

## Product datasheet for **RC240151**

### SSH2 (NM\_001282129) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SSH2 (NM\_001282129) 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:** >RC240151 representing NM\_001282129  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTTTGGTCACGGTCCAGCGGTACCTACCCACGACCACCTCCAGCCCCTGCGCCTCGAGCTCTC  
ATTTGGAAGACAGTGAATCAGCAGCATTACTTTGCTGTGAATGTGAAGAATCAGAAATCTTTACTGATTC  
CAATGAGGCAGACAGTGGGGAGGAAGAATGCCGGTACAGCCCAGGAGCATCAGCGAGAGCTTTCTAACT  
GTCAAAGGTGCTGCCCTTTTCTACCACGGGAAATGGCTCATCCACCAAGAATCAGCCACAGACGGA  
ACAAGCATGCAGGCGATCTCCAACAGCATCTCCAAGCAATGTTTCACTCCGCCAGAAGACAACAT  
CAGGCTGGCTGTAAGACTGGAAAGTACTTACCAGAATCGAACACGCTATATGGTAGTGGTTCAACTAAT  
GGTAGACAAGACTGAAGAAAGCATCGTCTTAGGAATGGATTTCTCCTCTAATGACAGTAGCACTTGTA  
CCATGGGCTTAGTTTGCCTCTCTGGAGCGACACGCTAATTCATTTGGATGGTGTGGTGGGTTCACTGT  
ATCGACGGATAACAGAGTTACATATCAAACCTGTATCTGTGCAGGCAATGTGGTCTGCACTACAGAGC  
TTACACAAGGCTTGTGAAGTCGCCAGAGCGCATAACTACTACCCAGGCAGCCTATTTCTCACTGGGTGA  
GTTATTATGAGAGCCATATCAACTCAGATCAATCCTCAGTCAATGAATGGAATGCAATGCAAGATGTACA  
GTCCCACCGCCCGACTCTCCAGCTCTCTTACCAGACATACCTACTGAACGTGAACGAACAGAAAGGCTA  
ATTAACCAAAATTAAGGGAGATCATGATGCAGAAGGATTTGGAGAATATTACATCCAAAGAGATAAGAA  
CAGAGTTGGAAATGCAAATGGTGTGCAACTTCCGGGAATTCAGGAATTTATAGACAATGAAATGATAGT  
GATCCTTGGTCAAATGGATAGCCCTACACAGATATTTGAGCATGTGTTCTGGGCTCAGAATGGAATGCC  
TCCAACTTAGAGGACTTACAGAACCAGGGGTACGGTATATCTTGAATGCACTCGAGAGATAGATAACT  
TCTTCCCAGGAGTCTTTGAGTATCATAACATTCGGGTATATGATGAAGAGGCAACGGATCTCCTGGCGTA  
CTGGAATGACACTTACAAATTCATCTCTAAAGCAAAGAAACATGGATCTAAATGCCTTGTGCACTGCAAA  
ATGGGGGTGAGTCGCTCAGCCTCCACCGTATTGCCTATGCAATGAAGGAATATGGCTGGAATCTGGACC  
GAGCCTATGACTATGTGAAAGAAAGACGAACGGTAACCAAGCCCAACCAAGCTTCATGAGACAACCTGGA  
AGAGTATCAGGGATCTTGTGCAAGCAAACAGCGGCATAACAACTATGGAGATCTCATTGAGATAGT



[View online »](#)

GACCTCTCAGACCACCACGAACCCATCTGCAAACCTGGGCTAGAACTCAACAAGAAGGATATCACCACCT  
CAGCAGACCAGATTGCTGAGGTGAAGACCATGGAGAGTCACCCACCCATACCTCTGTCTTTGTGGAACA  
TATGGTCCCACAAGATGCAAATCAGAAAGGCCTGTGTACCAAAGAAAGAAATGATCTGCTTGGAGTTTACT  
TCTAGGGAATTTTCATGCTGGACAGATTGAGGATGAATTAACCTTAAATGACATCAATGGATGCTCATCAG  
GGTGTGTCTGAATGAATCAAAATTTCTCTTGACAATTGCCATGCATCCAAAGCCTTAATTCAGCCTGG  
ACATGTCCCAGAAATGGCCAACAAGTTCCAGACTTAACAGTGAAGATTGGAGACAGATGCACATGAAA  
GCAGACATGAATGTCCACTACTGCCTATGGAAGAATTGACATCTCCACTGAAAGACCCCCCATGTCCC  
CTGATCCTGAGTCACCAAGCCCCAACCCAGTTGCCAGACTGAAATCTCAGATTTTCAGTACAGATCGCAT  
TGACTTTTTTAGTGCCCTAGAGAAGTTTGTGGAGCTCTCCAAGAAACCCGGTACAGATCTTTTTCCCAT  
TCAAGGATGGAGAACTGGGTGGAGGAAGGAATGAGAGCTGTCGACTGTCAGTGGTAGAAGTAGCCCTT  
CCAAAGTGACAGCTGATGACCAGAGAAGCAGCTCTTTGAGTAATACTCCCATGCATCAGAAGAATCTTC  
AATGGATGAGGAACAGTCAAAGGCAATTCAGAACTGGTCAGCCAGACATCTTCATGCAGTCTCACTCG  
GAAAATGCAATTTTCAGTCAAAGAAATTGCTACTGAAATGAGTCCATCAGTCAAGGAGTTGGGCAGATTC  
AACTGAAAGGAGACATCTTACCAACCCATGCCATACACCAAAGAAGAACAGCATCCATGAGCTGCTCCT  
TGAGAGGGCCAGACTCCAGAGAACAACTGGACATATGGAGCAAGATGAGGACTCCTGCACAGCCAG  
CCTGAACTAGCCAAAGACTCAGGGATGTGCAACCCAGAAGGCTGCCTAACACACACTCATCTATAGCAG  
ACTTGGAAGAAGGGGAACCAGCTGAGGGGGAACAGAGCTCCAGGGCTCAGGGATGCACCCAGGTGCCAA  
GTGGTACCCTGGGTCTGTGAGGCGAGCCACCTTGGAGTTCGAAGAGCGCTTACGGCAGGAGCAAGAGCAT  
CATGGTGTGCCCAACATGTACCTCATTGTCCACTCGTAAGAATTCAAAGAATGATTCTTCTGTGGCAG  
ACCTAGCACAAAAGGGAAAAGTGATGAAGCCCCCAGAACATTCATTTGTCTCAAGGAACCAGAAAT  
GAGCAAAGGCAAAGGAAATACAGTGGGTCTGAGGCTGGCTCACTGTCCCATTCTGAGCAGAATGCCACT  
GTTCCAGCTCCCAGGGTCTGGAGTTGACCACCTGCCAGATCCTCAGGAGGGCCAGGGTCAGACTG  
GAACACAGCAGGAAGGAGTCTGAAGGATCTGAGGACTGTGATTCATACCAGGAGTCTGAAACACAAG  
AGTCCCTCTTCCCCTTCCAAGAGGGTAGAAATCATTGAATATACCCACATAGTTACATACCCCAATCAC  
ACTGGGCCAGGGAGTGAATAGCCACCAGTGAGAAGAGCGGAGAGCAAGGGCTGAGGAAAGTGAACATGG  
AAAAATCTGCTACTGTGCTCTGCACACTGGATGAAAATCTAAACAGGACTCTGGACCCCAACCAGGTTTC  
TCTGCACCCCAAGTGCTACCTCTGCCTCATTCTTCTCCCCTGAGCACAACAGACCCACTGACCATCCA  
ACCTCCATCCTGAGTAGCCCTGAAGACAGAGGCAGCAGCCTGTCCACAGCCCTGGAGACAGCAGCACCTT  
TTGTGAGTACATAACCCATTTACTGTCTGCCAGTTGGATTACCTGCATCCCCAGACTATGGTTACCT  
GGAGGGCTTACAGAGCAGAGCAGCACTACAGATGAGCCCTCTGCAGAACAGGTTAGCTGGGAAGAAAGT  
CAGGAGAGCCCTCTCCAGTGGCAGTGAAGTGCATATAAGGACTCCCAGCTAAGTAGCGCAGACCTAA  
GTTAATTAGCAAACCTGGTGACAACACTGGGGAGTTACAGGAGAAAATGGACCCATTGCCTGTAGCCTG  
TCGACTCCACATAGCTCTAGTAGTGAACAATAAAGAGTCTCAGCCACAGCCCCGGTGTGGTGAAGGAG  
CGTGCTAAAGAAATCGAGTCTCGAGTGGTTTTCCAGGCAGGGCTCACAAACCATCCCAATGAGGCGCT  
CAGCTTCTCTCGCCAAATTAGGTTACTTGGACCTCTGTAAGACTGCTTACCAGAGAGGGAGCCTGCCTC  
CTGTGAATCCCCTCATCTCAAACCTGCTTCCAGCCTTCTCAGAACAGACTCAGGCATGCACGCGATGGAG  
GACCAAGAGTCCCTAGAAAACCCAGGTGCCCCCAACCCAGAGCCACCAAGTCTTTGTAGAACAAC  
TCACAACAACAGAGTGTATTGTGCAGAGCAAGCCAGTGGAGAGGCCCTTGTGCAGTATGCCAAAGAAAT  
TGTTTCTAGTCAGCAGTATTTGCTCCCCAGGGCAGGACTTGAATTGACTAGTTTGAAGGAGGCCCTTCCC  
GTGCTACAGACCCAGGGACTGCAGTGTGCATGCCAGCTCCAGGGCTGGCCGTGGCACCCGTGAGCAAC  
ACGGCAGAACTACCCCTTAGGAGACTGAAAAGGCAAATGACAAAAACGGACAACCAACCCCTTCTA  
TAATACCATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC240151 representing NM\_001282129  
 Red=Cloning site Green=Tags(s)

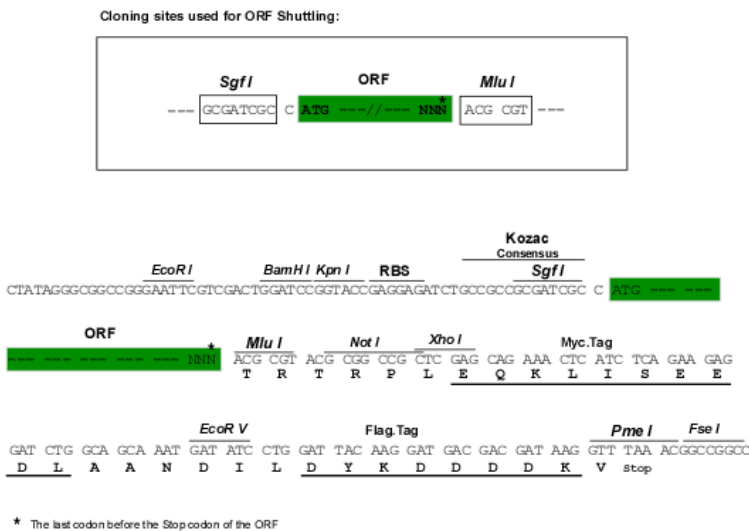
MALVTVQRSPSTPSTTSSPCASSHLEDSESAALLCCECEESEIFTDSEADSSEEECRSQPRSESIFLT  
 VKGAALFLPRNGSSTPRISHRRNKHAGDLQQHLQAMFILLRPEDNIRLAVRLESTYQNRTRYMVVSTN  
 GRQDTEESIVLGMDFSSNDSSTCTMGLVPLWSDTLIHLDDGGFVSTDNRVHIFKPVSVQAMWSALQS  
 LHKACEVARAHNYYPGSLFLTWVSYYESHINSQSSVNEWNAMQDVQSHRDPDSPALFTDIPTERERTERL  
 IKTKLREIMMQDLENITSKEIRTELEMQVCNLRKFKEFIDNEMIVILGQMDSPQIFEHVFLGSEWNA  
 SNLEDLQNRGVRYILNVTREIDNFFPGVFYHNIIRVYDEATDLLAYWNDTYKFIKAKKHGSKCLVHCK  
 MGVSRASSTVIAYAMKEYGWNLDRAYDYKERRTVTKPNPFSMRQLEEQGILLASKQRHNKLWRSHSDS  
 DLSDHHEPICPKGLELNKKDITTSADQIAEVKTMESHPPIPPVFEHMVPQDANQKGLCTKERMICLEFT  
 SREFHAGQIEDELNLNDINGCSSGCCLNESKFPLDNCHASKALIQPGHVP EMANKFPDLTVEDLETDAK  
 ADMNVHLLPMEELTSPLKDPPMSPDPESPSPQPSCQTEISDFSTDRIDFFSALEKFVELSQETRSRFSH  
 SRMEELGGGRNESCRLSVVEVAPSKVTADDQRSSSLNTPHASEESSMDEEQSKAISELVSPDIFMQSHS  
 ENAIVSKEIVTEIESISQGVGQIQKGDILPNPCHTPKKNISHELLLERAQTPENKPGHMEQDEDSCTAQ  
 PELAKDSGMCNPEGCLTTHSSSIADLEEGERAEQEQLQSGMHPGAKWYPGSVRRATLEFEERLRQEQEH  
 HGAAPTCTSLSTRKNSKNDSSVADLAPKGSDEAPPEHSFVLKEPEMSKGGKYSGSEAGSLSHSEQNAT  
 VPAPRVLEFDHLPDPQEGPGSDTGTQQEGVLKDLRTVIPYQESQAVPLPLPKRVEII EYTHIVTSPNH  
 TGPGEIATSEKSGEQGLRKVNMEKSVTVLCTLDENLNRTLDPNQVSLHPQVLPPLPHSSSPEHNRPDHP  
 TSILSSPEDRGSSSLSTALETAAFPVSHTHLLSASLDYLHPQTMVHLEGFTEQSSSTDEPSAEQVSWEES  
 QESPLSSGSEVPYKDSQLSSADLSLISKLDNTGELQEKMDPLPVACRLPHSSSENISLSHSPGVVKE  
 RAKEIESRVVFQAGLTKPSQMRRSASLAKLGYLDLCKDCLPEREPASCEPHLKLQPFLLRSDGMHAME  
 DQESLENPGAPHNPEPTKSFVEQLTTTECIVQSKPVERPLVQYAKEFGSSQYLLPRAGLELTSSEGLP  
 VLQTQLQCACPAPGLAVAPRQQHGRTHPLRRLKKANDKKRTTNPFYNTM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_001282129

ORF Size: 4350 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](mailto: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\\_001282129.2](#)

**RefSeq Size:** 9493 bp

**RefSeq ORF:** 4353 bp

**Locus ID:** 85464

**UniProt ID:** [Q76I76](#)

**Cytogenetics:** 17q11.2

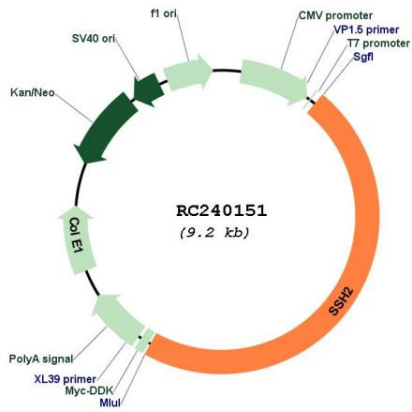
**Protein Families:** Druggable Genome, Phosphatase

**Protein Pathways:** Regulation of actin cytoskeleton

**MW:** 161.6 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 RC240151