

Product datasheet for **RC202467**

SGTB (NM_019072) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SGTB (NM_019072) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SGTB
Synonyms:	SGT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202467 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCATCTATCAAGCACCTGGTTTATGCAGTTATTCGTTTCTTACGGGAACAAAGTCAGATGGACACTT
ACACCTCGGATGAACAAGAAAGTTTGAAGTTGCAATTCAGTGCTTGGAGACAGTTTTTAAGATCAGCCC
AGAAGATACACACCTAGCAGTTTACAGCCTTTGACAGAAATGTTTACCAGTTCCTTCTGTAAGAATGAC
GTTCTGCCCTTTCAAACCTCAGTGCCTGAAGATGTGGAAAAGCTGACCAATTAAGATGAAGGCAATA
ACCACATGAAAGAAGAAAATTATGCTGCTGCAGTGGATTGTTACACACAGGCAATAGAATTGGATCCCAA
TAATGCAGTTTACTATTGCAACAGGGCTGCTGCTCAGAGCAAATTAGGTCACACAGATGCGATAAAG
GATTGTGAAAAAGCAATAGCAATTGATTCAAAGTACAGCAAGGCCTATGGGAGAATGGGGCTGGCCCTCA
CTGCCTTGAATAAATTTGAAGAAGCAGTTACAAGTTATCAAAGGCATTAGATCTTGACCCTGAAAATGA
TTCTATAAGTCAAATCTGAAAATAGCAGAACAGAAGTTAAGAGAGGTATCCAGTCTACAGGAAGTGG
CTGAGCTTTGACATGGCTAGCTTGATAAATAATCCAGCCTTCATTAGTATGGCGGCAAGTTAATGCAGA
ACCCTCAAGTTCAACAGCTAATGTCAGGAATGATGACAAATGCCATTGGGGACCTGCTGCTGGAGTTGG
GGGCCTAACTGACCTGTCAAGCCTCATCCAAGCGGGACAGCAGTTTGGCTCAGCAGATACAGCAACAAAAT
CCTGAACCTATAGAGCAACTGAGAAATCACATCCGGAGCAGATCATTAGCAGCAGCGCTGAAGAGCATT
CC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC202467 protein sequence
Red=Cloning site Green=Tags(s)

MSSIKHLVYAVIRFLREQSQMDTYTSDEQESLEVAIQCLETVFKISPEDTHLAVSQPLTEMFTSSFCKND
 VLPLSNSVPEDVGKADQLKDEGNNHMKREENYAAAVDCYTQAIELDPNNVYYCNRAAAQSKLGHYTDAIK
 DCEKAI AIDSKYSKAYGRMGLAL TALNKFEEAVTSYQKALDLDPENDSYKSNLKIAEQKLRVSSPTGTG
 LSFDMASL INNPAFI SMAASLMQNPQVQQLMSGMMTNAIGGPAAGVGGGLTDLSSLIQAGQQFAQQIQQQN
 PELIEQLRNHIRSRFSSSAAEEHS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6436_f10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_019072

ORF Size: 912 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_019072.3](#)

RefSeq Size: 5453 bp

RefSeq ORF: 915 bp

Locus ID: 54557

UniProt ID: [Q96EQ0](#)

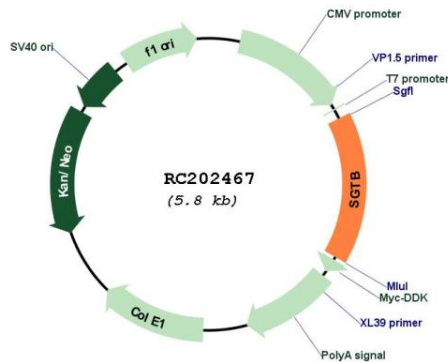
Cytogenetics: 5q12.3

Domains: TPR

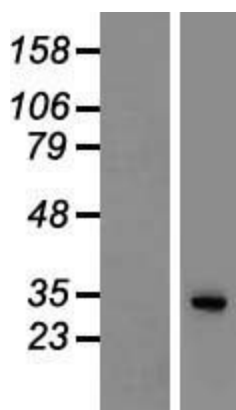
MW: 33.4 kDa

Gene Summary: Co-chaperone that binds directly to HSC70 and HSP70 and regulates their ATPase activity. [UniProtKB/Swiss-Prot Function]

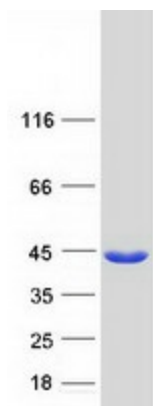
Product images:



Circular map for RC202467



Western blot validation of overexpression lysate (Cat# [LY412784]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202467 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SGTB protein (Cat# [TP302467]). The protein was produced from HEK293T cells transfected with SGTB cDNA clone (Cat# RC202467) using MegaTran 2.0 (Cat# [TT210002]).