

Product datasheet for **RG239010**

STIP1 (NM_001282652) Human Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | STIP1 (NM_001282652) 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) |



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ORF Nucleotide Sequence:

>RG239010 representing NM_001282652.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGAGTCCGGCAGCCCAATGGGAGAGGTGAAATTTCCAGAACGATCAGAACCAATGGGCGCGCCAG
CGCGGCTACGATTGGCAGTGCAAAAAGACCAATCCGTGTGCGAGAAGTTCGCTCCTCCCTCATTCTGTGG
AGCCTGAGATGGGTCAATGAGCTGAAGGAGAAAGGCAACAAGGCCCTGAGCGTGGGTAACATCGATGAT
GCCTTACAGTGCTACTCCGAAGCTATTAAGCTGGATCCCCACAACCACGTGCTGTACAGCAACCGTTCT
GCTGCCTATGCCAAGAAAGGAGACTACCAGAAGGCTTATGAGGATGGCTGCAAGACTGTCGACCTAAAG
CCTGACTGGGGCAAGGGCTATTCACGAAAAGCAGCAGCTCTAGAGTTCTTAAACCGCTTTGAAGAAGCC
AAGCGAACCTATGAGGAGGGCTTAAAACACGAGGCAAATAACCTCAACTGAAAGAGGGTTTACAGAAT
ATGGAGGCCAGGTTGGCAGAGAGAAAATTCATGAACCTTTCAACATGCCTAATCTGTATCAGAAGTTG
GAGAGTGATCCCAGGACAAGGACTACTCAGTGATCCTACCTACCGGGAGCTGATAGAGCAGCTACGA
AACAGCCTTCTGACCTGGGCACGAAACTACAAGATCCCGGATCATGACCACTCTCAGCGTCTCCTT
GGGGTCGATCTGGGCAGTATGGATGAGGAGGAAGAGATTGCAACACCTCCACCACCACCCCTCCAAA
AAGGAGACCAAGCCAGAGCCAATGGAAGAAGATCTTCCAGAGAATAAGAAGCAGGCACTGAAAGAAAAA
GAGCTGGGGAACGATGCCTACAAGAAGAAAGACTTTGACACAGCCTTGAAGCATTACGACAAAGCCAAG
GAGCTGGACCCCACTAACATGACTTACATTACCAATCAAGCAGCGGTATACTTTGAAAAGGGCGACTAC
AATAAGTGCCGGGAGCTTTGTGAGAAGGCCATTGAAGTGGGGAGAGAAAACCGAGAAGACTATCGACAG
ATTGCCAAAGCATATGCTCGAATTGGCAACTCTACTTCAAAGAAGAAAAGTACAAGGATGCCATCCAT
TTCTATAACAAGTCTCTGGCAGAGCACCGAACCCAGATGTGCTCAAGAAATGCCAGCAGGACAGAGAAA
ATCTGAAAGGAGCAAGAGCGGCTGGCCTACATAAACCCGACCTGGCTTTGGAGGAGAAGAAACAAGGC
AACGAGTGTTTTCAGAAAAGGGGACTATCCCCAGGCCATGAAGCATTATACAGAAGCCATCAAAGGAAC
CCGAAAGATGCCAAATTATACAGCAATCGAGCTGCCTGCTACACCAAACCTCTGGAGTTCAGCTGGCA
CTCAAGGACTGTGAGGAATGTATCCAGCTGGAGCCGACCTTATCAAGGGTTATACACGAAAGCCGCT
GCGCTGGAAGCGATGAAGGACTACACCAAAGCCATGGATGTGTACCAGAAGGCGCTAGACCTGGACTCC
AGCTGTAAGGAGGCGGCAGACGGCTACCAGCGCTGTATGATGGCGCAGTACAACCGGCACGACAGCCCC
GAAGATGTGAAGCGACGAGCCATGGCCGACCTGAGGTGCAGCAGATCATGAGTGACCCAGCCATGCGC
CTTATCCTGGAACAGATGCAGAAGGACCCCGAGCACTCAGCGAACACTTAAAGAATCCTGTAATAGCA
CAGAAGATCCAGAAGCTGATGGATGTGGGTCTGATTGCAATTCGG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence:

>Peptide sequence encoded by RG239010
 Blue=ORF Red=Cloning site Green=Tag(s)

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MESGSPMGEVEISRTIRTNNGRQRYDYDQCKRPIRVAEVRSSLHSWSLRWVWVNELKEKGNKALSVGNIDD
ALQCYSEAIKLDPHNHVLYSNRSAAAYAKKGDYQKAYEDGCKTVDLKPDWKGYSRKAALFLNRFEEA
KRTYEEGLKHEANNPQLKEGLQNMEARLAERKFMNPFNMPNLYQKLESDPRTRTLTSDPTYRELIEQLR
NKPSDLGTLKQDPRIMTTLVLLGVDLGSMDDEEEEIATPPPPPPPKKTKPEPMEEDLPENKQALKEK
ELGNDAYKKKDFDALKHYDKAKELDPTNMTYITNQAAYVEFKGDYNKCRELCEKAIIEVGRNREDRYRQ
IAKAYARIGNSYFKEEKYKDAIHFNKSLAEHRTPDVLKCKQQAELKEQERLAYINPDALAEKNKG
NECFQKGDYPQAMKHYTEAIKRNPKDAKLYSNRAACYTKLLEFQLALKDCEECIQLEPTFIKGYTRKAA
ALEAMKDYTKAMDVYQKALDLSSCKEADGYQRCMAQYNRHDSPEVDKRRAMADPEVQQIMSDPAMR
LILEQMOKDPQALSEHLKNPVIAQKIQLKMDVGLIAIR
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
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Restriction Sites:

SgfI-MluI

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|--------------------------|--|
| 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). |
| RefSeq: | NM_001282652.1 , NP_001269581.1 |
| RefSeq Size: | 2766 bp |
| RefSeq ORF: | 1773 bp |
| Locus ID: | 10963 |
| UniProt ID: | P31948 |
| Cytogenetics: | 11q13.1 |
| Protein Families: | Stem cell - Pluripotency |
| Protein Pathways: | Prion diseases |
| MW: | 68.5 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] |