

Product datasheet for **RC212739**

SSH2 (NM_033389) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SSH2 (NM_033389) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: SSH2
Synonyms: SSH-2; SSH-2L
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC212739 representing NM_033389
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGGATCGCC

ATGGCTTTGGTCACGGTCCAGCGGTACCTACCCACAGCACCTCCAGCCCCTGCGCCTCGGAGGCAG
ACAGTGGGAGGAAGAATGCCGGTCACAGCCCAGGAGCATCAGCGAGAGCTTTCTAACTGTCAAAGGTGC
TGCCCTTTTTCTACCACGGGAAATGGCTCATCCACCAAGAATCAGCCACAGACGGAACAAGCATGCA
GGCGATCTCCAACAGCATCTCCAAGCAATGTTCACTTTACTCCGCCAGAAGACAACATCAGACTGGCTG
TAAGACTGAAAGTACTTACCAGAATCGAACACGCTATATGGTAGTGGTTTCAACTAATGGTAGACAAGA
CACTGAAGAAAGCATCGTCCTAGGAATGGATTTCTCCTCTAATGACAGTAGCACTTGTACCATGGGCTTA
GTTTTGCCTCTCTGGAGCGACACGCTAATTCATTTGGATGGTGTGGTGGTTTCAGTGTATCGACGGATA
ACAGAGTTCACATATTCAAACCTGTATCTGTGCAGGCAATGTGGTCTGCACTACAGAGCTTACACAAGGC
TTGTGAAGTCGCCAGAGCGCATAACTACTACCCAGGCAGCCTATTTCTCACTTGGGTGAGTTATTATGAG
AGCCATATCAACTCAGATCAATCCTCAGTCAATGAATGGAATGCAATGCAAGATGTACAGTCCCACCGGC
CCGACTCTCCAGCTCTCTCACCGACATACCTACTGAACGTGAACGAACAGAAAGGCTAATTAACCAAA
ATTAAGGGAGATCATGATGCAGAAGGATTTGGAGAATATTACATCCAAAGAGATAAAGAACAGAGTTGGAA
ATGCAAATGGTGTGCACTTGGCGGAATCAAGGAATTTATAGACAATGAAATGATAGTATCCTTGGTCA
AAATGGATAGCCCTACACAGATATTTGAGCATGTGTTCCCTGGGCTCAGAATGGAATGCCTCCAACCTAGA
GGACTTACAGAACCAGGGGTACGGTATATCTTGAATGTCACTCGAGAGATAGATAAATCTTCCCAGGA
GTCTTTGAGTATCATAACATTCCGGTATATGATGAAGAGGCAACGGATCTCCTGGGCTACTGGAATGACA
CTTACAAATTCATCTCTAAAGCAAAGAAACATGGATCTAAATGCCTTGTGCACTGCAAAAATGGGGGTGAG
TCGCTCAGCCTCCACCGTATTGCCTATGCAATGAAGGAATATGGCTGGAATCTGGACCGAGCCTATGAC
TATGTGAAAGAAAGACGAACGGTAACCAAGCCCAACCAAGCTTCATGAGACAACGGAAGAGTATCAGG
GGATCTTGCTGGCAAGCAAACAGCGGCATAACAACTATGGAGATCTCATTGAGATAGTGACCTCTCAGA
CCACCACGAACCCATCTGCAAACCTGGGCTAGAACTCAACAAGAAGGATATCACCACTCAGCAGACCAG



ATTGCTGAGGTGAAGACCATGGAGAGTCACCCACCCATACCTCCTGTCTTTGTGGAACATATGGTCCCAC
AAGATGCAAAATCAGAAAGGCTGTGTACCAAAGAAAGAATGATCTGCTTGGAGTTTACTTCTAGGGAATT
TCATGCTGGACAGATTGAGGATGAATTAACCTTAAATGACATCAATGGATGCTCATCAGGGTGTGTCTG
AATGAATCAAAATTTCTCTTGACAATTGCCATGCATCCAAGCCTTAATTCAGCCTGGACATGTCCCAG
AAATGGCCAACAAGTTCCAGACTTAACAGTGGAAAGATTTGGAGACAGATGCACTGAAAGCAGACATGAA
TGTCCACCTACTGCCTATGGAAGAATTGACATCTCCACTGAAAGACCCCCCATGCCCCGTGACCTGAG
TCACCAAGCCCCCAACCCAGTTGCCAGACTGAAATCTCAGATTTTACAGTACAGATCGCATGACTTTTTTA
GTGCCCTAGAGAAGTTTGTGGAGCTCTCCAAGAAACCCGGTCACGATCTTTTTCCATTCAAGGATGGA
GGAAGTGGTGGAGGAAGGAATGAGAGCTGTCTGACTGTCAGTGGTAGAAGTAGCCCTTCCAAGTGACA
GCTGATGACCAGAGAAGCAGCTCTTTGAGTAATACTCCCCATGCATCAGAAGAATCTTCAATGGATGAGG
AACAGTCAAAGGCAATTTCAGAAGTGGTCCAGCCAGACATCTTATGCAGTCTCACTCGGAAAATGCAAT
TTCAGTCAAAGAAATTTGACTGAAATTTGAGTCCATCAGTCAAGGAGTTGGGCAGATTCACTGAAAGGA
GACATCTTACCCAACCCATGCCATACACCAAAGAAGAACAGCATCCATGAGCTGCTCCTTGGAGGGCCC
AGACTCCAGAGAACAACCTGGACATATGGAGCAAGATGAGGACTCCTGCACAGCCAGCCTGAACTAGC
CAAAGACTCAGGGATGTGCAACCCAGAAGGCTGCCTAACACACACTCATCTATAGCAGACTTGGAAAGAA
GGGAACCCAGCTGAGGGGGAACAAGAGCTCCAGGGCTCAGGGATGCACCCAGGTGCAAGTGGTACCCTG
GGTCTGTGAGGCGAGCCACCTTGGAGTTCGAAGAGCGCTTACGGCAGGAGCAAGAGCATCATGGTGTCTG
CCCAACATGTACCTCATTGTCCACTCGTAAGAATTCAAAGAATGATTCTTCTGTGGCAGACCTAGACCA
AAAGGGAAAAGTGATGAAGCCCCCAGAACATTCATTTGTCTCAAGGAACAGAAATGAGCAAAGGCA
AAGGGAATACAGTGGTCTGAGGCTGGCTCACTGTCCCATTCTGAGCAGAATGCCACTGTTCCAGCTCC
CAGGGTGTGGAGTTTGACCACTTGCCAGATCCTCAGGAGGGCCAGGGTCACTACTGGAACACAGCAG
GAAGGACTCCTGAAGGATCTGAGGACTGTGATTCATACCAGGAGTCTGAAACACAAGCAGTCCCTCTTC
CCCTTCCAAGAGGGTAGAAATCATTGAATATACCCACATAGTTACATCACCCAATCACACTGGGCCAGG
GAGTGAATAGCCACCAGTGAGAAGAGCGGAGAGCAAGGGCTGAGGAAAGTGAACATGGAAAAATCTGTC
ACTGTGCTCTGCACACTGGATGAAAAATCTAAACAGGACTCTGGACCCCAACCCAGGTTTCTCTGCACCCC
AAGTGCTACCTCTGCCTCATTCTTCTCCCTGAGCACAACAGACCCACTGACCATCCAACCTCCATCCT
GAGTAGCCCTGAAGACAGAGGCAGCAGCCTGTCCACAGCCCTGGAGACAGCAGCACCTTTTGTGAGTCA
ACAACCCATTTACTGTCTGCCAGTTTGATTACCTGCATCCCCAGACTATGGTTCACCTGGAGGGCTTCA
CAGAGCAGAGCAGCACTACAGATGAGCCCTCTGCAGAACAGGTTAGCTGGGAAGAAAGTCAAGGAGGCC
TCTCTCCAGTGGCAGTGGTGCATATAAAGACTCCCAGCTAAGTAGCGCAGACCTAAGTTAATTAGC
AAACTTGGTGACAACACTGGGGAGTTACAGGAGAAAATGGACCCATTGCCTGTAGCTGTGACTCCCAC
ATAGCTCTAGTAGTGAACATAAAGAGTCTCAGCCACAGCCCCGGTGTGGTGAAGGAGCGTGTAAAGA
AATCGAGTCTCGAGTGGTTTTCCAGGCAGGGCTCACCAAACCATCCCAAATGAGGCGCTCAGCTTCTCTC
GCCAAATAGGTTACTTGGACCTCTGTAAGACTGCTTACCAGAGAGGGAGCCTGCCTCCTGTGAATCCC
CTCATCTCAAAGTCTTCCAGCCTTCTCAGAACAGACTCAGGCATGCACGCGATGGAGGACCAAGAGTC
CCTAGAAAACCCAGGTGCCCCCCACAACCCAGAGCCCAAGTCTTTGTAGAACAACTCACAACAACA
GAGTGTATTGTGACAGCAAGCCAGTGGAGAGGGCCCTTGTGAGTATGCCAAAGAAATTTGGTCTAGTC
AGCAGTATTTGCTCCCCAGGGCAGGACTTGAATTGACTAGTCTGAAGGAGGCCTTCCCCTGCTACAGAC
CCAGGGACTGCAGTGTGCATGCCAGCTCCAGGGCTGGCCGTGGCACCCCGTCAAGCAACACGGCAGAACT
CACCCCTTAGGAGACTGAAAAAGGCAAATGACAAAAACGGACAACCAACCCCTTCTATAATACCATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC212739 representing NM_033389
 Red=Cloning site Green=Tags(s)

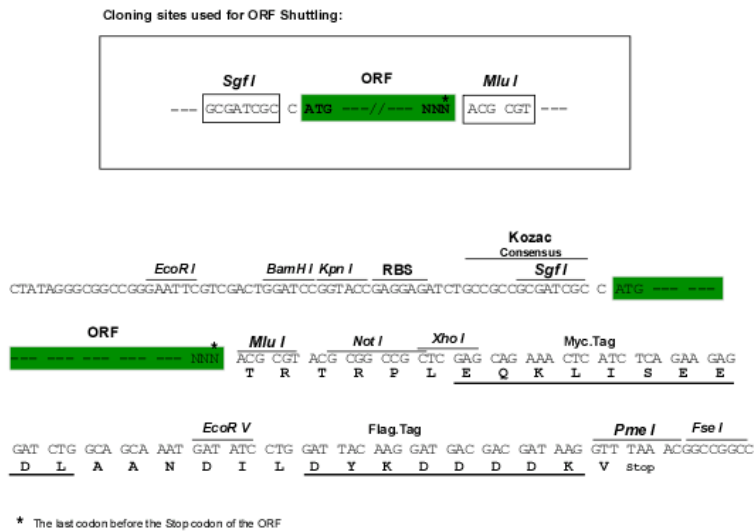
MALVTVQRSPSTTSSPCASEADSGEEECRSQPRISIESFLT VKGAALFLPRNGSSTPRISHRRNKHA
 GD LQQHLQAMFILLRPEDNIRLAVRLESTYQNRTRYM VVVSTNGRQDTEESIVLGMDFSSNDSSTCTMGL
 VLPLWSDTLIHL DGDGGF SVSTDNRVHIFKPVSVQAMWSALQSLHKACEVARAHNYYPGSLFLT WVSYYE
 SHINSQSSVNEWNAMQDVQSHRPD SPALFTDIPTERERTERL IKTKLREIMMQKDLENITSKEIRTELE
 MQMVCNLR EFKEFIDNEMIVILGQMDSPTQIFEHVFLGSEWNASNLEDLQNRGVRYILNVTREIDNFFPG
 VFEYHNI R VYDEEATDLLAYWNDTYK FISKAKKHGSKCLVHCKMGVSRSASTVIAYAMKEYGWNLDRAYD
 YYKERRTVTKPNPSFMRQLEEYQ GILLASKQRHNKLRSHSDSDLSDHHEPICKPGLELNK KDITTSADQ
 IAEVKTME SHPPIPPVFVEHMPQDANQKGLCTKERMICLEFTSREFHAGQIEDELNLNDINGCSSGCCCL
 NESKFPLDNCHASKALIQGHVPEMANKFPDLTVEDLET DALKADMNVHLLPMEELT SPLKDPMPSPDPE
 SPSQPSCQTEISDFSTDRIDFFSALEKVELSQETRSRSF SHSRMEELGGGRNESCRLSVVEVAPSKVT
 ADDQRSSSLNTPHASEESSMDEEQSKAISELVSPDIFMQSHSENAISVKEIVTEIESISQGVGQIQ LKG
 DILPNPCHTPKKN S IHELLL ERAQTPENKPGHMEQDEDSCTAQPELAKDSGMCNPEGCLTTHSS IADLEE
 GEPAEGEQELQSGMHPGAKWYPGSVRRATLEFEERLRQE QEHGAAPTCTSLSTRKNSKNDS SVADLAP
 KGKSD EAPPEHSFVLKEPEMSKGGKYS GSEAGSLSHSEQNATVPAPRVLEFDHLPDPQEGPGSDTGTQQ
 EGV LKDLRTVIPYQES ETQAVPLPLPKRVEIIEYTHIVTSPNHTGPGSEIATSEKSGEQGLRKVNMEKSV
 TVLCTLDENLNRTLDPNQVSLHPQVLP LPHSSSPEHNRPTDHPTSILSSPEDRGSSSLSTALETAPFVSH
 TTHLLSASLDY LHPQTMVHLEGFTEQSSTTDEPSAEQVSWEESQESPLSSGSEVPYKDSQLSSADLSLIS
 KLGDNTGELQE KMDPLPVACRLPHSSSEN IKSLSHSPGVVKERAKEIESRVVFQAGLTKPSQMRRSASL
 AKLGYLDLCKDCLPEREPASCESPHL KLLQPFLRTDSGMHAMEDQESLENPGAPHNPEPTKSFVEQLTTT
 ECIVQSKPVERPLVQYAK EFGSSQQYL LPRAGLELTSSEGLPVLQ TQGLQCACPAPGLAVAPRQQHGR T
 HPLRRLKKANDKKRTTNP FYNTM

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8115_a04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_033389

ORF Size: 4269 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_033389.2](#), [NP_203747.2](#)

RefSeq Size: 9166 bp

RefSeq ORF: 4272 bp

Locus ID: 85464

UniProt ID: [Q76I76](#)

Cytogenetics: 17q11.2

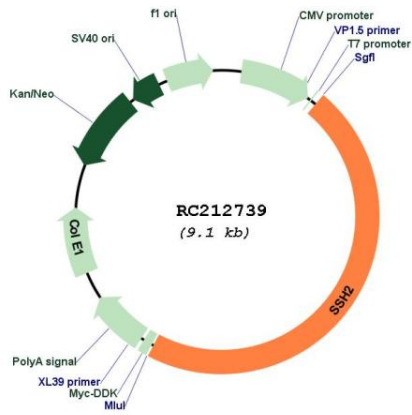
Protein Families: Druggable Genome, Phosphatase

Protein Pathways: Regulation of actin cytoskeleton

MW: 158 kDa

Gene Summary: This gene encodes a protein tyrosine phosphatase that plays a key role in the regulation of actin filaments. The encoded protein dephosphorylates and activates cofilin, which promotes actin filament depolymerization. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]

Product images:



Circular map for RC212739