

Product datasheet for MR221943

Ssh1 (NM_198109) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ssh1 (NM_198109) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ssh1
Synonyms: AW551225; Gm1394; Gm1395; SSH-1; SSH-1L
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR221943 representing NM_198109
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCCTTGGTGACCCTTCAGCGCTCTCCACGCCAGCGCCGCGTCTTCTCCGCAAGCAACAGCGAGT
 TGGAGGCTGGCAGCGATGAAGAACGAAATTGAACCTCAGCTTGAGTGAGAGCTTTTTTCATGGTAAAGG
 AGCTGCCCTTCTTACAGCAGGAAACAGCCACAGGGCCAGCGGAGTCTTCAGCACCTCACAAGCAT
 GCAGGTGATCTGCCTCAGCACCTGCAAGTGATGATCAACCTCCTGCGTTGTGAAGACAGAATCAAGCTGG
 CCGTGCCTTAGAGAGTGTCTGGACCGACCGTGTCCGCTACATGGTCGTGGTATACACCAGCGGGGCCA
 GGACACCGAGGAGAATATTCTGCTGGGAGTTGACTTTTCCAGTAAGGAGAGCAAAAGCTGCACGATCGGA
 ATGGTTCTTCGACTCTGGAGCGACCAAGATTCACTCGATGGGGACGGCGGGTTCAGTGTGAGCACAG
 CGGGCAGGATGCACATATTCAAGCCAGTGTCTGTCCAGGCCATGTGGTCTGCCCTGCAAGTGCTTCAAA
 GGCTGCGAAGTGGCCGGAGGCATAACTACTTCCAGGAGGAGTGGCGCTCATCTGGGCCACTACTAT
 GAGAGCTGCATCAGCTCGGAGCAGAGCTGCATCAATGAGTGGAATGCCATGCAGGACCTGGAGTCCACGC
 GGCCCGACTCCCCGCGTGTGGTGGACAAGCCAACCGAGGGCGAAAGAACTGAGCGCCTCATTAAAGC
 CAACTCCGGAGCATCATGATGAGCCAGGACCTGAAAATGTGACTTCTAAGGAAATCCGAAATGAGCTG
 GAGAAGCAAATGAACTGCAACCTGAAGGAGTTCAAGGAATTCATCGATAACGAGATGCTGCATCCTGG
 GCCAGATGGACAAGCCCTCCCTCATCTTTGACCATCTTTATCTTGCTCCGAGTGGAAATGCATCCAATCT
 GGAGGAGCTGCAGGGCTCAGGAGTTGACTACATTTTAAATGTCACTAGAGAAATAGACAATTTTTCCCC
 GGCTTGTGGTACCATAACATCCGCGTGTACGATGAGGAGACCACAGACCTTCTTGCCACTGGAATG
 AAGCTTATCATTTATAAACAAGCGAAAAGGAATCATTCCAAGTGCCTGGTCCATTGCAAGATGGCGT
 CAGCCGATCTGCGTCCACAGTATTGCCTACGCCATGAAGGAGTTCGGCTGGCCCTGGAGAAAGCGTAT
 AACTACGTGAAGCAGAAACGTAGTATCACTCGGCCAACCGAGGCTTTATGAGGCAGCTGTCTGAGTACG
 AAGGCATCCTGGATGCAAGCAAACAGCGGCATAACAACTATGGCGCCAGCAGCCACAGATGACACCAT
 CGCAGAGCCAGTGAGTCTTGCCAGAGACCTTGACGGAGCCCTGGACGCTCAGCTGCCCTGTTGGAT



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GATACCACCCACCTGGGCTCCCGAGAAGTCTGGCCCCAGGAGGACCCGCTCTCCCCTGTTGTTTTCGAA
 GACTCTCGGACCCCTCCTCCTTCCCACCATGATGAAACGGGTGGCCTGGTCCACTTAGAGGATCTCGA
 GAAGGATGCTCTGTTAGAGGAGGAGGAGTCTCAGCCAGTGGAGGTGCACAAGCTGGTTCCAGCATCCCCAG
 GAAGGTGCCAGGCTGTGTGAAAAGGACGTAAAGAGGAACTGGAGTTTGGGAACCCAAACCCCGCAGTG
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 CACCCAGCTCGATAGAAGCTTGTCTGACCAGGAAAACCTAAATAACAACAACAGCAAGAGGAGCTGTCCC
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 TGCTATCTGCACCCAGCCAACCTTCTCCCCATGTCACGTCTTCCCAATGGCCACGCGAGCAGCAGG
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 GGAAGCCAGATGTCAGTGGCTCTGGAGCCGGGCTGCCCGGAACCACCAGCAAGCCTTCTAGAGCCTTC
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 CCAACTGCAGAAGGCAGGCTGGTCCGAAAGCACACCAAAGAGCTGGAGAGGTTGAAGAGCTGCCTTCA
 GACTACCAGCTGCCTGCAGGGACAGCGCCACCTGCAGGCTGGAGGCCAGCATCCCGGAGGAGGTTAGCC
 AGGAGCCCGCACACCCAGCCCTGTGCAGCCAAGCTGGGTCCGGAAGAACAGCCTGTAGGGGAAACCTTGCA
 GAAGAGCCCCACGTCTACCCTCCCCGTTTAGATCACACCAGTAACCTTCTCGAAGGACTTCTGAAGACC
 GTGTGTTACACCCACCTCCTCCTCCATCAGCTCCAACCTGACCCGGAGCTCCAGCAGCGACAGCATCC
 ACAGCGTCCGAGGGAAGCCTGGGCTGGTGAAGCAGCGGGCGCAGGAGATCGAGACGCGGCTGCGCCTGGC
 AGGCCTCACCGTGTGTCGCCGCTGAAAAGGTCCCATTCCTTCCAAGCTGGGAAGTCTCAACTTCTCC
 ACGGAGGACCTGTCCAGCGAGGCTGACACATCCACCATCGCTGACTCGCAGGACGCCAAGTGTGGTCTCT
 CCTCTTCTTCTTGCCTGAAACCCAGTCTGCGCCAAGGGACCCCGCTGCAACCTTAAATCATCAGGGAA
 ATCTGCCCCAGAACAACCTGAAAAGCCCGTCGAGGGTAAACAAAAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR221943 representing NM_198109
 Red=Cloning site Green=Tags(s)

MALVTLQRSPTPSAASSASNSELEAGSDEERKLNLSSESFFMVKGAALFLQQGNPQQQRSLQHPKH
 AGDLPQHLQVMINLLRCELDRIKLAVRLESVWTDVRYMVVYVTSGRQDTEENILLGVDFSSKESKSTIG
 MVLRLWSDTKIHLDDGGFVSVSTAGRMHIFKPVSVQAMWSALQVLHKACEVARRHNYFPGGVALIWATYY
 ESCISSEQSCINENWAMQDLESTRPDPALFVDKPTGERTERLIKAKLRSIMMSQDLENTSKEIRNEL
 EKQMNCLKEFKFIDNEMLLILGQMDKPSLIFDHLYLGSEWNASNLEELQSGVDYILNVTREIDNFFP
 GLFAYHNIRVYDEETDLLAHWNEAYHFINKAKRNHSHKLVHCKMGVSRASSTVIAAYAMKEFGWPLEKAY
 NYVKQKRSITRPNAGFMRQLSEYEGILDASKQRHNKLRWQQPTDDTIAEPSEFLPETLDGALDAQLPCLD
 DTHPGLPRSLAPGGPALPCCFRRLSDPLLLPHHDETGGLVHLEDLEKDALLEEEESQPVEVHKLQHPQ
 EGARLCEKDVKRKLDFGNSKPRSDSLPQVEELEKDGSPRTGRWRRASTQLDRSLLDQENLNNNSKRSCP
 DDLERDAMFGILSKVKPPYTSCADCMYPTAGGTPEAYMERHEDPSSSAICTQPTFLPHVTSPPMAHASSR
 SRAPERASGPANTSPFLLPAGSRKPDVSGSAGAAPEPPASLLEPSRETSKALPKSLQLKNPHCDKNAA
 NMEVSAKEEPSPKKDPKPAKDLRLFSNEAEKPTTNSYLMQHQESIQLQKAGLVRKHTKELERLKSLS
 DSPAACRDSATCRLEASIPPEGSQEPALPALCSQAGSEEQPVGGTLQKSPTSTLPRLDHTSNFSKDFLKT
 VCYTPTSSSISSNLTRSSSDSIHSVRGKPGLVKQRAQEIETRLRLAGLTVSSPLKRSHSLAKLGLSNLFS
 TEDLSSEADTSTIADSQDAKCGLSLSSFLPEPQSAPRDPAAATSKSSGKSAPEHLKSPSRVNS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9047_a09.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



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:
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

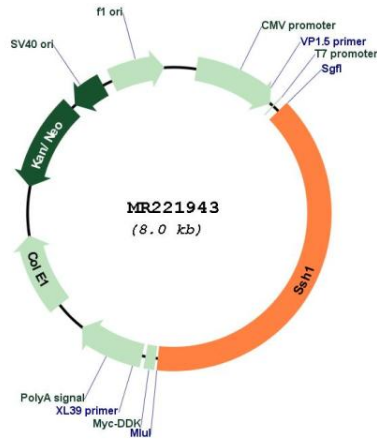
UniProt ID: [Q76I79](#)

Cytogenetics: 5 F

MW: 115.7 kDa

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]

Product images:



Circular map for MR221943