

Product datasheet for MC229589

Ssh2 (NM_001291190) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ssh2 (NM_001291190) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ssh2
Synonyms:	mSSH-2L; SSH-2; SSH-2L
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC229589 representing NM_001291190 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACCCTGAGCACTTTGGCAGGCGAAAGGAAAGCGCTCCCTGCCAGCACCTGCAGCCTCGGTGGCCCCG
ACATGATCCCCTACTTCTCTGCCAATGCGGTTCATCTCGCAGAACGCCATCAACCAGCTCATCAGCGAGAG
CTTCTTAACTGTCAAAGGTGCTGCCCTTTTTCTACCACGAGGGAATGGCTCGTCTACACCAAGAGTCAGC
CACAGACGCAACAAGCATGCAGGTGATCTCCAACAGCATCTTCAAGCAATGTTTCATATTACTCCGCCAG
AAGACAACATAAAGGCTGGCTGTAAGACTGGAAAGTACTTACAAAAACCGAACACGCTATATGGTCGTGGT
TTCAACTAATGGTAGACAAGACTGAAGAAAGCATTGCTCTGGGAATGGATTTTTCTTCTAATGACAGC
ACTTGTACCATGGGCTTGGTCTTGCCTCTCTGGAGTGACACCCTAATTCATTTGGATGGTGGTGGGT
TCAGCGTATCAACAGATAACAGAGTTCACATATCAAACCTGTATCTGTGCAAGCAATGGTCTGCACT
ACAGAGTTGCACAAGGCTTGTGAAGTGCCAGAATGCATAACTACTATCCAGGCAGCCTTTTTCTCACT
TGGTGAGTTATTACGAGAGCCATCAACTCAGATCAGTCCTCAGTCAATGAGTGAATGCTATGCAGG
ATGTGCAGTCTCATCGGCTGACTCTCCAGCCCTTTCCAGACATACCAACTGAACGTGAGCGAACAGAG
AAGGCTTATTAAGACTAAATTAAGGGAGATCATGATGCAAAAAGGATTTGGAGAATATCACCTCCAAGAG
ATACGCACGAGCTGGAGATGCAGATGGTGTGCAACTTGCAGAAATTTAAGGAATTCATAGATAATGAAA
TGATCGTGATCCTTGGTCCAGATGGACAGTCCCACACAGATATTTGAGCATGTATTCCTGGGCTCAGAATG
GAATGCCTCGAAGTCTAGAGGACTTGCAGAACCGAGGGGTACGGTATATCTTGAATGTTACTCGAGAGATA
GATAACTTCTCCCTGGAGTCTTTGAGTATCATAACATTCGAGTATATGATGAAGAAGCAACAGATCTCC
TGGCTTACTGGAATGACACTTACAAATTCATCTCTAAAGCAAAGAAACATGGATCTAAATGTCTTGTGCA
CTGCAAAATGGGGTGAGTCGCTCAGCCTCCACTGTGATTGCCTATGCAATGAAGGAGTATGGATGGAAT
CTGGATCGAGCCTATGACTATGTGAAGGAAAGACGAACGGTGACCAAGCCTAACCCAGCTTCATGAGAC
AACTGGAAGAATACCAAGGGATCTTGTGGCCAGCAAACAGCGGATAACAAACTCTGGAGATCTCATTC
AGATAGTGACCTTTCAGACCACCACGAACCCATCTGTAACCTGGGCTCGAGCTCAACAAGAAGGAGATG
ACCACGTCAGCAGACCAGATCGCTGAGGTGAAGACTGTGGAGAACCTTGCTGCCATGCCTACCGTCTTTA



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TGGAACATGTGGTCCCACAAGATGCAAATCAGAAAGGACTACACACCAAAGAAAGAGTCATCTGCTTGGAGTTTCTTCAACAAGATTCGTGCCGGACAGATTGAAGATGAATTAATTTAAATGACATCAATGGATGCTCATCAGGGTGTGTCTCAGTGAATCAAACTCCCTCTTGACAACGCCATGCGTCTAAAGCCTTACTCC AACCTGGACAGGCCCCAGACATTGCCAACAAAGTCCCAGACTTAGCTGTGGAAGATCTGGAGACAGACGC ACTGAAAGCAGACATGAATGTCCACCTACTGCCAATGGAAGAGTTGACATCTCGACTGAAAGACCTCCCC ATGTCACCTGATCTGGAGTCAACAAGCCCCAAGCCAGTTGCCAAGCTGCCATCTCAGATTTTAGTACAG ATCGTATTGACTTTTTTAGTCCCTGGAGAAATTTGTAGAGCTTCTCAAGAAACCCGGTCTCGGTCTTT TTCTCACTCAAGGATAGAAGAATTAGGTGGAGGAAGGAGTGAGGGCTGTGTTTTGTCAGTATAGAAGTG GCAGCTTCAGAAATGGCAGCTGATGACCAGAGAAGCAGCTCTTTGAGTAATACGCCCCACGCCTCTGAAG AGTCTTCTGTGGATGAGGACCAGTGAAGGCAATCACCGAATTGTGAGCCAGACATCATGCAATC TCACTCAGAAAATGCAATTTCACTCAAAGAAATTTGACTGAAATTTGAGTCCATTAGTCAAGGAGTTGGG CAGTTTCAAGTAAAAGGAGACATCTCTTAACCCATGCCACACCAAAGAAGACACCATTATGAGC TGCCCCGTGGAGAGGGTCCAGCCCTGAGAGCAAACCTGGACATTGGGAGCAGGATGAGAGTTTCTGTAG TGTCCAGCCAGAAGTCTAGAGACTCAGGGAAGTGTCCCGGAGGAAGGCTGTCTGACCACACTCA TCCACAGCAGACTTGAAGAAGAAGAACCAGTTGAGGGGAACATGACTGGGCCCAGGGATGCACTCTG GTGCTAAGTGGTCCCTGGGTCTGTGAGGCGAGCCACCCTGGAGTTTGAAGAGCGCTTGGCACAAGAGCA AGAGAACCATGGTACAGCCTCTGACGGCCCCACATTATCCAATCGAAAAACTCTAAGAATGATTCTTCT GTGGCAGACTTAATGCCAAAATGAAAAGTGTGAAACTACCCAGAACATTCATTTTTCTCAAAGAAG CCGAGCCGAGCAAGGGTAAAGGGAAATGCAGTGGTTCTGAAGCCGGATCACTATCCCACTGTGAGCGTAA TCCACCATGCCAGACTGTGAGCTGTGGAGCATATTCTTCCCGCTCCTCAGGACTGCCTAGGGTCA GATAGTAGAAGTAAAGAAGCAGGAAGGAGACCTAAAGAAGCAGAGGGCTGTGGTTCCAAACCAGGAATGTG ACACACAGGCCATCCTTCTCCCTTCCCAAGAAAATAGAAATCATTGAGTATACGCCGACAGTTACATC ACTGGGTCACACCGAGCCAGGAGGTGAGGCGACACCAGCAAAGAGGGTGAGAAAACAAGGACTGAGGAAA GTGAAGATGGAGCAGTCTACTACTATGTTTTGTGCGCTGGATGAAAATCTGAACAGGACTCTGGAGCCCA GTCAAGTTTTCTGCATCCCAAGTGTACCTCTGCCTCATTCTTCTCAGAGTGTGACAGGCCCGCTGA CCCAAACCCTATGTTAAGTAGCCCGAAGACAAAGGGGACTGCCATCCACACCCTTCAAGACAGCAGCA CCTTTTGTGAGTGCAGTACCCAGGAGCATCTTTCAGCTTGGATTATTTGCTTCCCACTCTGTGGTTC ACCTGGAAGGCTGCACAGAGCAAAGCAGTCCACTGACAAATGAACTGTCTCCAGAGCAGGCTAGCTGGGA GGACAGCCGGGGCATTCTCTCCAGTGGTAGTGAATGGCACACACATCTCCCACTTAACTAACGAA GACCTAAGTTAATTAACAAACTTGGTGCAGTGTGGTGTGTTACAGAAAAAACTGGACCCGTACCTG AAGCCTGTAGAATCCACATAGTCTAGTGTGAAATATAAGAGATCTCAGCCACAGCCGTGGTGTGGT GAAGGAGCATGCTAAAGAAATTGAGTCTCGAGTATCTCCAGGCAGGGTTTTCCAAAACATCCCAAATG AAGCGCTCAGCTTCCCTTCCAAGTGGGTTACCTGGACCTTTGTAAGACTACTTACCAGATAGAGAGC TTGTCTCCTCAGAATCCCTCATCTCAAATTTGCTTCCAGCCCTTCCCTCAGAACAGACTCAGGCATGCATGC CTTGATGGCCATGAGCCCTCAGAAAGCGCAGGTGCCAGCAGAACCCACAGCCACCAAGTATTCTGTA GAGCAACTCAAAACATCAGAGTGTATTGTGAGAGCAAACAGTGGAGAGGCCAGTGTGCAGTATGCCA AAGAGTTTGGTTACAGTACAGCAGTGTGCTCCCAAGGCAAGACCAGAAATGACTAGTTCTGAAGGAGG CCTTCTTTGCTACAGACACAGGGTCTGCAGTACACAGGCCCTCTCCAGGGCTGGCTGTGGCAGCCCGT CAGCAACATGGCAGAACTCACCCCTTAGAAGACTGAAAAGAGCAAATGATAAAAAACGGACAACCAACC CTTCTATAACCCATGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: NM_001291190
 Insert Size: 4290 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001291190.1</u> , <u>NP_001278119.1</u>
RefSeq Size:	9176 bp
RefSeq ORF:	4290 bp
Locus ID:	237860
UniProt ID:	<u>Q5SW75</u>
Cytogenetics:	11 B5
Gene Summary:	<p>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.</p> <p>[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and 5' coding region, uses an alternate start codon, and uses an alternate splice site in the central coding region, compared to variant 1. The encoded isoform (2) is longer and has a distinct N-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>