

Product datasheet for MR231800

Ssh2 (NM_001291190) Mouse Tagged ORF Clone

Product data:

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|--------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Ssh2 (NM_001291190) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Ssh2 |
| Synonyms: | mSSH-2L; SSH-2; SSH-2L |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |
| ORF Nucleotide Sequence: | >MR231800 representing NM_001291190 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGACCCTGAGCACTTTGGCAGGCGAAAGGAAAGCGCTCCCTGCCAGCACCTGCAGCCTCGGTGGCCCCG
ACATGATCCCCTACTTCTCTGCCAATGCGGTTCATCTCGCAGAACGCCATCAACCAGCTCATCAGCGAGAG
CTTCTTAACTGTCAAAGGTGCTGCCCTTTTTCTACCACGAGGGAATGGCTCGTCTACACCAAGAGTCAGC
CACAGACGCAACAAGCATGCAGGTGATCTCCAACAGCATCTTCAAGCAATGTTTCATATTACTCCGCCAG
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TTCAACTAATGGTAGACAAGACTGAAGAAAGCATTGCTCGGGAATGGATTTTTCTTCTAATGACAGC
ACTTGTACCATGGGCTTGGTCTTGCCTCTCTGGAGTGACACCCTAATTCATTTGGATGGTGGTGGGT
TCAGCGTATCAACAGATAACAGAGTTCACATATCAAACCTGTATCTGTGCAAGCAATGGTCTGCACT
ACAGAGTTTGACAAGGCTTGTGAAGTGCCAGAATGCATAACTACTATCCAGGCAGCCTTTTTCTCACT
TGGTGAGTTATTACGAGAGCCATCAACTCAGATCAGTCCTCAGTCAATGAGTGAATGCTATGCAGG
ATGTGCAGTCTCATCGGCTGACTCTCCAGCCCTTTCACAGACATACCAACTGAACGTGAGCGAACAGA
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GAATGCCTCGAAGTGTAGAGGACTTGCAAGACCGAGGGGTACGGTATATCTTGAATGTTACTCGAGAGATA
GATAAATCTTCCCTGGAGTCTTTGAGTATCATAACATTCGAGTATATGATGAAGAAGCAACAGATCTCC
TGGCTTACTGGAATGACACTTACAAATTCATCTCTAAAGCAAAGAAACATGGATCTAAATGTCTTGTGCA
CTGCAAAATGGGGTGAGTCGCTCAGCCTCCACTGTGATTGCCTATGCAATGAAGGAGTATGGATGGAAT
CTGGATCGAGCCTATGACTATGTGAAGGAAAGACGAACGGTGACCAAGCCTAACCCAGCTTCATGAGAC
AACTGGAAGAATACCAAGGGATCTTGTGGCCAGCAAACAGCGGATAACAAACTCTGGAGATCTCATTC
AGATAGTGACCTTTCAGACCACCACGAACCCATCTGTAACCTGGGCTCGAGCTCAACAAGAAGGAGATG
ACCACGTCAGCAGACCAGATCGCTGAGGTGAAGACTGTGGAGAACCTTGCTGCCATGCCTACCGTCTTTA



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TGGAACATGTGGTCCCACAAGATGCAAATCAGAAAGGACTACACACCAAAGAAAGAGTCATCTGCTTGGAGTTTCTTCAACAAGATTCGTGCCGGACAGATTGAAGATGAATTAATTTAAATGACATCAATGGATGCTCATCAGGGTGTGTCTCAGTGAATCAAACTCCCTCTTGACAACGCCATGCGTCTAAAGCCTTACTCCAACCTGGACAGGCCCCAGACATTGCCAACAAAGTCCCAGACTTAGCTGTGGAAGATCTGGAGACAGACGCCTGAAAGCAGACATGAATGTCCACCTACTGCCAATGGAAGAGTTGACATCTCGACTGAAAGACCTCCCCATGTCCACCTGATCTGGAGTCAACAAGCCCCAAGCCAGTTGCCAAGCTGCCATCTCAGATTTTAGTACAGATCGTATTGACTTTTTTAGTGCCTGGAGAAATTTGTAGAGCTTCTCAAGAAACCCGGTCTCGGTCTTTCTCACTCAAGGATAGAAGAATTAGGTGGAGGAAGGAGTGAGGGCTGTGTTTTGTCAGTATAGAAGTGGCAGCTTCAGAAATGGCAGCTGATGACCAGAGAAGCAGCTCTTTGAGTAATACGCCCCACGCTCTGAAGAGTCTTGTGGATGAGGACCAGTCGAAGGCAATCACCGAATTGTGAGCCAGACATCATGCAATCTCACTCAGAAAATGCAATTTTCAAGTCAAAGAAATTTGTGACTGAAATTTGAGTCCATTAGTCAAGGAGTTGGCAGTTTCAAGGAGACATCTCTCTAACCCTGCCACACCAAAGAAGACACCATTATGAGCTGCCCCCTGGAGAGGGTCCAGCCCTGAGAGCAAACCTGGACATTGGGAGCAGGATGAGAGTTTCTGTAGTGTCCAGCCAGAAGTCTAGAGACTCAGGGAAGTGTCCCCGGGAGGAAGGCTGTCTGACCACACTCATCCACAGCAGACTTGAAGAAGAAGAACCAGTTGAGGGGAACATGACTGGGGCCAGGGATGCACTCTGTGCTAAGTGGTCCCTGGTCTGTGAGGCGAGCCACCCTGGAGTTTGAAGAGCGCTTGGCACAAGAGCAAGAGAACCATGGTACAGCCTCTGACGGCCCCACATTATCCAATCGAAAAACTCTAAGAATGATTCTTGTGGCAGACTTAATGCCAAAATGAAAAAGTGTGAAACTACCCAGAACATTCATTTTTCTCAAAGAAGCCGAGCCGAGCAAGGGTAAAGGGAAATGCAGTGGTTCTGAAGCCGGATCACTATCCCACTGTGAGCGTAAATCCCATGCCAGACTGTGAGCTGTGGAGCATATTCTTGGCCGCTCCTCAGGACTGCCTAGGGTCAATAGTAGAAGTAAAGAAGCAGGAAGGAGACCTAAAGAAGCAGAGGGCTGTGGTTCCAAACCAGGAATGTACACACAGGCCATCCTTCTCCCCCTTCCAAGAAAATAGAAATCATTGAGTATACGCCGACAGTTACACTGTGGGTACACCGAGCCAGGAGGTGAGGCGACCCAGCAAAGAGGGTGAGAAAACAAGGACTGAGGAAAATGGAAGATGGAGCAGTCTACTACTATGTTTTGTGCGCTGGATGAAAATCTGAACAGGACTCTGGAGCCCAATCAAGTTTTCTGCATCCCCAAGTGTACCTCTGCCTCATTCTTCTCAGAGTGTGACAGGCCCGCTGACCCAAACCCTATGTTAAGTAGCCCGCAAGACAAAGGGGACTGCCATCCACACCCTTCAAGACAGCAGCACCTTTTGTGAGTGCAGTACCCAGGGAGCATCTTTCAGCTTGGATTATTTGCTTCCCCACTCTGTGGTTACCTGGAAGGCTGCACAGAGCAAAGCAGTGCCTGACAATGAACTGTCTCCAGAGCAGGCTAGCTGGGAGGACAGCCGGGGCATTCTCTCCAGTGGTAGTGAATGGCACACACATCTCCCCATTAACAAAGAACTGACCCGTCACCTGACCTAAGTTAATTAACAAACTGGTGCAGTGTGGTGTGTTACAGAAAAAACTGGACCCGTCACCTGAAGCCTGTAGAATCCACATAGTCTAGTAGTGAATAATAAGAGATCTCAGCCACAGCCGTGGTGTGGTGAAGGAGCATGCTAAAGAAATTGAGTCTCGAGTATCTCCAGGCAGGGTTTTCCAAAACATCCCAAATGAAGCGCTCAGTTCCCTTCCAAGTTGGGTTACCTGGACCTTTGTAAGACTACTTACCAGATAGAGAGCTTGTCTCCTCAGAATCCCTCATCTCAAATTTGCTTCAAGCCCTTCCCTCAGAACAGACTCAGGCATGCATGCTTGATGGCCATGAGCCCTCAGAAAGCGCAGGTGCCAGCAGAACCCACAGCCACCAAGTATTCTGTAGAGCACTCAAACATCAGAGTGTATTGTGCAGAGCAAACAGTGGAGAGGCCAGTGTGCAGTATGCCAAGAGTTTGGTTACAGTACAGCAGTGTGCTCCCCAAGCAAGACCAGAAATGACTAGTTCTGAAGGAGCCCTTCTTGTACAGACACAGGGTCTGCAGTACACAGGCCCTCTCCAGGGCTGGCTGTGGCAGCCCGTCAGCAACATGGCAGAATCACCCCTTAGAAGACTGAAAAGAGCAAATGATAAAAAACGGACAACCAACCCTTCTATAACACCATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTAA

Protein Sequence: >MR231800 representing NM_001291190
 Red=Cloning site Green=Tags(s)

MTLSTLAGERKALPASTCSLGGPDMIPYFSANAVISQNAINQLISESFLTVKGAALFLPRGNGSSTPRVS
 HRRNKHAGDLQQHLQAMFILLRPEDNIRLAVRLESTYQNRTRYMVVVSTNGRQDTEESIVLGMDFSSNDS
 TCTMGLVLPWSDTLIHLDDGGGFVSTDNRVHIFKPVSVQAMWSALQSLHKACEVARMHNYYPGSLFLT
 WVSYYESHINSQSSVNEWNAMQDVQSHRPDSPALFTDIPTERERTERLIKTKLREIMMQDLLENITSK
 IRTELEMQMVNCLREFKEFIDNEMIVILQMDSPQTQIFEHVFLGSEWNASNLEDLQNRGVRYILNVTREI
 DNFFPGVFEYHNIRVYDEEATDLLAYWNDTYKFIKAKKHGSKCLVHCKMGVSRSASTVIAYAMKEYGWN
 LDRAVDYVKERRVTKPNPFSMRQLEEQGILLASKQRHNKLWRSHSDSDLSDHHEPICKPGLLELNKKEM
 TTSADQIAEVKTVENLAAMPTVFMHVVPQDANQKGLHTKERVICLFFSSQEFRAQIEDELNLNDINGC
 SSGCCLSESKLPLDNCHASKALLQPGQAPDIANKFPDLAVEDLETDALKADMNVHLLPMEELTSRLKDL
 MSPDLESPSPQASCQAAISDFSTRIDFFSALEKFVELSQETRSRSFHSRRIEELGGGRSEGCRLSVIEV
 AAEMAADDQRSSSLNTPHASEESSVDEEDQSKAITELVSPDIIMQSHSENAISVKEIVTEIESISQGVG
 QVQLKGDILSNPCHTPKKSTIHELPLERVPAPEKPGHWEQDESFCSVQPELARDSGKCAPEEGCLTTHS
 STADLEEEEPVEGEHDWGPMMHSGAKWCPGSRVRRATLEFEERLRQEQENHGHTASAGPTLSNRKNSKNDSS
 VADLMPKWKSDETTPHESFFLKEAEPKSGKSGSEAGSLSHCERNPTMPDCELLEHHSPPAPQDCLGS
 DSRSKKQEGDLKQRAVVPNQECDTQAILLPLPKKIEIEYTPVTSLGHTEPGGEATPSKEGEKQGLRK
 VKMEQSI T MFCALDENLNRLEPSQVSLHPQVLP LPHSSSECDRPAADPNM LSSPQDKGDCPSTPFKTA
 PFVSCSTQGASFSLDYLLPHSVVHLEGCTEQSSATDNEL SPEQASWEDSRGHFLSSGSMMAHTSSPLTNE
 DL SLINKLGD SVGLQKLDPSPEACRIPHSSSENIRDL SHSRGVVKEHAKEIESRVIFQAGFKTSQM
 KRASLAKLGYLDLCKDYLDPRELVSSEPHLKLKLPQLRTDSGMHALMAHEPSESAGAQQNPQPTKYV
 EQLKTSECI VQSKPVERPSVQYAKEFGYSQQCLLPKARPELTSSEGLPLLQTQGLQYTPSPGLAVAPR
 QQHGRTHPLRRLKRANDKKRTTNPFYNTM

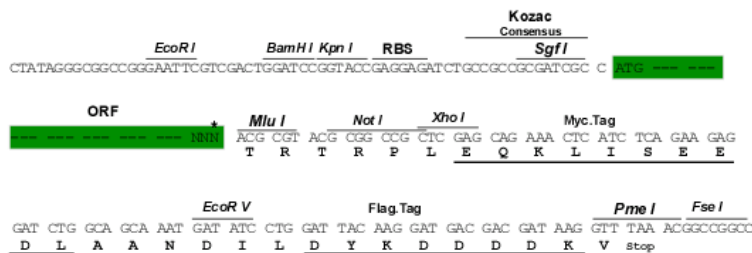
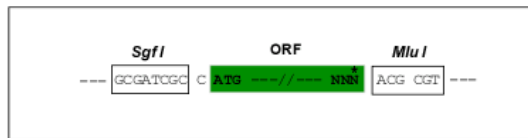
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

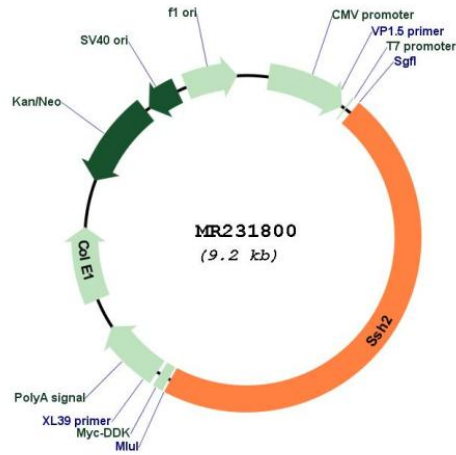
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001291190

ORF Size: 4287 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_001291190.1](#), [NP_001278119.1](#)

RefSeq Size: 9176 bp

RefSeq ORF: 4290 bp

Locus ID: 237860

UniProt ID: [Q5SW75](#)

Cytogenetics: 11 B5

MW: 159.3 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]