactivated by this protein. [UniProtKB/Swiss-Prot Function]