

## Product datasheet for **RG201084**

### STIP1 (NM\_006819) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	STIP1 (NM_006819) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	STIP1
Synonyms:	HEL-S-94n; HOP; IEF-SSP-3521; P60; STI1; STI1L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG201084 representing NM\_006819  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGCAGGTCAATGAGCTGAAGGAGAAAGGCAACAAGCCCTGAGCGTGGGTAACATCGATGATGCCT  
 TACAGTGCTACTCCGAAGCTATTAAGCTGGATCCCCACAACCACGTGCTGTACAGCAACCGTTCTGCTGC  
 CTATGCCAAGAAAGGAGACTACCAAGGCTTATGAGGATGGCTGCAAGACTGTCGACCTAAAGCCTGAC  
 TGGGGCAAGGGCTATTCAGAAAAGCAGCAGCTCTAGAGTTCTTAAACCGCTTTGAAGAAGCAAGCGAA  
 CCTATGAGGAGGGCTTAAACACGAGGCAATAACCCTCAACTGAAAGAGGGTTTACAGAATATGGAGGC  
 CAGGTTGGCAGAGAGAAAATTCATGAACCTTTCAACATGCCTAATCTGTATCAGAAGTTGGAGAGTGAT  
 CCCAGGACAAGGACTACTCAGTGATCCTACCTACCGGAGCTGATAGAGCAGCTACGAAACAAGCCTT  
 CTGACCTGGGCACGAAACTACAAGATCCCCGGATCATGACCACTCTCAGCGTCTCCTTGGGGTTCGATCT  
 GGGCAGTATGGATGAGGAGGAAGAGATTGCAACACCTCCACCACCACCCCTCCCAAAAAGGAGACCAAG  
 CCAGAGCCAATGGAAGAAGATCTTCAGAGAATAAGAAGCAGGCACTGAAAGAAAAAGAGCTGGGGAACG  
 ATGCCTACAAGAAGAAAGACTTTGACACAGCCTTGAAGCATTACGACAAAAGCCAAGGAGCTGGACCCAC  
 TAACATGACTTACATTACCAATCAAGCAGCGGTATACTTTGAAAAGGGCGACTACAATAAGTGCCGGGAG  
 CTTTGTGAGAAGGCCATTGAAGTGGGGAGAGAAAACCGAGAAGACTATCGACAGATTGCCAAAGCATATG  
 CTCGAATTGGCAACTCCTACTTCAAAGAAGAAAAGTACAAGGATGCCATCCATTTCTATAACAAGTCTCT  
 GGCAGAGCACCGAACCCAGATGTGCTCAAGAAATGCCAGCAGGCAGAGAAAATCCTGAAGGAGCAAGAG  
 CGGCTGGCCTACATAAACCCCGACTGGCTTTGGAGGAGAAGAAACAAAGGCAACGAGTGTTTTCAGAAAG  
 GGGACTATCCCCAGGCCATGAAGCATTATACAGAAGCCATCAAAGGAACCCGAAAGATGCCAAATTATA  
 CAGCAATCGAGCTGCCTGCTACACCAAACCTCCTGGAGTTCAGCTGGCACTCAAGGACTGTGAGGAATGT  
 ATCCAGCTGGAGCCGACCTTCATCAAGGTTATACACGAAAGCCGCTGCGCTGGAAGCGATGAAGGACT  
 ACACCAAAGCCATGGATGTGTACCAGAAGGCGCTAGACCTGGACTCCAGCTGTAAGGAGGCGGCAGACGG  
 CTACCAGCGTGTATGATGGCGCAGTACAACCGGCACGACAGCCCGAAGATGTGAAGCGACGAGCCATG  
 GCCGACCCTGAGGTGCAGCAGATCATGAGTGACCCAGCCATGCGCCTTATCCTGGAACAGATGCAGAAGG  
 ACCCCAGGCACTCAGCGAACACTTAAAGAATCCTGTAATAGCACAGAAGATCCAGAAGCTGATGGATGT  
 GGGTCTGATTGCAATTCG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG201084 representing NM\_006819  
 Red=Cloning site Green=Tags(s)

MEQVNELKEKGNKALSVGNIDDALQCYSEAIKLDPHNHVLYSNRSAAYAKKGDYQKAYEDGCKTVDLKPD  
 WGKGYSRKAALAEFLNRFEEAKRTYEEGLKHEANNPQLKEGLQNMEARLAERKFMNPFNMPNLYQKLESD  
 PRTRTLLSDPTYRELIEQLRNKPSDLGTLKQDPRIMTTLVLLGVDLGSMDEEEEIATPPPPPPPKKETK  
 PEPMEEDLPENKKQALKEKELGNDAYKKKDFDTALKHYDKAKELDPTNMTYITNQAAVYFEKGDYKNCRE  
 LCEKAIIEVGRENREDYRQIAKAYARIGNSYFKEEKYKDAIHFYKSLAEHRTPDVLKCCQQAQEKILKEQE  
 RLAYINPDLALEEKNKGNECFQKGDYPQAMKHYTEAIKRNPKDAKLYSNRAACYTKLLEFQLALKDCEEC  
 IQLEPTFIKGYTRKAAALEAMKDYTKAMDVYQKALDLSSCKEADGYQRCMAQYNRHDSPELVKRRAM  
 ADPEVQQIMSDPAMRLILEQMOKDPQALSEHLKNPVIAQKIQKLMVGLIAIR

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

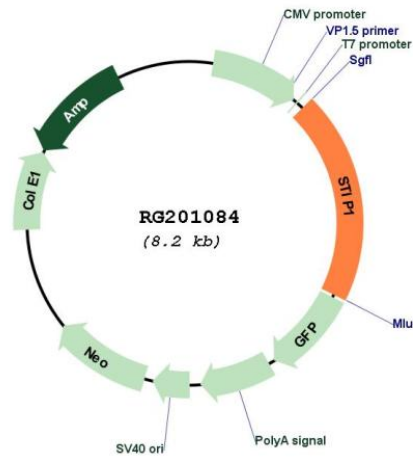
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



<b>ACCN:</b>	NM_006819
<b>ORF Size:</b>	1629 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_006819.3</a>
<b>RefSeq Size:</b>	2219 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
<b>Gene Summary:</b>	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]