OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC216286

Shc1 (NM_011368) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Shc1 (NM_011368) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Shc1
Synonyms:	p66; p66shc; Shc; ShcA
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

View online »

Fully Sequenced ORF:

>MC216286 representing NM_011368
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAACAAGCTGAGTGGAGGCGGCGGGCGCAGGACTCGGGTAGAAGGGGGCCAGCTGGGGGGCGAGGAGT
GGACCAGACACGGGAGCTTTGTCAATAAGCCCACACGAGGCTGGCTGCATCCCAACGACAAAGTCATGGG
ACCTGGGGTTTCCTACTTGGTTCGGTACATGGGCTGTGTGGAGGTCTTACAGTCAATGCGAGCCCTTGAC
TTCAATACCCGGACTCAGGTCACCAGGGAGGCCATCAGTTTGGTGTGTGAAGCTGTGCCTGGTGCCAAAG
GGGCGACAAGGAGGAGAAAGCCTTGTAGCCGCCCACTCAGCTCCATCCTGGGGAGGAGTAACCTGAAGTT
TGCTGGAATGCCAATCACTCTCACTGTGTCTACCAGCAGCCTTAACCTCATGGCAGCCGACTGCAAACAG
ATCATTGCCAACCATCACATGCAATCTATCTCTTTCGCGTCCGGTGGGGATCCGGACACAGCTGAGTATG
TTGCCTATGTTGCCAAAGACCCTGTGAATCAGAGAGCCTGCCATATCCTGGAGTGTCCTGAAGGGCTTGC
TCAGGATGTCATCAGCACCATCGGGCAGGCCTTTGAGTTGCGCTTCAAACAGTATCTCAGGAATCCACCG
AAGCTGGTCACCCCCCATGACAGGATGGCTGGCTTTGATGGCTCAGCTTGGGATGAGGAGGAAGAAGAGC
CCCCTGACCATCAGTACTACAATGACTTTCCAGGGAAGGAACCCCCTCTTGGTGGGGTGGTAGATATGAG
GCTTCGGGAAGGGGCTGCTCGACCCACTCTGCCTAGTGCCCAGATGTCCAGCCACTTGGGAGCTACACTG
CCTATAGGGCAGCATGCTGCAGGAGACCATGAAGTCCGTAAACAGATGTTGCCTCCGCCGCCTTGCCCAG
GCAGAGAACTCTTCGATGACCCCTCCTATGTCAACATCCAGAATCTAGACAAGGCCCGGCAGGCTGGGGG
TGGGGCTGGGCCCCCAAATCCTTCTCTTAATGGCAGTGCACCCCGAGACCTTTTTGACATGAAGCCCTTT
GAAGATGCACTTCGGGTGCCACCCCCACCGCAGTCCATGTCCATGGCTGAGCAGCTGCAAGGGGAGCCCT
GGTTCCACGGGAAGCTGAGCCGGAGGGAGGCCGAGGCGCTGCTGCAGCTCAATGGTGACTTCTTGGTGCG
AGAGAGCACGACCACGCCTGGCCAGTATGTGCTCACTGGCCTGCAGAGTGGGCAGCCCAAGCACTTGCTG
CTGGTGGACCCTGAAGGTGTGGTTCGGACAAAGGATCACCGCTTTGAGAGTGTCAGTCACCTGATCAGCT
ACCACATGGACAATCACTTGCCCATCATCTCTGCGGGCAGCGAACTGTGCCTACAGCAACCCGTGGATCG
GAAAGTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_011368

Insert Size: 1410 bp

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).

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_011368.5, NP_035498.2
RefSeq Size:	3171 bp
RefSeq ORF:	1410 bp
Locus ID:	20416
UniProt ID:	P98083
Cytogenetics:	3 39.11 cM
Gene Summary:	Signaling adapter that couples activated growth factor receptors to signaling pathways. Participates in signaling downstream of the angiopoietin receptor TEK/TIE2, and plays a role in the regulation of endothelial cell migration and sprouting angiogenesis (By similarity). Participates in a signaling cascade initiated by activated KIT and KITLG/SCF. Isoform p47Shc and isoform p52Shc, once phosphorylated, couple activated receptor kinases to Ras via the recruitment of the GRB2/SOS complex and are implicated in the cytoplasmic propagation of mitogenic signals. Isoform p47Shc and isoform p52 may thus function as initiators of the Ras signaling cascade in various non-neuronal systems. Isoform p66Shc does not mediate Ras activation, but is involved in signal transduction pathways that regulate the cellular response to oxidative stress and life span. Isoform p66Shc acts as a downstream target of the tumor suppressor p53 and is indispensable for the ability of stress-activated p53 to induce elevation of intracellular oxidants, cytochrome c release and apoptosis. The expression of isoform p66Shc has been correlated with life span.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) represents use of an alternate promoter and 5' UTR and uses a downstream start codon, compared to variant 1. The resulting isoform (b) has a shorter N-terminus, compared to isoform a.