

Product datasheet for **RG205195**

SHC3 (NM_016848) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SHC3 (NM_016848) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SHC3
Synonyms:	N-Shc; NSHC; RAI; SHCC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG205195 representing NM_016848
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTTCCACGCACCAAGTATAACCGCTTCAGGAATGACTCGGTGACATCGGTGATGACCTTCTCCACA
 GCCTGTCCGGTGTAGCGGCGCGGAGGCAAGGTTTCGGCGGCGCGCGACCCCGCGGCGGCTCCCTACTT
 GGTGTCCGGCGAGGCGCTGCGCAAGCGCCCGTCGATGGGCCCGCAGCCTGGGCCACCTGCTCCACAAG
 GTGTCCCACCTGAAACTCTCAGCTCGGGCTCCGCGGCCTGTCGTGGCCCGCCGGGAGCGGGCGGGCG
 CGCGGCTCTCGGGCAGCTGCAGCGCGCCAGCCTGGCCGCCCCGACGGCAGTGCGCCCTCGCGCCCCG
 CGCCCCGGCCATGAGCGCCGCCAGGAAGGGCCGGCCCGGCGACGAGCCGCTGCCAGGCCCTCGGGGG
 GCGCCGCACGCCAGCAGGTGCTGGGGCCGGAGTCACTACGTGGTCAAGTACTTGGGGTGCATTG
 AAGTTCTGCGCTCAATGAGGTCTTTGACTTCAGTACAAGAACAATAATACCAGGAAGCCATCAGCCG
 CGTCTGTGAAGCTGTGCCTGGTGGCAAGGGAGCCTTCAAGAAGAGAAAGCCTCCAAGCAAAATGCTGCC
 AGCATCTTGGAAAGAGCAACCTCCAGTTTGGCGGAATGAGCATCTCTCTGACCATCTCCACGGCCAGTC
 TGAACCTGCGAATCCGGACTCCAAACAGATCATAGCGAATCACCACATGCGGTCCATCTCTTCGCCCTC
 TGGGGGAGACCCGGACACGACTGACTATGTTGCATATGTGACTAAGGACCTGTTAATCGCAGAGCTTGT
 CACATTTTGAATGCTGTGATGGGCTGGCCAGGATGTCATCGGCTCCATCGGACAAGCCTTTGAGCTCC
 GGTAAAGCAATATTTACAGTGTCTACCAAGATTCGCCCTCTCCATGATCGAATGCAGAGTCTGGATGA
 GCCATGGACGGAAGAGGAGGAGATGGCTCAGACCACCATACTACAACAGCATCCAAGCAAGATGCCT
 CCTCCAGGGGGCTTTCTTGATACTAGACTGAAACCCAGACCCCATGCTCCTGACACAGCCAGTTTGACG
 GAAAAGACGACAGCTTATTACCAGGAAGACACTTAGGAGACACTTTTGGCGAAGACTGGCAGCAACACC
 TTTAAGGCAAGGGTCTCGGACATCTACAGCACGCCAGAAGGAAACTGCACGTGGCCCCACGGGAGAA
 GCACCCACCTACGTCAACACTCAGCAGATCCCACCACAGGCTGGCCGGCTGCGGTGAGCAGTGTGAGA
 GCAGCCCAAGGAAAGACCTCTTTGACATGAAACCTTTTGAAGTGTCTCAAGAACCAGCCCTTGGGGCC
 CGTGTTAAGCAAGGCAGCCTCCGTGGAGTGCATCAGCCCTGTGTACCTAGAGCCCAGATGCCAAGATG
 CTGGAGGAACTGCAAGCCGAGACTTGGTACCAAGGAGAGATGAGCAGGAAGGAGGAGAGGGGCTGCTGG
 AGAAAGACGGAGACTTCTGGTCAAGGAGCACCACCAACCCGGGCTCCTTTGCTCAGGGCATGCA
 CAATGGCCAGGCCAAGCACCTGCTGCTCGTGGACCCAGAAGGCACGATCCAGACAAGGACAGAGTCTTT
 GACAGTATCAGCCACCTCATCAACCACCACCTAGAAAGCAGCCTGCCATTGTCTCTGCAGGGAGTGAGC
 TGTGTCTCCAGCAGCCAGTGGAGAGGAAGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG205195 representing NM_016848
 Red=Cloning site Green=Tags(s)

MLPRTKYNRFRNDSVTSVDDLLHSLSVSGGGKVSAAARATPAAAPYLVSGEALRKAPVDGPGSLGHLLHK
 VSHLKLSSSLRGLSSAARERAGARLSGSCSAPSLAAPDGSAPSAPRAPAMSAARKGRPGDEPLPRPPRG
 APHASDQVLGPGVTYVVKYLGCIEVLRSMRSLDFSTRQITREASRVCEAVPGAKGAFKKRPPSKMLS
 SILGKSNLQFAGMSISLTISTASLNLRTDPSKQIANHHMRSISFASGGDPDITDYVAYVTKDPVNRAC
 HILECCDGLAQDVIQAFELRFKQYLQCPTKIPALHDMQSLDEPWTEEGDGDHPYNSIPSKMP
 PPGGFLDTRLKPRPHAPDTAQFAGKEQTYQGRHLGDTFGEDWQQTPLRQSSDIYSTPEGKLVHAPTGE
 APTYVNTQQIPPAVPAVSSAESSPRKDLFDMKPFEDALKNQPLGPVLSKAASVEICISPVSPRAPDAKM
 LEELQAETWYQGEMSRKEAEGLEKDGDFLVRKSTTNPGSFVLTGMHNGQAKHLLLVDPEGTIQTDRVF
 DSISHLINHHLESSLPIVSAGSELCLQPVERKQ

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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:	<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:	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
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]