

Product datasheet for **SC327181**

Slingshot homolog 1 (SSH1) (NM_001161331) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slingshot homolog 1 (SSH1) (NM_001161331) Human Untagged Clone
Tag:	Tag Free
Symbol:	Slingshot homolog 1
Synonyms:	SSH1L
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001161331, the custom clone sequence may differ by one or more nucleotides

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ATGGCCAGAGCTCGGAGGGCAGTTGTAGGGAGCGTTAGAGATGTGAGCACTGCAGCCACG
AACCTCTTTTATTTTACCAGACTTCTGCATCTTCTTCAGCCAACCCACTGCTTCTGCTGT
CCAGAGGTTTCCAGCTCAAATTAAGTGAGAGCTTTTCATGGTGAAAGGCGCAGCC
CTCTTCTTACAACAGGGAAGCAGCCCTCAAGGCCAGCGGAGTCTTCAGCACCCCAACAAG
CATGCAGGTGATCTGCCTCAACATCTTCAGGTGATGATCAACCTTCTGCGTTGCGAAGAC
AGAATCAAGCTGGCAGTGCCTGGAGAGCGCCTGGGCGGACCGGGTCCGGTACATGGTG
GTGGTGTACAGCAGCGGGCGCCAGGACACCCAGGAGAATATCTTGTGGGAGTGGACTTT
TCCAGTAAAGAAAGTAAAAGCTGCACCATTGGGATGGTTCTCCGACTGTGGAGCGACAG
AAAATCCACCTTGATGGAGATGGTGGGTTGAGCGTGAGCACAGCAGGAAGGATGCACATA
TTTAAGCCTGTGTCTGTCCAGGCCATGTGGTCTGCCCTGCAGGTGCTTACAAGGCCTGC
GAAGTGGCCCGGAGGCACAACACTTCCCCGGGGTGTAGCTCTCATCTGGGCTACCTAC
TATGAGAGCTGCATCAGCTCCGAGCAGAGCTGCATCAACGAGTGGAAACGCCATGCAGGAC
CTGGAGTCTACGCGGCCGACTCCCCCGGCTATTTGTGGACAAGCCACTGAAGGGGAA
AGGACCGAGCGCCTCATCAAAGCCAAGCTCCGAAGCATCATGATGAGCCAGGATCTAGAA
AATGTGACTTCCAAGAGATTCTGAATGAATTAGAGAAACAGATGAATTGAACTGAAAG
GAACTCAAGGAATTTATAGACAATGAGATGCTACTTATCTTGGGACAGATGGACAAGCCC
TCCCTTATCTTCGATCATCTTTATCTCGGCTCTGAATGGAATGCATCCAATCTGGAGGAA
CTGCAGGGCTCAGGGGTTGATTACATTTTAAATGTTACCAGAGAAATCGATAATTTTTTT
CCTGGCTTATTTGCATATCATAACATCCGAGTCTACGATGAAGAGACCACAGACCTCCTC
GCCCACCTGGAATGAAGCGTATCATTTTATAAACAAGCGAAGAGGAACCATCCAAGTGC
CTGGTGCATTGCAAAATGGGCGTGAGTCGCTCGGCCTCCACAGTCATAGCCTATGCAATG
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ACGCGCCCAACGCGGGCTTTATGAGGCAGCTGTCTGAGTATGAAGGCATCTTGGATGCA
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GTGGATGACCCTGCAGGACCTGGCGACTTCTTGCCAGAGACCCAGATGGCACCCCGGAA
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TGTTTCCGGCGACTCTCAGACCCCTTCTGCCTTCCCCTGAGGATGAAACTGGCAGCTTG
GTCCACCTGGAGGATCCGAGAGGGAGGCTCTGTTGGAGGAAGCTGCTCCACCTGCAGAG
GTGCACAGGCCCGCCAGACAGCCCAAGGTTCCGGACTCTGTGAGAAGGATGTGAAG
AAGAACTAGAGTTTGGGAGTCCCAAAGTCCGAGCGGCTCCTTGTGAGGTGGAGGAG
ACGGAAAGGGAGGAGGGCTGGGAGCAGGGAGGTGGGGGAGCTTCCAACCCAGCTCGAT
CAAAACCTGTCAACTCGGAGAACCTAAACAACAACAGCAAGAGGAGCTGTCCCAACGGC
ATGGAGGTAGGCAGAGCCCGCCTGCAGGGTGGCACACCCCATCCCTTCCATCCCACTCT
AATTGGCTACCTCAGCCTCTGTAGTAGGGACTACAGGCACCCGCCACCACCCAGCTG
ATTTTTTCTATTGTCTCCTCTGGGCCCCAGCTCCCATCTCCAGGGACCTGAGGGTTCT
TTCACAGGG

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Restriction Sites: Please inquire

ACCN: NM_001161331

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:	<ol style="list-style-type: none">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:	<u>NM_001161331.1, NP_001154803.1</u>
RefSeq Size:	2459 bp
RefSeq ORF:	2112 bp
Locus ID:	54434
UniProt ID:	<u>Q8WYL5</u>
Cytogenetics:	12q24.11
Protein Families:	Druggable Genome, Phosphatase
Protein Pathways:	Regulation of actin cytoskeleton
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) contains an alternative 5' terminal exon, and differs at the 3' end compared to variant 1. This results in a shorter isoform (3) with distinct N- and C-termini compared to isoform 1.</p>