

Product datasheet for **RR216944**

Shc1 (NM_001164060) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Shc1 (NM_001164060) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Shc1
Synonyms:	P66shc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR216944 representing NM_001164060
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATCTTCTACCCCCAAGCCGAAGTACAACCCACTTCGGAATGAGTCTCTGTATCGCTGGAGGAGG
 GGGCTTCAGGGTCTACTCCACCGGAGGAGCTGCCTTCCCATCAGCCTCATCCCTGGGACCCATTCTGCC
 TCCTCTGCCGGGGACGATAGCCCGACTACCCTGTGTTCTTCTTTCCCGGATGAGCAACTTGAAGCTG
 GCCAATCTGCTGGGGGCGCCTGGGACCTAAAGGGGAGCCAGGAAAAGCTGCAGAAGATGGGGAAGGGA
 GTGCAGGAGCAGCCCTTCGGGACTCAGGCCTCTTGCCCTCCTCCAGGACATGAACAAGCTGAGTGGAGG
 CGGCGGGCGCAGGACTCGGGTAGAAGGGGGCCAGCTGGGGGGCAGGAGTGGACCAGACACGGGAGCTTT
 GTCAATAAGCCCACACGAGGCTGGCTGCATCCCAACGACAAAGTCATGGGACCTGGGTTTCTACTTGG
 TTCGGTACATGGGTTGCGTGGAGGTCTTACAGTCAATGCGAGCCCTTGACTTCAATACCCGGACTCAGT
 CACCAGGGAGGCTATCAGTTTGGTGTGTAAGCTGTGCCTGGTCCAAAGGGGCGATGAGGAGGAGAAA
 CCCTGCAGCCGCCACTCAGCTCTATCCTGGGAAGGAGTAACCTGAAGTTTGGTGGAAATGCCGATCACTC
 TCACTGTGTCTACCAGCAGCCTAACCTCATGGCAGCAGACTGCAACAGATCATTGCCAACCATACAT
 GCAATCTATCTCATTTCGGTCTGGTGGGATCCGGACACAGCTGAGTACGTTGCCTATGTTGCCAAAGAC
 CCTGTGAATCAGAGAGCCTGCCATATCCTGGAGTGTCTGAAGGACTTGCTCAGGACGTCATCAGCACCA
 TCGGGCAGGCCTTTGAGTTGCGCTTCAAACAGTATCTCAGGAATCCACCAAGCTGGTCAACCCCATGA
 CAGGATGGCTGGCTTTGATGGCTCAGCTTGGGATGAGGAGGAAGAAGAGCCCCCTGACCATCAGTACTAC
 AATGACTTCCCAGGAAGGAACCCCTCTTGGTGGAGTGGTAGATATGAGGCTTCGGGAAGGGGCTGCTC
 GACCCACTTCCCAGTACCCAGATGCCAGACTTGGGAGCTACACTGCCAATAGGGCAGCATGTTAC
 AGGAGACCATGAAGTCCGTAACACAGATGCTGCCTCCACCACCGTGCCAGGCAGAGAAGCTTTCGATGAT
 CCTTCTATGTCAACATCCAGAATCTAGACAAGGCCCGCAAGCTGGTGGTGGGGCTGGACCCCAATC
 CTTCTGTTAATGGCAGTGCACCCGAGACCTCTTGTACATGAAGCCCTCGAAGATGCACTCCGGGTGCC
 GCCAGCTCCCGAGTCCATGTCCATGGCTGAGCAGCTCCAAGGGGAGTCTGGTTTTCATGGAAAAGTACAGC
 CGGCGGGAGGCTGAGGCGCTGCTGCAGCTCAACGGTACTTCTGGTGGCAGAGAGTACAACCACACCTG
 GCCAGTACGTGCTCACTGGTCTGCAGAGTGGGAGCCCAAGCACTTGCTTCTGGTGGACCCTGAAGGTGT
 GGTTCCGACAAAGGATCACCGCTTGGAGTGTGAGTACCTGATCAGCTACCACATGGACAATCACTTA
 CCCATCATCTCTGCAGGCAGTGAAGTGTCTACAGCAACCTGTGGATCGAAAAGTG

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR216944 representing NM_001164060
 Red=Cloning site Green=Tags(s)

MDLLPPKPKYNPLRNESLSSLEEGASGTPPEELPSPSASSLGPILPPLPGDDSPPTLCSFFPRMSNLKL
 ANPAGGRLGPKGEPGKAAEDGEGSAGAALRDSGLLPLLQDMNKLSGGGRRRTRVEGGQLGGEWTRHGSF
 VNKPTRGWLHPNDKVMGPGVSYLVRYMGCVEVLQSMRALDFNTRTQVTREAI SLVCEAVPGAKGAMRRRK
 PCSRPLSSILGRSNLKFAGMPITLTVSTSSLNLMAADCKQIIANHHMQSISFASGGDPDTAEYVAYVAKD
 PVNQRACHILECPEGLAQDVIISTIGQAFELRFKQYLRNPPKLVTPHDMAGFDGSAWDEEEEEPPDHQYY
 NDFPGKEPPLGGVDMRLREGAARPTLPSTQMPSHLGATLPIGQHVTDGHEVRKQMLPPPPCPGRELFFD
 PSYVNIQNLDKARQAGGAGPPNPSVNGSAPRDLFDMKPFEDALRVPPAPQSMSMAEQLQGESWFHGKLS
 RREAEALLQLNGDFLVRESTTTPGQYVLTGLQSQPKHLLLVDPEGVVTRKDHFRFESVSHLISYHMDNHL
 PIISAGSELCLQPVDKVV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001164060

ORF Size: 1737 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_001164060.1](#), [NP_001157532.1](#)

RefSeq Size: 3541 bp

RefSeq ORF: 1740 bp

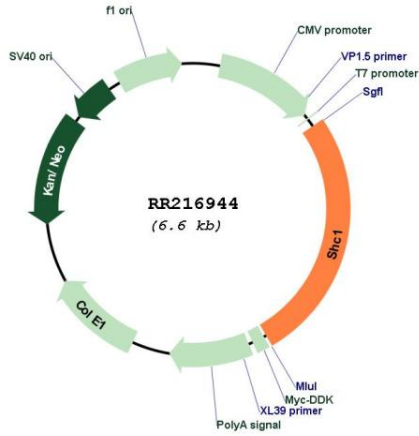
Locus ID: 85385

Cytogenetics: 2q34

MW: 62.7 kDa

Gene Summary: mouse homolog interacts with growth factor receptors; involved in transformation and differentiation in a Ras-dependent fashion [RGD, Feb 2006]

Product images:



Circular map for RR216944