

## Product datasheet for **SC113047**

### SCYL1 (NM\_020680) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SCYL1 (NM_020680) Human Untagged Clone
Tag:	Tag Free
Symbol:	SCYL1
Synonyms:	GKLP; HT019; NKTL; NTKL; P105; SCAR21; TAPK; TEIF; TRAP
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_020680, the custom clone sequence may differ by one or more nucleotides

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ATGTGGTTCTTTGCCCGGACCCGGTCCGGGACTTCCGTTTCGAGCTCATCCCGAGCCCCAGAGGGCG
GCCTGCCCGGGCCCTGGCCCTGCACCCGGCCGCAAGAAGGCCACAGGCAGCCCCGTGCCATCTTCGT
CTATGATGTGAAGCCTGGCGCGGAAGCAGACCCAGGTGGCAAAGCTGCCTTCAAGCGTTCAAACCT
CTACGGCACCCCAACATCCTGGCTTACATCGATGGACTGGAGACAGAAAAATGCCTCCACGTCGTGACAG
AGGCTGTGACCCCGTTGGGAATATACCTCAAGGCGAGAGTGGAGGCTGGTGGCCTGAAGGAGCTGGAGAT
CTCCTGGGGGCTACACCAGATCGTAAAAGCCCTCAGCTTCTGGTCAACGACTGCAGCCTCATCCACAAC
AATGTCTGCATGGCCGCGTGTTCGTGGACCGAGCTGGCGAGTGGAAAGCTGGGGGCTGGACTACATGT
ATTCGGCCAGGGCAACGGTGGGGGACCTCCCGCAAGGGGATCCCGAGCTTGAGCAGTATGACCCCC
GGAGTTGGCTGACAGCAGTGGCAGAGTGGTCAGAGAGAAGTGGTCAGCAGACATGTGGCGCTTGGGCTGC
CTCATTTGGGAAGTCTTCAATGGGCCCCACTCGGGCAGCAGCCCTACGCAACCCTGGGAAGATCCCCA
AAACGCTGGTGGCCATTACTGTGAGCTGGTGGGAGCAAACCCCAAGGTGCGTCCCAACCAGCCCGCTT
CCTGCAGAACTGCCGGGACCTGGTGGCTTCATGAGCAACCGCTTGTAGAAACCAACCTTCTCCTGGAG
GAGATTAGATCAAGAGCCAGCCGAGAAGCAAAAATTCTTCCAGGAGCTGAGCAAGAGCCTGGAGCGAT
TCCCTGAGGATTTCTGTGCGCACAAAGTGTGCCCCAGCTGCTGACCGCCTTCGAGTTCCGCAATGCTGG
GGCCGTTGTCTCACGCCCTCTTCAAGGTGGGCAAGTTCCTGAGCGCTGAGGAGTATCAGCAGAAGATC
ATCCCTGTGGTGGTCAAGATGTTCTCATCCACTGACCGGGCCATGCGCATCCGCCTCCTGCAGCAGATGG
AGCAGTTCATCCAGTACCTTGACGAGCCAACAGTCAACACCCAGATCTTCCCCACGTCGTACATGGCTT
CCTGGACACCAACCCTGCCATCCGGGAGCAGACGGTCAAGTCCATGCTGCTCCTGGCCCCAAGCTGAAC
GAGGCCAACCTCAATGTGGAGCTGATGAAGCACTTTGCACGGCTACAGGCCAAGGATGAACAGGGCCCCA
TCCGCTGCAACACCACAGTCTGCCTGGGCAAAAATCGGCTCCTACCTCAGTGCTAGCACCAGACACAGGGT
CCTTACCTCTGCCTTCAGCCGAGCCACTAGGGACCCGTTTGCACCGTCCCGGGTTCGGGGTGTCTGGGC
TTTGTGCCACCCACAACCTCTACTCAATGAACGACTGTGCCAGAAGATCCTGCCTGTGCTCTGCGGTG
TCACTGTAGATCCTGAGAAATCCGTGCGAGACCAGGCCTTCAAGGCCATTCGGAGCTTCTGTCCAAATT
GGAGTCTGTGTCGGAGGACCCGACCCAGCTGGAGGAAGTGGAGAAGGATGTCATGCAGCCTCCAGCCCT
GGCATGGGAGGAGCCGAGCTAGCTGGCAGGCTGGGCCGTGACCGGGTCTCCTACTCACCTCCAAGC
TGATCCGTTTCGCACCCAACCACTGCCCCAACAGAAACCAACATTCCCCAAAGACCCACGCCTGAAGGAGT
TCCTGCCCCAGCCCCACCCCTGTTCTGCCACCCTACAACCTCAGGCCACTGGGAGACGCAGGAGGAG
GACAAGGACACAGCAGAGGACAGCAGCACTGCTGACAGATGGGACGACGAAGACTGGGGCAGCCTGGAGC
AGGAGGGCCGAGTCTGTGCTGGCCAGCAGGACGACTGGAGCACCGGGGGCCAAGTGAAGCCTGTAGTCA
GGTCAGCAACTCCGACCACAATCCTCCAAATCCCCAGAGTCCGACTGGAGCAGCTGGGAAGCTGAGGGC
TCTTGGGAACAGGGCTGGCAGGACCAAGCTCCCAGGAGCCACCTCCTGACGGTACACGGCTGGCCAGCG
AGTATAACTGGGGTGGCCAGAGTCCAGCGACAAGGGCGACCCCTTCGCTACCCTGTCTGCACGTCCCAG
CACCCAGCCGAGGCCAGACTCTTGGGGTGAAGCAACTGGGAGGGCTCGAGACTGACAGTGCACAGGTC
AAGGCTGAGCTGGCCCGAAGAAGCGCGAGGAGCGGGCGGGGAGATGGAGGCCAACCGCCGAGAGGA
AGGTGGCCAAGGGCCCCATGAAGCTGGGAGCCCGAAGCTGGACTGA
```

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_020680 unedited  
 TGGATTTTGTAAATACGACTTACTATAGGGCGGCCGGAATTCGGCACGAGGCCGAGCTTG  
 AGCAGTATGACCCCCGGAGTTGGCTGACAGCAGTGGCAGAGTGGTCAGAGAGAAGTGGT  
 CAGCAGACATGTGGCGCTTGGGCTGCCTCATTTGGGAAGTCTTCAATGGGCCCTACCTC  
 GGGCAGCAGCCCTACGCAACCCTGGGAAGATCCCCAAAACGCTGGTGCCCCATTACTGTG  
 AGCTGGTGGGAGCAAACCCCAAGGTGCGTCCCAACCCAGCCCGCTTCTGCAGAAGTGGC  
 GGGCACCTGGTGGCTTCATGAGCAACCGCTTTGTAGAAAACCAACCTCTTCTGGAGGAGA  
 TTCAGATCAAAGAGCCAGCCGAGAAGCAAAAATTCTTCCAGGAGCTGAGCAAGAGCCTGG  
 ACGCATTCCCTGAGGATTTCTGTGCGCACAAAGGTGCTGCCCCAGCTGCTGACCGCTTCG  
 AGTTTCGGCAATGCTGGGGCCGTTGCTCCTCACGCCCTCTTCAAGGTGGGCAAGTCTCTGA  
 GCGCTGAGGAGTATCAGCAGAAGATCATCCCTGTGGTGGTCAAGATGTTCTCATCCACTG  
 ACCGGGCCATGCGCATCCGCCTCCTGCAGCAGATGGAGCAGTTCATCCAGTACCTTGACG  
 AGCCAACAGTCAACACCCAGATCTTCCCCACGTCGTACATGNGCTTCTGGACACCAAC  
 CCTGCCATCCGGGAGCAGACGGTCAAGTCCATGCTGCTCCTGGCCCCAAGCTGAAGAGGC  
 CAACCTCATGTGGAGCTGATGAAGCACTTACGGCTACAGCCAAGATGACAGGGCCCATC  
 GCTGCACACCCAGTCTGCTGGCAAATCGCTCTACTCATGTACT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_020680 unedited  
 ACCGAAGGCCGCNATCNATAGTCGAGTTTTTTTTTTTTTTTTTTTGTGAAATAGAATTTAT  
 TGTGGCTCTGATTATGTACACGTGAGATGGCTGGCTGGGCCGGCCGGGCTCACATGGTT  
 TGTACAATAAATACATCTGTGGGGCGGGCTCTCCGCAGCCGGGAAGGGCCACCGCCACGG  
 TTCAGTCCAGCTTCCGGGCTCCCAGCTTCATGGGGCCCTTGCCACCTTCTCTCGGGGC  
 GTTTGGCTCCATCTCCCGCCGCGCTCCTCGCGCTTCTCCGGGCCAGCTCAGCCTTGA  
 CGACTGTCACTCGAGGCCCTCCCAGTTGCTCCTCACCCCAAGAGTCTGGCCTCGGCTGG  
 GTGCTGGGACGTGCAAACAGGGTAGCGAAGGGGTGCGCCTTGTGCTGGACTCTGGGCCA  
 CCCCAGTTATACTCGCTGGCCAGCCGTGTACCGTCAGGAGGTGGCTCCTGGGAGCTTGGC  
 TCCTGCCAGCCCTGTTCCCAGGAGCCCTCAGCTTCCCAGCTGCTCCAGTCCGACTCTGGG  
 GATTTGGAGGATTTGTGGTCCGAGTTGCTGACCTGTACAAGAGCGGGAAGGGGAAGTACC  
 CCTGGGCCCAAGGAGAAAGAGCCATTACCCACCTTCCCACCCGAACCAGCTTACCTG  
 ACTAACCCGGGTCACTTGGCCCCGGTGTCCAATCGTTCCGTTTGGGCCCCCAAGACTC  
 CGCTTCCCTTGTTCAGTCCCCCACTCCTCACCGTCCCTACGTGCATAAGTTTTGTGTGTC  
 CTCTTCTACGCCTCCTGCCTCTCCCTGCGGCCTCCCACGGGCTTTTGTGTTTTTTTTTG  
 GCCGACTCAGTCTTCTCCTCCTCGTATGCGTTCTCCCCCCCCCCCCCTGTCTATTT  
 CTTACCCCTCCCTCCCCACTTTCCTATTAA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_020680

**Insert Size:**

2440 bp

**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](#)

**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\\_020680.2](#), [NP\\_065731.2](#)

**RefSeq Size:** 2667 bp

**RefSeq ORF:** 2667 bp

**Locus ID:** 57410

**UniProt ID:** [Q96KG9](#)

**Cytogenetics:** 11q13.1

**Protein Families:** Druggable Genome, Protein Kinase

**Gene Summary:** This gene encodes a transcriptional regulator belonging to the SCY1-like family of kinase-like proteins. The protein has a divergent N-terminal kinase domain that is thought to be catalytically inactive, and can bind specific DNA sequences through its C-terminal domain. It activates transcription of the telomerase reverse transcriptase and DNA polymerase beta genes. The protein has been localized to the nucleus, and also to the cytoplasm and centrosomes during mitosis. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (A) represents the longer transcript and encodes the longer isoform (A).