

Product datasheet for **RC228546**

Slingshot homolog 1 (SSH1) (NM_001161331) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slingshot homolog 1 (SSH1) (NM_001161331) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slingshot homolog 1
Synonyms:	SSH1L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC228546 representing NM_001161331
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCAGAGCTCGGAGGCAGTTGTAGGGAGCGTTAGAGATGTGAGCACTGCAGCCACGAACCTCTTTT
 ATTTTACCGACTTCTGCATCTTCCCTTCAGCCAACCCACTGCTTCTGCTGTCCAGAGGTTTCCAGCTCAA
 TTACTTAAGTGAGAGCTTTTTCATGGTGAAGGCGCAGCCCTCTTCTTACAACAGGGAAGCAGCCCTCAA
 GGCCAGCGGAGTCTTCAGCACCCCAAGCATGCAGGTGATCTGCCTCAACATCTTCAGGTGATGATCA
 ACCTTCTCGCTTGCAGACAGAATCAAGCTGGCAGTGCCTGGAGAGCGCTGGGCGGACCGGGTCCG
 GTACATGGTGGTGTACAGCAGCGGGCGCCAGGACACCGAGGAGAATATCTTGTGGGAGTGGACTTT
 TCCAGTAAGGAAAGTAAAAGCTGCACATTGGGATGGTTCTCGACTGTGGAGCGACACGAAAATCCACC
 TTGATGGAGATGGTGGGTTGAGCGTGCAGCAGCAGGAAGGATGCACATATTTAAGCCTGTGTCTGTCCA
 GGCCATGTGGTCTGCCCTGCAGGTGCTTACAAGCCCTGCGAAGTGGCCCGGAGGCACAACACTTCCCC
 GGGGGTGTAGCTCTCATCTGGGTACCTACTATGAGAGCTGCATCAGCTCCGAGCAGAGCTGCATCAACG
 AGTGGAACGCCATGCAGGACCTGGAGTCTACGCGGCCGACTCCCCCGCCTATTTGTGGACAAGCCAC
 TGAAGGGGAAAGGACCGAGCGCCTCATCAAGCCAAGCTCCGAAGCATCATGATGAGCCAGGATCTAGAA
 AATGTGACTTCCAAGAGATTCGTAATGAATTAGAGAAACAGATGAATTGTAACCTGAAGGAACTCAAGG
 AATTTATAGACAATGAGATGCTACTTATCTTGGGACAGATGGACAAGCCCTCCCTTATCTTCGATCATCT
 TTATCTCGGCTCTGAATGGAATGCATCCAATCTGGAGAACTGCAGGGCTCAGGGGTTGATTACATTTTA
 AATGTTACCAGAGAAATCGATAATTTTTTCTGGCTTATTTGCATATCATAACATCCGAGTCTACGATG
 AAGAGACCACAGACCTCCTCGCCACTGGAATGAAGCGTATCATTTTATAAACAAGCGAAGAGGAACCA
 TTCCAAGTGCCTGGTGCATTGCAAAATGGGCGTGAGTCGCTCGGCCTCCACAGTCATAGCCTATGCAATG
 AAGGAATTCGGCTGGCCTCTGAAAAAGCATATAACTATGTAAAGCAGAAGCGCAGCATCACGCGCCCA
 ACGCGGGCTTTATGAGGCAGCTGTCTGAGTATGAAGGCATCTTGGATGCAAGCAACAGCGGCACAACAA
 GCTGTGGCGTCAGCAGACAGACAGCAGCCTCCAGCAGCCTGTGGATGACCCTGCAGGACCTGGCGACTTC
 TTGCCAGAGACCCAGATGGCACCCGAAAGCCAGCTGCCCTTCTTGGATGATGCCGCCAGCCCGGCT
 TAGGGCCCCCTCCCTGCTGTTCCGGCGACTCTCAGACCCCTTCTGCCTTCCCTGAGGATGAAAC
 TGGCAGCTTGGTCCACCTGGAGGATCCGGAGAGGGAGGCTCTGTTGGAGGAAGCTGCTCCACCTGCAGAG
 GTGCACAGGCCGCGCCAGACAGCCCAAGGTTCCGGACTCTGTGAGAAGGATGTGAAGAAGAACTAG
 AGTTTGGGAGTCCAAAGGTCGGAGCGGCTCCTTGTGTCAGGTGGAGGAGACGGAAGGGAGGAGGGCT
 GGGAGCAGGGAGGTGGGGCAGCTTCAACCCAGCTCGATCAAAACCTGCTCAACTCGGAGAACCTAAAC
 AACAACAGCAAGAGGAGCTGTCCAACGGCATGGAGGTAGGCAGAGCCCGGCTGCAGGGTGGCACACCC
 CATCCCTTCCATCCCCTCTAATTGGCCTACCTCAGCCTCTGTAGTAGGGACTACAGGCACCCGCCACCA
 CACCCAGCTGATTTTTTCTATTGTCTCTCTGGGCCCCAGCTCCCATCTCCAGGGACCTGAGGGTTCT
 TTCACAGGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

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_001161331.1](#), [NP_001154803.1](#)

RefSeq ORF: 2112 bp

Locus ID: 54434

UniProt ID: [Q8WYL5](#)

Cytogenetics: 12q24.11

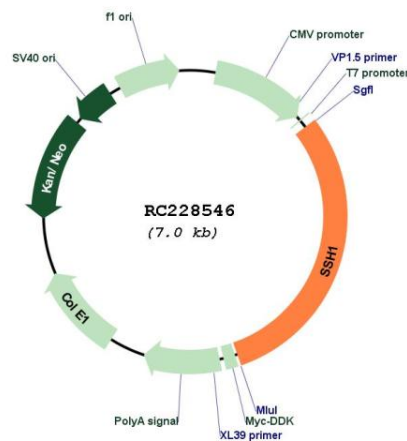
Protein Families: Druggable Genome, Phosphatase

Protein Pathways: Regulation of actin cytoskeleton

MW: 78.8 kDa

Gene Summary: The protein encoded by this gene belongs to the slingshot homolog (SSH) family of phosphatases, which regulate actin filament dynamics. The SSH proteins dephosphorylate and activate the actin binding/depolymerizing factor cofilin, which subsequently binds to actin filaments and stimulates their disassembly. Cofilin is inactivated by kinases such as LIM domain kinase-1 (LIMK1), which may also be dephosphorylated and inactivated by SSH proteins. The SSH family thus appears to play a role in actin dynamics by reactivating cofilin proteins. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Aug 2011]

Product images:



Circular map for RC228546