

Product datasheet for **SC315461**

STIL (NM_001048166) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Tag: Tag Free

Symbol: STIL

Synonyms: MCPH7; SIL

Vector: pCMV6 series

Fully Sequenced ORF: >NCBI ORF sequence for NM_001048166, the custom clone sequence may differ by one or more nucleotides

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ATGGAGCCTATATCCTTTTGCACGGCCCCAGATGAATACCAGGTTTCCTTCAAGCAGG
ATGGTACCTTTCCACTTTCCTCCATCAAAATGTGCACTTTGGAACCCAACGCCAACTGGA
GATTTTCATCTACTTACATCTCAGTTACTACAGAAATCCAAAGCTTGTGGTGACTGAGAAG
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GATTCTTGGACTGTGGTAAGCTGCTTTCCCTAAGAGTTCATATCACTTCCAGGGAGAGT
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AACGTTTGACAGGTGTTGTCAGCATCATAGTCATATTCAATATAGTCCGCTAAATTCTTGG
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CAAGGAGCAAAACAGTTGGATCCATTCAAGATGTCCAGTCTGAAGCCCTTCAAAAGCAT
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AGTCCTATAGCCTTGAGACCTCAGGAGATATGGGAGTGTCTCTCCACAGCAATATT
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AAGAACCTTAAACCAAGTCTGCAGTGAACCTTCGAACCGGAAAGCAGAGTCACTCAA
CATCCTGAGAAAGAAAAATGAAGGGGACATTACAATTTTCTGAAAGTTTGCAACCTTCT
GAAACGCTAAAGCAGATGAATAGCATGAATTCAGTAGGCACCTTCTTAGATGTAACCGT
CTCAGACAGTTACCAAAATTATTT

Restriction Sites:

Please inquire

ACCN:

NM_001048166

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001048166.1, NP_001041631.1</u>
RefSeq Size:	5019 bp
RefSeq ORF:	3867 bp
Locus ID:	6491
UniProt ID:	<u>Q15468</u>
Cytogenetics:	1p33
Gene Summary:	This gene encodes a cytoplasmic protein implicated in regulation of the mitotic spindle checkpoint, a regulatory pathway that monitors chromosome segregation during cell division to ensure the proper distribution of chromosomes to daughter cells. The protein is phosphorylated in mitosis and in response to activation of the spindle checkpoint, and disappears when cells transition to G1 phase. It interacts with a mitotic regulator, and its expression is required to efficiently activate the spindle checkpoint. It is proposed to regulate Cdc2 kinase activity during spindle checkpoint arrest. Chromosomal deletions that fuse this gene and the adjacent locus commonly occur in T cell leukemias, and are thought to arise through illegitimate V-(D)-J recombination events. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (1) encodes the longest isoform (1).