

## Product datasheet for **SC304385**

### SHANK1 (NM\_016148) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SHANK1 (NM\_016148) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** SHANK1  
**Synonyms:** SPANK-1; SSTRIP; synamon  
**Vector:** pCMV6 series  
**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_016148, the custom clone sequence may differ by one or more nucleotides

```

ATGACCCACAGCCCCGCGACAAGCGAGGACGAGGAACGCCACAGTGCCAGCGAGTGTCCC
GAGGGGGGCTCAGAGTCCGACAGCTCCCCAGACGGGCCAGGTCGAGGCCCGGGGGACC
CGGGGCCAGGGCAGTGGGGCACCTGGTAGCCTGGCCTCTGTTAGAGGCCTCCAGGGCCGC
TCAATGTCCGTCCAGACGACGCCCACTCAGCATGATGGTCTTCAGGATTGGCATCCCC
GACCTGCACCAGACAAAATGCCTTCGCTCAACCCCGATGCCACCATCTGGACGGCCAAG
CAGCAGGTGCTCTGTGCCCTGAGCGAGAGCCTGCAGGATGTGCTCAACTATGGCCTGTT
CAACCGGCCACCTCCGGCCGCGATGCCAACTTCCTGGAGGAGGAGAGGCTGCTGCGGGAG
TACCCCAAGTCCCTTGGAAAGGGGTCCCTACCTGGAGTTCGATACAAGACCCGAGTT
TACAAACAGACCAACCTGGATGAGAAGCAGCTGGCCAAGTTGCACACGAAGACGGGGTTG
AAGAAGTTCCTGGAGTATGTGCAGCTCGGGACATCTGACAAGGTGGCGCGGCTGTGGAC
AAGGGGCTGGACCCCAATTACCATGACTCGGATTCGGGAGAGACCCCTTGACACTGGCG
GCCAGACCGAAGGCTCTGTAGAGGTGATTCGAACCTGTGCCTGGGCGGGGCCACATT
GACTTCCGGGCCCGGGATGGCATGACCGCACTGCATAAGGCCGCATGCGCCCGACTGC
CTGGCACTCACGGCGCTCCTGGACCTTGGGGTTCCCCAACTACAAGGACCGTCCGGGG
CTGACCCCTCTGTTCCACACGGCCATGGTGGGTGGTACCCCGATGCTGCGAGCTGCT
CTGTTCAACAGGGCCAGCTGGGCATAGCTGATGAGAACGGCTGGCAGGAAATCCACCAG
GCCTGCCAGCGGGTCACTCTCAGCACCTGGAGCATCTGCTTTTACGGGGTGAAGCT
GGAGCCCAGAAGCCTCGGGGAACAGGCTCTGCACATCTGCGCCCTCTACAACAAGGAG
ACCTGTGCCAGGATCCTCCTGTATCGAGGTGCCGACAAGGATGTGAAGAACAACAACGGA
CAGACCCCTTCCAGGTGGCAGTATTGCTGGGAATTTGAGCTGGGGGAGCTGATCCGA
AACCACCGAGAACAGGATGTGGTGCCCTCCAGGAGTCCCCAAGTACCGGGCCCGGCGA
CGGGGGCCCCAGGCACAGGGCTGACGGTGCCCCCGCGCTGCTGCGGGCCAACAGTGAC
ACCAGCATGGCGCTGCCGACTGGATGGTGTCTCCGCCCGGGGGCCGCGTCTCTGGG
GCCCTGGCCCTACCTCAGGGTCCAGGGCCAGTCGCAGCCCTCGGCCCCACCACCAAG
CTCAGCAGCGGGACCCTCCGAAGTGCCAGCAGCCCCCGGGGTGCCAGGGCCCGCTCTCCA
TCCCGAGGGAGGCACCCTGAGGACGCCAAGAGGCAGCCCCGAGGCCGGCCAGCTCCAGC
GGGACACCCCGGAAGGGCCAGCCGGGGGCACGGGGGGCTCAGGGGGCCCCGGGGCTCC
CTGGGCAGCCCGGGAGGCGGAGGAAGCTCTACTCAGCGTACCCGGACGCTCCTTCATG
GCTGTGAAGTCTACCAGGCCAAGCCGAGGGGAGATCTCCTGAGCAAGGGCGAGAAG

```



[View online >](#)



```

GCATCCAGCCTGACATCCTATGACAGCGAGGTGGCCACCCTGACCCAGGGGGCCTCCGCC
GCTCCTGGGGACCCCATCCACCAGGCCCGCTGCCCCAGCAGCACCGGCTCCCGCTGCC
CCACAGCCTGGCCCGGACCCTCCGCCTGGCAGGATTCTGGCATCGAGGAGGTGGACAGT
CGGAGCAGCAGTGACCACCCACTGGAGACCATCAGCAGCGCTCCACGCTGAGCAGCCTA
TCTGCCGAAGGTGGTGGCAGCGCAGGGGGTGGGGCGGGCTGGGGCCGGTGTGGCCAGT
GGGCCGGAGCTTCTGGACACCTATGTGGCTACCTGGACGGCCAGGCTTTGGGGGCAGC
AGTACTCCGGCCCGCCATACCCTCCTCAGCTCATGACTCCCTTAAGCTCCGGGGCCGG
GCGCTAGGAGCCAGCGGAGGCCCTGCGGCCTGGCCCCAGCGGGGACTCCGAGACCCTGTT
ACCCCCACCAGCCCCACCGTCTCGGTGACAGGGGCTGGAACCGATGGGCTGCTGGCCCTG
CGTGCTTGTTCAGGACCCCCACGGCAGGCGTGGCGGGGGTCCGGTGGCTGTAGAGCCA
GAAGTCCCACCGGTGCCCTTGCCGACGGCCTCCTCTGCCCCGGAAGCTGCTGCCCTGG
GAGGAGGGCCCGGCCACCGCCACCACCTTGCCCGGGCCCTTGCCCCAGCCTCAGGCC
TCAGCCTTGCCACAGTAAAAGCCAGCATCATCAGTGAACCTCAGCTCCAAGCTTCAGCAG
TTTGGGGCTCCTCGGCAGCTGGCGCGCTGCTGCCCTGGGCCCGAGGAGGCAGTGGGGGA
GGCGGAGACAGCCACCACGGGGAGCCAGCTATGTCCCCGAGAGGACCTCCTCCCTGCAG
CGGCAGAGACTCTCCGAGACTCCAGTCTCACTCCTCTCCAAGCTGTGAGCAGCCTG
TTTCAGAAGTGGCCAAACCACCTTGCCGCCACTCCCCACCGGAACAGGGGTCTCCCTT
ACAGCCGCTGCGGCCACGGGGCCACCTCACCTCAGCCTCCTCCTCCACGTCCACC
CGCCACCTCCAGGGCGTGGAGTTCGAGATGCGGCCCTCTGCTCCGCCGGGCCCCAGC
CCCTCGCTGCTGCCCGCCTCGGAGCACAAAGTCAAGCCTGCGCCAGGCCCTCGTCCCTG
CCCATCCTGCCTCCGGACCCCTTACCAGGCCTTTTGACATCCGTGGCTCCCCAACT
GGAGGGCAGGAGGCTCGGCTGACCCCTTCGCCCCAGTCTTTGTGCCCCACACCCGGGG
ATATCCGGGGGGCTCGGGGGAGCCTTGTGAGGGGCTCGCGCTCCCTCTACCCGACCCGC
CTGCTCTCGCTGCCCGGACAAGCCGTTTGGCGCTAAACCTCTGGGGTTCTGGACCAAG
TTCGACGTGGCTGATTGGCTGGAGTGGTGGGTTTGGCGGAGCACCGAGCCAGTTCCTG
GACCACGAGATCGATGGCTCCCACCTGCCCGCCTTGACCAAGGAGGACTACGTGATCTA
GGTGTGACCAGGGTGGGCCACCGCATGAACATCGACCGGGCTCTCAAATTCTTCTGGAG
AGGTGA
    
```

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_016148

**OTI Disclaimer:**

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_016148.1</a></u> , <u><a href="#">NP_057232.1</a></u>
<b>RefSeq Size:</b>	6643 bp
<b>RefSeq ORF:</b>	6486 bp
<b>Locus ID:</b>	50944
<b>UniProt ID:</b>	<u><a href="#">Q9Y566</a></u>
<b>Cytogenetics:</b>	19q13.33
<b>Gene Summary:</b>	This gene encodes a member of the SHANK (SH3 domain and ankyrin repeat containing) family of proteins. Members of this family act as scaffold proteins that are required for the development and function of neuronal synapses. Deletions in this gene may be associated with autism spectrum disorder in males. [provided by RefSeq, Apr 2016]