

## Product datasheet for **SC215054**

### SHC (SHC1) (NM\_183001) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	SHC (SHC1) (NM_183001) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	SHC1
Synonyms:	SHC; SHCA
ACCN:	NM_183001
Insert Size:	1535 bp



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**Insert Sequence:** >SC215054 3'UTR clone of NM\_183001  
The sequence shown below is from the reference sequence of NM\_183001. The complete sequence of this clone may contain minor differences, such as SNPs.  
Blue=Stop Codon Red=Cloning site

```
GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
CTACAGCAACCTGTGGAGCGGAAACTGTGATCTGCCCTAGCGCTCTCTTCCAGAAGATGCCCTCCAATC
CTTTCCACCCTATTCCCTAACTCTCGGGACCTCGTTTGGGAGTGTCTGTGGGCTTGGCCTTGTGTCAG
AGCTGGGAGTAGCATGGACTCTGGGTTTCATATCCAGCTGAGTGAGAGGGTTTGTAGTCAAAAAGCCTGGG
TGAGAATCCTGCCTCTCCCAAACATTAATCACCAAAGTATTAATGTACAGAGTGGCCCTCACCTGGG
CCTTTCTGTGCCAACCTGATGCCCTTCCCAAAGAAGGTGAGTGCTTGTATGAAAAATGCTCTGTGG
TGACAGGCCAGTGAACAGTCAACCTTCTGGGCAAGGGGAACAAATCACACCTCTGGGCTTCCAGGT
ATCCAGACCCCTCTCAACACCCGCCCCCATGTTAAACTTTGTGCCCTTGACCATCTCTTAGGTC
TAATGATATTTTATGCAAACAGTTCTTGGACCCCTGAATTCATGACAGGGATGCCAACACCTTCTTGG
CTTCTGGGACCTGTGTTCTTGTGAGCACCTCTCCGGTTTGGGTGGGATAACAGAGGCAGGAGTGGC
AGCTGTCCCTCTCCCTGGGGATATGCAACCTTAGAGATTGCCCCAGAGCCCACTCCCGCCAGGCG
GGAGATGGACCCCTCCCTTGCTCAGTGCCTCTGGCCGGGGCCCTCACCCAAAGGGTCTGTATATAC
ATTTCCATAAGGCCTGCCCTCCCATGTTGCATGCCTATGTACTCTACGCCAAAGTGACGCCCTTCTCCT
GAAGCCTCTGCCCTGCCTCCCTTCTGGGAGGGCGGGTGGGGTGAAGTATTTGGCCTTGTGTACA
GTAACTCTCCAGGTGGATTTTGTGGAGGTGAGAAAAGGGGCATTGAGACTATAAAGCAGTAGACAAT
CCCCACATACCATCTGTAGAGTTGGAATGCATTCTTTAAAGTTTTATATGCATATATTTAGGGCTG
TAGACTTACTTTCTATTTCTTTTCCATTGCTTATTCTTGGACACAAAATGATAATCAATTATTACAT
TTATACATCACCTTTTTGACTTTTCCAAGCCCTTTTACAGCTCTTGGCATTTCCTCGCCTAGGCCCTGT
GAGGTAAGTGGGATCGCACCTTTTATACAGAGACCTGAGGCAGATGAAATTTATTTCCATCTAGGACT
AGAAAACTTGGGTCTCTTACCAGGAGACTGAGAGGCAGAAAGTACAGCCGAATGCCTGTCAGTTTCATG
GAGGGGAAACGCAAAACCTGCAGTTCTGAGTACCTTCTACAGGCCCGGCCAGCCTAGGCCCGGGTG
GCCACACCACAGCAAGCCGGCCCCCTCTTTGGCCTTGTGGATAAGGGAGAGTTGACCGTTTTTCATC
CTGGCCTCCTTTGCTGTTTGGATGTTTCCACGGGTCTCACTTATACCAAAGGGAAAACCTTTCATTAA
AGTCCGTATTTCTTCTA
ACGCGTAAGCGGCCGCGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
```

**Restriction Sites:** SgfI-MluI

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

**Components:** The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:** [NM\\_183001.5](#)

**Summary:**

This gene encodes three main isoforms that differ in activities and subcellular location. While all three are adapter proteins in signal transduction pathways, the longest (p66Shc) may be involved in regulating life span and the effects of reactive oxygen species. The other two isoforms, p52Shc and p46Shc, link activated receptor tyrosine kinases to the Ras pathway by recruitment of the GRB2/SOS complex. p66Shc is not involved in Ras activation. Unlike the other two isoforms, p46Shc is targeted to the mitochondrial matrix. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2011]

**Locus ID:**

6464

**MW:**

55.5