

## Product datasheet for **SC115872**

### STIP1 (NM\_006819) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	STIP1 (NM_006819) Human Untagged Clone
Tag:	Tag Free
Symbol:	STIP1
Synonyms:	HEL-S-94n; HOP; IEF-SSP-3521; P60; STI1; STI1L
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:** >OriGene ORF within SC115872 sequence for NM\_006819 edited (data generated by NextGen Sequencing)

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ATGGAGCAGGTCAATGAGCTGAAGGAGAAAGGCAACAAGGCCCTGAGCGTGGGTAACATC
GATGATGCCTTACAGTGTACTCCGAAGCTATTAAGCTGGATCCCCACAACCACGTGCTG
TACAGCAACCGTTCTGCTGCCTATGCCAAGAAAGGAGACTACCAGAAGGCTTATGAGGAT
GGCTGCAAGACTGTGACCTAAAGCCTGACTGGGGCAAGGGCTATTCACGAAAAGCAGCA
GCTCTAGAGTTCTTAAACCGCTTTGAAGAAGCCAAGCGAACCTATGAGGAGGGCTTAAAA
CACGAGGCAAATAACCTCAACTGAAAGAGGGTTTACAGAATATGGAGGCCAGGTTGGCA
GAGAGAAAATTCATGAACCTTTCAACATGCCTAATCTGTATCAGAAGTTGGAGAGTGAT
CCCAGGACAAGGACACTACTCAGTGATCCTACCTACCGGGAGCTGATAGAGCAGCTACGA
AACAAAGCCTTCTGACCTGGGCACGAACTACAAGATCCCCGGATCATGACCACTCTCAGC
GTCCTCCTTGGGGTCTGATCTGGGCAGTATGGATGAGGAGGAAGAGATTGCAACACCTCCA
CCACCACCCCTCCAAAAAGGAGACCAAGCCAGAGCCAATGGAAGAAGATCTTCCAGAG
AATAAGAAGCAGGCACTGAAAGAAAAAGAGCTGGGGAACGATGCCTACAAGAAGAAAGAC
TTTGACACAGCCTTGAAGCATTACGACAAAGCCAAGGAGCTGGACCCCACTAACATGACT
TACATTACCAATCAAGCAGCGGTATACTTTGAAAAGGGCGACTACAATAAGTGCCGGGAG
CTTTGTGAGAAGGCCATTGAAGTGGGGAGAGAAAACCGAGAAGACTATCGACAGATTGCC
AAAGCATATGCTCGAATTGGCAACTCCTACTTCAAAGAAGAAAAGTACAAGGATGCCATC
CATTTCTATAACAAGTCTCTGGCAGAGCACCGAACCCAGATGTGCTCAAGAAATGCCAG
CAGGCAGAGAAAATCCTGAAGGAGCAAGAGCGGCTGGCCTACATAAACCCCGACCTGGCT
TTGGAGGAGAAGAACAAGGCAACGAGTGTTCAGAAAGGGGACTATCCCAGGCCATG
AAGCATTATACAGAAGCCATCAAAGGAACCCGAAAGATGCCAAATTATACAGCAATCGA
GCTGCTGCTACACCAAACCTCTGGAGTTCAGCTGGCACTCAAGGACTGTGAGGAATGT
ATCCAGCTGGAGCCGACCTTCATCAAGGTTTATACACGGAAGCCGCTGCGCTGGAAGCG
ATGAAGGACTACACCAAAGCCATGGATGTGTACCAGAAGGCGCTAGACCTGGACTCCAGC
TGTAAGGAGGCGGACAGCGCTACCAGCGCTGTATGATGGCGCAGTACAACCGGCACGAC
AGCCCCGAAGATGTGAAGCGACGAGCCATGGCCGACCCTGAGGTGCAGCAGATCATGAGT
GACCCAGCCATGCGCCTTATCCTGGAACAGATGCAGAAGGACCCCAAGGCACTCAGCGAA
CACTTAAAGAATCCTGTAATAGCACAGAAGATCCAGAAGCTGATGGATGTGGGTCTGATT
GCAATTCGGTGA
    
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Clone variation with respect to NM\_006819.2

**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_006819 unedited
GTTANCATTTGTATACGACTCACTATAGGCGGCCGCGAATTCGCACGAGGGCGGCGCGTG
CGGTTGGGAACCGGAGCGGACGGATTTCGATTCAACGGGGTCCGGACCGCGCTGCGCTA
TGGAGCAGGTCAATGAGCTGAAGGAGAAAGGCAACAAGGCCCTGAGCGTGGGTAACATCG
ATGATGCCTTACAGTGTACTCCGAAGCTATTAAGCTGGATCCCCACAACCACGTGCTGT
ACAGCAACCGTTCTGCTGCCTATGCCAAGAAAGGAGACTACCAGAAGGCTTATGAGGATG
GCTGCAAGACTGTGACCTAAAGCCTGACTGGGGCAAGGGCTATTCACGAAAAGCAGCAG
CTCTAGAGTTCTTAAACCGCTTTGAAGAAGCCAAGCGAACCTATGAGGAGGGCTTAAAAAC
ACGAGGCAAATAACCTCAACTGAAAGAGGGTTTACAGAATATGGAGGCCAGGTTGGCAG
AGAGAAAATTCATGAACCTTTCAACATGCCTAATCTGTATCAGAAGTTGGAGAGTGATC
CCAGGACAAGGACACTACTCAGTGATCCTACCTACCGGGAGCTGATAGAGCAGCTACGAA
ACAAGCCTTCTGACCTGNGCACGAAACTACAAGATCCCCGGATCATGACCACTCTCAGCG
TCCTCCTTGGGGTCTGATCTGGGCAGTATGGATGAGGAGGAAGAGATTGCAACACCTNCAC
CACCNAACCCCTCCAAAAAGGAGACCAAGCCAGAGCCAATGGAAGAAGATCTTCCAGAGA
ATAAGAAGCAGGCACTGAAAGACAAGACTGGGGAACGATGCCCTACAGAAAGAAGACCT
TGACACAGCCTTGAAGCATTACGACAAAGCCAAGGAGCTGGACCCNACTACATGACTTA
CATTACCAATCAGCAGCGGTATACTTTGAN
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_006819 unedited AGCTATGNCCGCGGCCGCAATCTAGNAGTCGGTTTTTTTTTTTTTTTTTTTAAACCACGCC CAACTGGGGCTTGTTTTATTGGGAGAAAGGGGACCGCAGAATAAACAACGTGAGACAGC TGGGACCTGAGGCTGGAAGAACCCCTCCCCTCCCATAACATGCCCACTGCCCAAATA AAAAAAAAACCAACTATGGGAGAGCAGCCGAGACAGCAACTAGGGGCAGGGGAAAGAGAC ATGGAACCTCGAGGGCAGCGGTGAAGAGACCATGCGTGTGCTGGGAGGGCCAGAGGCAGC GGCGGCACAAACAGCGCAGGTACGAGTCTCTGTGTCTTCCCCTGGGTTATGTATAAATAT AGAGAGATGAGGCCTTCTCTCCCCTGCTCTCCCTTCCGCTCCGCTGCTGCTCGCCGCGTC CCAGCTCCTCTTTCCACATGAGGGCGAAGGGAAGGGGGATGAACAAGTCATCACCGAAT TGCAATCAGACCCACATCCATCAGCTTCTGGATCTTCTGTGCTATTACAGGATTCTTTAA GTGTTGCTGAGTGCCTGGGGTCTTCTGCATCTGTTCCAGGATAAGGCGCATGGCTGG GTCATCATGATCTGCTGCACCTCAGGGTCGGCCATGGCTCGTCGCTTACATCTTCGGG GCTGTCGTGCCGTTGTACTGCGCCATCATACAGCGCTGGTAGCCGCTGCGCCCTCCTT ACAGCTGGAGTCCAGGTCTAGCGCCTTCTGGTACACATCCATGGCTTTGGTGTAGTCCTT CATCGCTCCAGCGCAGCGGCTTCCGTGTATACCCTTGATGAAGGGTCGCTCAGCTGGA ACATNNTCACATCCTTTGATGCAGCTGGAACCTCAGAGTTGGTGTACAGGCGCTCGAT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_006819
<b>Insert Size:</b>	2440 bp
<b>OTI Disclaimer:</b>	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).
<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>	<a href="#">NM_006819.1</a> , <a href="#">NP_006810.1</a>
<b>RefSeq Size:</b>	2113 bp
<b>RefSeq ORF:</b>	1632 bp
<b>Locus ID:</b>	10963
<b>UniProt ID:</b>	<a href="#">P31948</a>
<b>Cytogenetics:</b>	11q13.1
<b>Domains:</b>	TPR, STI1
<b>Protein Families:</b>	Stem cell - Pluripotency
<b>Protein Pathways:</b>	Prion diseases

**Gene Summary:**

STIP1 is an adaptor protein that coordinates the functions of HSP70 (see HSPA1A; MIM 140550) and HSP90 (see HSP90AA1; MIM 140571) in protein folding. It is thought to assist in the transfer of proteins from HSP70 to HSP90 by binding both HSP90 and substrate-bound HSP70. STIP1 also stimulates the ATPase activity of HSP70 and inhibits the ATPase activity of HSP90, suggesting that it regulates both the conformations and ATPase cycles of these chaperones (Song and Masison, 2005 [PubMed 16100115]).[supplied by OMIM, Jul 2009]

Transcript Variant: This variant (2) uses an alternate 5' terminal exon and thus differs in the 5' UTR and 5' coding region, and uses an alternate start codon, compared to variant 1. The encoded isoform (b) has a distinct N-terminus and is shorter than isoform a.