

Product datasheet for **RC238694**

STIP1 (NM_001282653) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STIP1 (NM_001282653) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	STIP1
Synonyms:	HEL-S-94n; HOP; IEF-SSP-3521; P60; STI1; STI1L
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC238694 representing NM_001282653
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGCAGGTCAATGAGCTGAAGGAGAAAGGCAACAAGCCCTGAGCGTGGGTAACATCGATGATGCCT
 TACAGTGTACTCCGAAGCTATTAAGCTGGATCCCCACAACCACGTGCTGTACAGCAACCGTTCTGCTGC
 CTATGCCAAGAAAGGAGACTACCAGAAGCTTATGAGGATGGCTGCAAGACTGTCGACCTAAAGCCTGAC
 TGGGGCAAGGGCTTAAACACGAGGCAAATAACCTCAACTGAAAGAGGGTTTACAGAATATGGAGGCCA
 GGTTGGCAGAGAGAAAATTCATGAACCTTTCAACATGCCTAATCTGTATCAGAAGTTGGAGAGTATCC
 CAGGACAAGGACACTACTCAGTGATCCTACCTACCGGGAGCTGATAGAGCAGCTACGAAACAAGCCTTCT
 GACCTGGGCACGAACTACAAGATCCCCGGATCATGACCACTCTCAGCGTCTCCTTGGGGTCGATCTGG
 GCAGTATGGATGAGGAGGAAGAGATTGCAACACCTCCACCACCACCCCTCCAAAAAGGAGACCAAGCC
 AGAGCCAATGGAAGAAGATCTTCCAGAGAATAAGAAGCAGGCACGTAAAGAAAAAGAGCTGGGGAACGAT
 GCCTACAAGAAGAAAGACTTTGACACAGCCTTGAAGCATTACGACAAAGCCAAGGAGCTGGACCCCACTA
 ACATGACTTACATTACCAATCAAGCAGCGGTATACTTTGAAAAGGGCGACTACAATAAGTGCCGGGAGCT
 TTGTGAGAAGGCCATTGAAGTGGGGAGAGAAAACCGAGAAGACTATCGACAGATTGCCAAAGCATATGCT
 CGAATTGGCAACTCTACTTCAAAGAAGAAAAGTACAAGGATGCCATCCATTTCTATAACAAGTCTCTGG
 CAGAGCACCGAACCCAGATGTGCTCAAGAAATGCCAGCAGGCAGAGAAAATCCTGAAGGAGCAAGAGCG
 GCTGGCTACATAAACCCGACCTGGCTTTGGAGGAGAAGAACAAGGCAACGAGTGTTCAGAAAAGGG
 GACTATCCCAGGCCATGAAGCATTATACAGAAGCCATCAAAGGAACCCGAAAGATGCCAAATTATACA
 GCAATCGAGTGCCTGTACACCAAACCTCTGGAGTTCAGCTGGCACTCAAGGACTGTGAGGAATGTAT
 CCAGCTGGAGCCGACCTTCATCAAGGGTTATACACGGAAAAGCCGCTGCGCTGGAAGCGATGAAGGACTAC
 ACCAAAGCCATGGATGTGTACCAGAAGGCCTAGACCTGGACTCCAGCTGTAAGGAGGCGCAGACGGCT
 ACCAGCGTGTATGATGGCGCAGTACAACCGGCACGACAGCCCCGAAGATGTGAAGCGACGAGCCATGGC
 CGACCCTGAGGTGCAGCAGATCATGAGTGACCCAGCCATGCGCCTTATCCTGGAACAGATGCAGAAGGAC
 CCCAGGCACTCAGCGAACACTTAAAGAATCCTGTAAATAGCACAGAAGATCCAGAAGCTGATGGATGTGG
 GTCTGATTGCAATTCGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238694 representing NM_001282653
 Red=Cloning site Green=Tags(s)

MEQVNELKEKGNKALSVGNIDDALQCYSEAIKLDPHNHVLYSNRSAAAYAKKGDYQKAYEDGCKTVDLKPD
 WGKGLKHEANNPQLKEGLQNMEARLAERKFMNPFNMPNL YQKLESDPRTRTLLSDPTYRELIEQLRNKPS
 DLGTLKLDPRIMTTLVLLGVDLGSMDDEEEIATPPPPPPPKKTKPEPMEEDLPENKKQALKEKELGND
 AYKKKDFDTALKHYDKAKELDPTNMTYITNQAAYVFEKGDYINKCRELCEKAIIEVGRENREDYRQIAKAYA
 RIGNSYFKEEKYKDAIHFYNKSLAEHRTPDVLKCKQAEKILKEQERLAYINPDLALEEKNGNECFQKG
 DYPQAMKHYTEAIKRNPKDAKLYSNRAACYTKLLEFQLALKDCEECIQLEPTFIKGYTRKAAALEAMKDY
 TKAMDVYQKALDLDSCKEAADGYQRCMMAQYNRHDSPEDEVKRRAMADPEVQQIMSDPAMRLILEQMOKD
 PQALSEHLKNPVI AQKI QKLM DVGLIAIR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

ACCN:	NM_001282653
ORF Size:	1557 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:	<ol style="list-style-type: none">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_001282653.2
RefSeq Size:	2147 bp
RefSeq ORF:	1560 bp
Locus ID:	10963
UniProt ID:	P31948
Cytogenetics:	11q13.1
Protein Families:	Stem cell - Pluripotency
Protein Pathways:	Prion diseases
MW:	60.2 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]