

## Product datasheet for **RC205195**

### **SHC3 (NM\_016848) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SHC3 (NM_016848) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SHC3
Synonyms:	N-Shc; NSHC; RAI; SHCC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC205195 representing NM\_016848  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCTTCCACGCACCAAGTATAACCGCTTCAGGAATGACTCGGTGACATCGGTGATGACCTTCTCCACA  
 GCCTGTGGTGTAGCGGCGCGGAGGCAAGGTTTCGGCGGCGCGCGACCCCGCGGCGGCTCCCTACTT  
 GGTGTCCGGCGAGGCGCTGCGCAAGCGCCCGTCGATGGGCCCGCAGCCTGGGCCACCTGCTCCACAAG  
 GTGTCCACCTGAAACTCTCAGCTCGGGCTCCGCGGCCTGTCGTGGCCCGCCGGGAGCGGGCGGGCG  
 CGCGGCTCTCGGGCAGCTGCAGCGCGCCAGCCTGGCCGCCCCGACGGCAGTGCGCCCTCGCGCCCCG  
 CGCCCCGGCCATGAGCGCCGCCAGGAAGGGCCGGCCCGGCGACGAGCCGCTGCCAGGCCCTCGGGGG  
 GCGCCGACGCCAGCAGGTGCTGGGGCCGGAGTCACTACGTGGTCAAGTACTTGGGGTGCATTG  
 AAGTTCTGCGCTCAATGAGGTCTCTTGACTTCAGTACAAGAACAATAATACCAGGAAGCCATCAGCCG  
 CGTCTGTGAAGCTGTGCCTGGTGGCAAGGGAGCCTTCAAGAAGAGAAAGCCTCCAAGCAAAATGCTGCC  
 AGCATCTTGGAAAGAGCAACCTCCAGTTTGGCGGAATGAGCATCTCTGACCATCTCCACGGCCAGTC  
 TGAACCTGCGAATCCGGACTCCAAACAGATCATAGCGAATCACCACATGCGGTCCATCTCTTCGCCCTC  
 TGGGGGAGACCCGGACACGACTGACTATGTTGCATATGTGACTAAGGACCTGTTAATCGCAGAGCTTGT  
 CACATTTTGAATGCTGTGATGGGCTGGCCAGGATGTCATCGGCTCCATCGGACAAGCCTTTGAGCTCC  
 GGTAAAGCAATATTTACAGTGTCTACCAAGATTCGCCCTCTCCATGATCGAATGCAGAGTCTGGATGA  
 GCCATGGACGGAAGAGGGAGGATGGCTCAGACCACCATACTACAACAGCATCCAAGCAAGATGCCT  
 CCTCCAGGGGCTTTCTTGATACTAGACTGAAACCCAGACCCCATGCTCCTGACACAGCCAGTTTGCAG  
 GAAAAGAGCAGACTTATTACCAGGAAGACACTTAGGAGACACTTTTGGGAAGACTGGCAGAAACACC  
 TTTAAGGCAAGGGTCTCGGACATCTACAGCACGCCAGAAGGGAAACTGCACGTGGCCCCACGGGAGAA  
 GCACCCACCTACGTCAACACTCAGCAGATCCACACAGGCTGGCCGGCTGCGGTGAGCAGTGTGAGA  
 GCAGCCCAAGGAAAGACCTCTTTGACATGAAACCTTTTGAAGTGTCTCAAGAACCAGCCCTTGGGGCC  
 CGTGTTAAGCAAGGCAGCCTCCGTGGAGTGCATCAGCCCTGTGTACCTAGAGCCCAGATGCCAAGATG  
 CTGGAGGAACTGCAAGCCGAGACTTGGTACCAAGGAGAGATGAGCAGGAAGGAGGAGAGGGGCTGTGG  
 AGAAAGACGGAGACTTCTGGTCAAGGAGCACCACCAACCCGGGCTCCTTTGCTCCTCACGGGCATGCA  
 CAATGGCCAGGCCAAGCACCTGTGCTCGTGGACCCAGAAGGCACGATCCAGACAAGGACAGAGTCTTT  
 GACAGTATCAGCCACCTCATCAACCACCACCTAGAAAGCAGCCTGCCATTGTCTCTGCAGGGAGTGAGC  
 TGTGTCTCCAGCAGCCAGTGGAGAGGAAGCAG

**ACGCGT**ACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC205195 representing NM\_016848  
 Red=Cloning site Green=Tags(s)

MLPRTKYNRFRNDSVTSVDDLLHSLSVSGGGKVSAAATPAAAPYLVSGEALRKAPVDGPGSLGHLLHK  
 VSHLKLSSSGLRGLSSAARERAGARLSGSCSAPSLAAPDGSAPSAPRAPAMSAARKGRPGDEPLRPPRG  
 APHASDQVLGPGVTYVVKYLGCIEVLRSMRSLDFSTRQTITREASRVCEAVPGAKGAFKKRPPSKMLS  
 SILGKSNLQFAGMSISLTISTASLNL RTPDSKQIIANHHMRSISFASGGDPDTTDYVAYVKDPVNRAC  
 HILECCDGLAQDVIQAFELRFKQYLQCPTKIPALHDMQSLDEPWTEEEGDGSDHPYNSIPSKMP  
 PPGGFLDTRLKPRPHAPDTAQFAGKEQTYQGRHLGDTFGEDWQQTPLRQSSDIYSTPEGLHVAPTGE  
 APTYVNTQIIPQAWPAAVSSAESSPRKDLFDMKPFEDALKNQPLGPVLSKAASVEICISPVSPRAPDAKM  
 LEELQAETWYQGEMSRKEAEGLEKDGDFLVRKSTTNGPSFVLTGMHNGQAKHLLLVDPETGIQTKDRVF  
 DSISHLINHHLESSLPIVSAGSELCLQPVERKQ

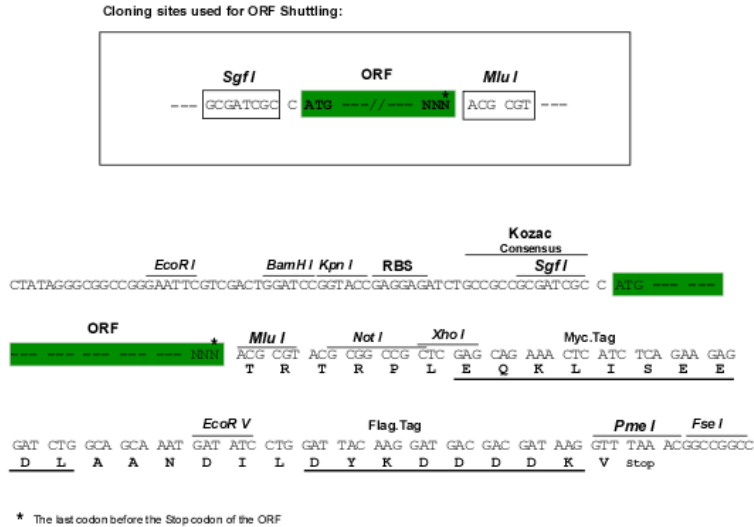
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mg3672\\_b09.zip](https://cdn.origene.com/chromatograms/mg3672_b09.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_016848

ORF Size: 1782 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\\_016848.3](#)

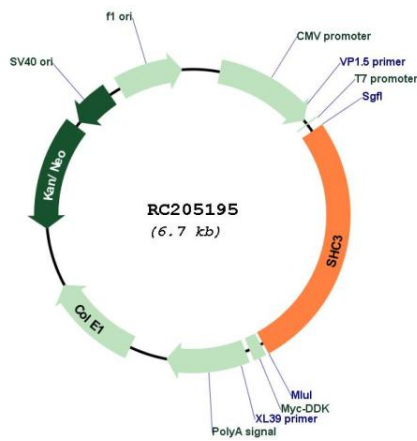
RefSeq Size: 2400 bp

RefSeq ORF: 1785 bp

Locus ID: 53358

UniProt ID: [Q92529](#)  
 Cytogenetics: 9q22.1  
 Domains: SH2, PID  
 Protein Pathways: Chemokine signaling pathway, Chronic myeloid leukemia, ErbB signaling pathway, Focal adhesion, Glioma, Insulin signaling pathway, Natural killer cell mediated cytotoxicity, Neurotrophin signaling pathway  
 MW: 63.9 kDa  
 Gene Summary: Signaling adapter that couples activated growth factor receptors to signaling pathway in neurons. Involved in the signal transduction pathways of neurotrophin-activated Trk receptors in cortical neurons.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RC205195