

Product datasheet for **RC201084**

STIP1 (NM_006819) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STIP1 (NM_006819) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	STIP1
Synonyms:	HEL-S-94n; HOP; IEF-SSP-3521; P60; STI1; STI1L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC201084 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGCAGGTCAATGAGCTGAAGGAGAAAGGCAACAAGCCCTGAGCGTGGGTAACATCGATGATGCCT
 TACAGTGTACTCCGAAGCTATTAAGCTGGATCCCCACAACCACGTGCTGTACAGCAACCGTTCTGCTGC
 CTATGCCAAGAAAGGAGACTACCAGAAGCCTTATGAGGATGGCTGCAAGACTGTCGACCTAAAGCCTGAC
 TGGGGCAAGGGCTATTCAGAAAAGCAGCAGCTCTAGAGTTCTTAAACCCTTTGAAGAAGCAAGCGAA
 CCTATGAGGAGGGCTTAAACACGAGGCAATAACCCTCAACTGAAAGAGGGTTTACAGAATATGGAGGC
 CAGGTTGGCAGAGAGAAAATTCATGAACCTTTCAACATGCCTAATCTGTATCAGAAGTTGGAGAGTGAT
 CCCAGGACAAGGACTACTCAGTGATCCTACCTACCGGAGCTGATAGAGCAGCTACGAAACAAGCCTT
 CTGACCTGGGCACGAAACTACAAGATCCCCGGATCATGACCACTCTCAGCGTCTCCTTGGGGTTCGATCT
 GGGCAGTATGGATGAGGAGGAAGAGATTGCAACACCTCCACCACCACCCCTCCCAAAAAGGAGACCAAG
 CCAGAGCCAATGGAAGAAGATCTTCAGAGAATAAGAAGCAGGCACTGAAAGAAAAGAGCTGGGGAACG
 ATGCCTACAAGAAGAAAGACTTTGACACAGCCTTGAAGCATTACGACAAAAGCCAAGGAGCTGGACCCAC
 TAACATGACTTACATTACCAATCAAGCAGCGGTATACTTTGAAAAGGGCGACTACAATAAGTGCCGGGAG
 CTTTGTGAGAAGGCCATTGAAGTGGGGAGAGAAAACCGAGAAGACTATCGACAGATTGCCAAAGCATATG
 CTCGAATTGGCAACTCTACTTCAAAGAAGAAAAGTACAAGGATGCCATCCATTTCTATAACAAGTCTCT
 GGCAGAGCACCGAACCCAGATGTGCTCAAGAAATGCCAGCAGGCAGAGAAAATCCTGAAGGAGCAAGAG
 CGGCTGGCTACATAAACCCCGACTGGCTTTGGAGGAGAAGAACAAAGGCAACGAGTGTTCAGAAAG
 GGGACTATCCCCAGGCCATGAAGCATTATACAGAAGCCATCAAAGGAACCCGAAAGATGCCAAATTATA
 CAGCAATCGAGCTGCCTGCTACACCAAACCTCTGGAGTTCAGCTGGCACTCAAGGACTGTGAGGAATGT
 ATCCAGCTGGAGCCGACCTTCATCAAGGGTTATACACGAAAGCCGCTGCGCTGGAAGCGATGAAGGACT
 ACACAAAGCCATGGATGTGTACCAGAAGGCGCTAGACCTGGACTCCAGCTGTAAGGAGGCGGCAGACGG
 CTACCAGCGTGTATGATGGCGCAGTACAACCGGCACGACAGCCCGAAGATGTGAAGCGACGAGCCATG
 GCCGACCCTGAGGTGCAGCAGATCATGAGTGACCCAGCCATGCGCCTTATCCTGGAACAGATGCAGAAGG
 ACCCCAGGCACTCAGCGAACACTTAAAGAATCCTGTAATAGCACAGAAGATCCAGAAGCTGATGGATGT
 GGGTCTGATTGCAATTCG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC201084 protein sequence
 Red=Cloning site Green=Tags(s)

MEQVNELKEKGNKALSVGNIDDLQCYSEAIKLDPHNHVLYSNRSAAYAKKGDYQKAYEDGCKTVLDLKP
 WKGYSRKAALAEFLNRFEEAKRTYEEGLKHEANNPQLKEGLQNMEARLAERKFMNPFNMPNLYQKLESD
 PRTRTLLSDPTYRELIEQLRNKPSDLGTLKQDPRIMTTLVLLGVDLGSMDEEEEIATPPPPPPPKKTK
 PEPMEEDLPENKKQALKEKELGNDAYKKKDFDTALKHYDKAKELDPTNMTYITNQAAVYFEKGDYKNCRE
 LCEKAIIEVGRENREDYRQIAKAYARIGNSYFKEEKYKDAIHFYKSLAEHRTPDVLKCCQQAQEKILKEQE
 RLAYINPDLALEEKNKGNECFQKGDYPQAMKHYTEAIKRNPKDAKLYSNRAACYTKLLEFQLALKDCEEC
 IQLEPTFIKGYTRKAAALEAMKDYTKAMDVYQKALDLSSCKEADGYQRCMAQYNRHDSPELVKRRAM
 ADPEVQQIMSDPAMRLILEQMOKDPQALSEHLKNPVIAQKIQKLMVGLIAIR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6083_e02.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_006819

ORF Size: 1629 bp

OTI Disclaimer: 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

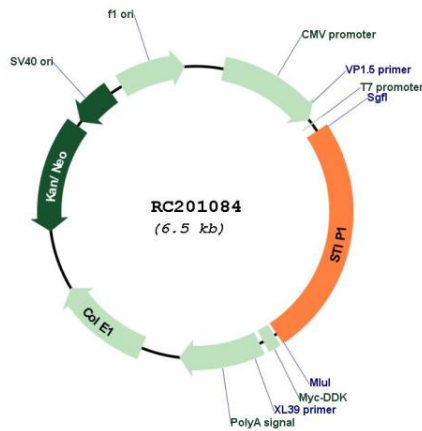
RefSeq: [NM_006819.3](#)
RefSeq Size: 2219 bp

RefSeq ORF: 1632 bp

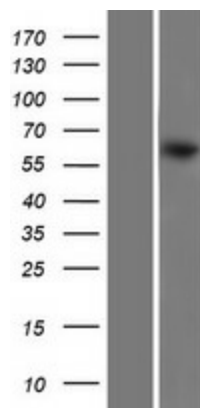
Locus ID: 10963

UniProt ID: [P31948](#)

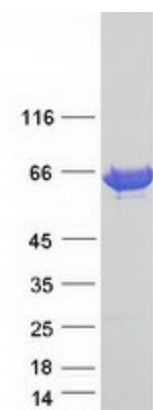
Cytogenetics: 11q13.1
Domains: TPR, STI1
Protein Families: Stem cell - Pluripotency
Protein Pathways: Prion diseases
MW: 62.6 kDa
Gene Summary: STIP1 is an adaptor protein that coordinates the functions of HSP70 (see HSPA1A; MIM 140550) and HSP90 (see HSP90AA1; MIM 140571) in protein folding. It is thought 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]

Product images:


Circular map for RC201084



Western blot validation of overexpression lysate (Cat# [LY416401]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201084 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified STIP1 protein (Cat# [TP301084]). The protein was produced from HEK293T cells transfected with STIP1 cDNA clone (Cat# RC201084) using MegaTran 2.0 (Cat# [TT210002]).