

Product datasheet for RC236530

SSH2 (NM_001282131) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SSH2 (NM_001282131) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: SSH2
Synonyms: SSH-2; SSH-2L
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236530 representing NM_001282131
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGACCCTGAGCACGTTGGCCCGCAAGAGGAAGGGCCCCCTCGTTGCACCTGCAGCCTCGGTGGCCCCG
 ACATGATTCTTACTTCTCCGCCAACCGGTCATCTCGCAGAACGCCATCAACCAGCTCATCAGCGAGAG
 CTTTCTAACTGTCAAAGGTGCTGCCCTTTTCTACCACGGGAAATGGCTCATCCACCAAGAATCAGC
 CACAGACGGAACAAGCATGCAGGCGATCTCCAACAGCATCTCAAGCAATGTTCACTTTACTCCGCCAG
 AAGACAACATCAGGCTGGCTGAAGACTGGAAAGTACTTACCAGAATCGAACACGCTATATGGTAGTGGT
 TTCAACTAATGGTAGACAAGACTGAAGAAAGCATCGTCTTAGGAATGGATTTCTCCTCTAATGACAGT
 AGCACTTGTACCATGGGCTTAGTTTTGCCTCTCTGGAGCGACACGCTAATTCATTTGGATGGTATGGTG
 GGTTCAAGTGTATCGACGGATAACAGAGTTCACATATTCAAACCTGTATCTGTGCAGGCAATGTGGGTTGA
 CAGGGATTCAAGGAACAAACACTGTGATGTACTATTGGTGAAGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236530 representing NM_001282131
 Red=Cloning site Green=Tags(s)

MTLSTLARKRKAPLACTCSLGGPDMIPYFSANAVISQNAINQLISESFLTVKGAALFLPRNGSSTPRIS
 HRRNKHAGDLQQLQAMFILLRPEDNIRLAVRLESTYQNRTRYMVVVSTNGRQDTEESIVLGMDFSSNDS
 STCTMGLVPLWSDTLIHLDDGGF SVSTDNRVHIFKPVSVQAMWVDRDRSRNKHCDVLLVEE

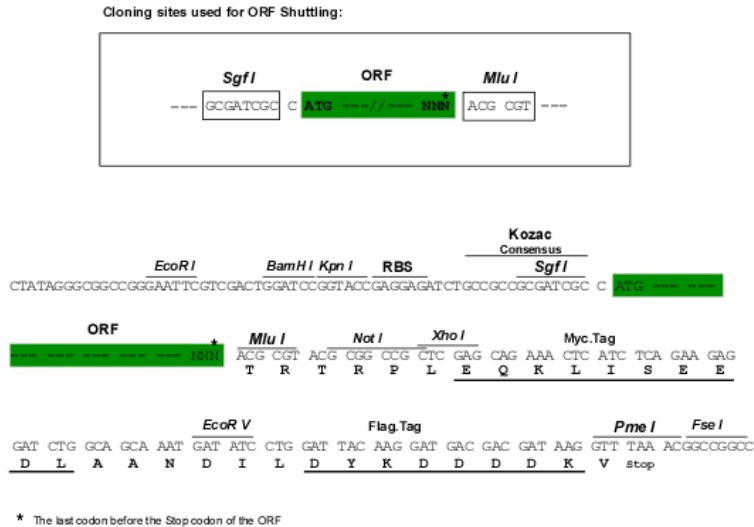
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

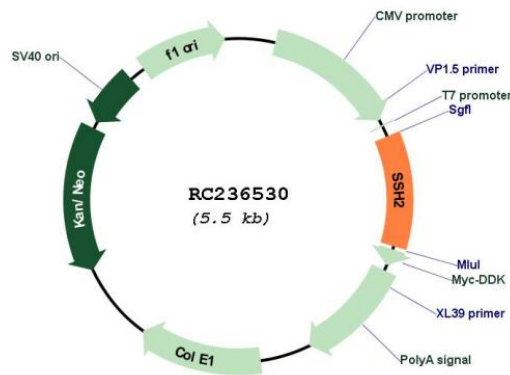


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001282131

ORF Size: 606 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_001282131.2](#)

RefSeq Size: 972 bp

RefSeq ORF: 609 bp

Locus ID: 85464

UniProt ID: [Q76I76](#)

Cytogenetics: 17q11.2

Protein Families: Druggable Genome, Phosphatase

Protein Pathways: Regulation of actin cytoskeleton

MW: 22.9 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]