

Product datasheet for SC104464

SSH2 (NM_033389) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SSH2 (NM_033389) Human Untagged Clone
Tag:	Tag Free
Symbol:	SSH2
Synonyms:	SSH-2; SSH-2L
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC104464 sequence for NM_033389 edited (data generated by NextGen Sequencing)

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ATGGCTTTGGTCACGGTCCAGCGGTACCTACCCAGCACCACCTCCAGCCCCTGCGCC
TCNAGGCGAGACAGTGGGGAGGAAGAATGCCGGTCACAGCCCAGGAGCATCAGCGAGAGC
TTTCTAACTGTCAAAGGTGCTGCCTTTTTCTACCACGGGAAATGGCTCATCCACCA
AGAATCAGCCACAGACGGAACAAGCATGCAGGCGATCTCCAACAGCATCTCCAAGCAATG
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CAGAATCGAACACGCTATATGGTAGTGGTTTCAACTAATGGTAGACAAGACTGAAGAA
AGCATCGTCTAGGAATGGATTTCTCTCTAATGACAGTAGCACTTGTACCATGGGCTTA
GTTTTGCCTCTCTGGAGCGACACGCTAATTCATTTGGATGGTGATGGTGGGTTTCAGTGA
TCGACGGATAACAGAGTTCACATATTCAAACCTGTATCTGTGCAGGCAATGTGGTCTGCA
CTACAGAGCTTACACAAGGCTTGTGAAGTCGCCAGAGCGCATAACTACTACCCAGGCAGC
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CCACCCATACCTCCTGTCTTTGTGGAACATATGGTCCCACAAGATGCAAATCAGAAAGGC
CTGTGTACCAAAGAAAGAATGATCTGCTTGGAGTTACTTCTAGGGAATTCATGCTGGA
CAGATTGAGGATGAATTAACCTAAATGACATCAATGGATGCTCATCAGGGTGTGTCTG
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CAGTGTGCATGCCAGCTCCAGGGCTGGCCGTGGCACCCTGTCAGCAACACGGCAGAACT
CACCCCTTAGGAGACTGAAAAAGGCAATGACAAAAAACGGACAACCAACCCCTTCTAT
AATACCATGTGA

Clone variation with respect to NM_033389.2
63 g=>n;273 a=>g

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_033389 unedited
 GCACGAGGCCACCCCGCACCCCTTTCCCCATCCCGGCTCCGTCACCCTCCCGTCCCCAC
 ACTCAGGACAAGAATGCCCTGCCCGGAACAACCCAGCAGCGCCTAGATGGCTTTGGTCAC
 GGTCCAGCGGTACCTACCCCAAGCACCACCTCCAGCCCTGCGCTCGAGCTCTCATT
 GGAAGACAGTGAATCAGCAGCATTACTTTGCTGTGAATGTGAAGAATCAGAAATCTTTAC
 TGATTCCAATGAGGCAGACAGTGGGGAGGAAGAATGCCGGTCACAGCCCAGGAGCATCAG
 CGAGAGCTTTCTAACTGTCAAAGGTGCTGCCCTTTTCTACCACGGGGAATGGCTCATC
 CACACCAAGAATCAGCCACAGACGGAACAAGCATGCAGGCGATCTCCAACAGCATCTCCA
 AGCAATGTTCACTTTACTCCGCCAGAAGACAACATCAGGCTGGCTGTAAGACTGAAAAG
 TACTTACCAGAATCGAACACGCTATATGGTAGTGGTTTCACTAATGGTAGACAAGACAC
 TGAAGAAAGCATCGTCTAGGAATGGATTTCTCCTCTAATGACAGTAGCACTTGTACCAT
 GGGCTTAGTTNTGCCTCTCTGGAGCGACACGCTAATTCATTTGGATGG

3' Read Nucleotide Sequence:

>OriGene 3' genomic read for NM_033389 unedited
 CCTATTATGNACCCGGCCGATTCTANGATCGATTTTTTTTTTTTTTTTTTTTGGCATCCAG
 ATCAATCTCTTTCCCTTACTATACACACACATACACACTGGAAAAACACCCAAACCC
 TGCATGCACCAGAAACAGTAAAATGACCAAAATATTATAAAATTAACCAATAAAGTGCAT
 GTTCCTTACATATTACACCTGCCCTTTTACAAACATTTCTTCTAGAAAAGTCACATGTGT
 AGGCTCAGAATCATATGATTATAGAAAAGGGTTGGTTGTCGGTTTTTTGTCATTTGCCCT
 TTTTCAGTCTCCTAAAGGGGTGAGTTCTGCCGTGTTGCTGACGGGGTCCACGGCCAGCC
 CTGGAGCTGGGCATGCACACTGCAGTCCCTGGGTCTGTAGCACGGGAAGGCCTCCTTCAG
 AACTAGTCAATCAAGTCTGCCCTGGGGAGCAAATACTGCTGACTAGAACCAAAATCTT
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 TGAGTTGTTCTACAAAAGACTTGGTGGGCTCTGGGTTGTGGGGGGCACCTGGGTTTTCTA
 AGGACTCTTGGTCTCCATCGCGTGCATGCCTGAATCTGTTCTGAAGAAAAGCTGAAGCA
 CTTTGAGATGAGGGGATTCAAGAAGCAAGCCTCCTCTCTGGTAAACAGTCTTTTACAG
 AAGGCAAGTAACCTATTTGGCGAGAGAACTGAACCCCTCATTTGGGAATGGTTGTGGAA
 CCCC GCCCTGAAACCCACCTCAGAATTCATTTCTTTACACGCTCCTTACCACACCGGGG
 GCGGGGTGAAACCCCTTATGTTTTCTCTTAAAGCCATTTGGGAGTCGAAAGGCTCCA

Restriction Sites:

NotI-NotI

ACCN:

NM_033389

Insert Size:

4700 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](#)

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

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]
Transcript Variant: This variant (2) differs in the 5' UTR and lacks an alternate in-frame exon in the 5' coding region, compared to variant 1. The encoded isoform (2) is shorter than isoform 1.