

Product datasheet for RC201676

SUGT1 (NM_006704) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	SUGT1
Synonyms:	SGT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201676 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGCGGCTGCAGCAGGAAGTCAACATCCCAGAGGTTTTCCAGAGCTTCTCGGATGCCCTAATCG
 ACGAGGACCCCGAGGCGGCTTAGAGGAGCTGACTAAGGCTTTGGAACAGAAACCAGATGATGCACAGTA
 TTATTGTCAAAGAGCTTATTGTCACATTCTTCTGGGAATTACTGTGTTGCTGTTGCTGATGCAAGAAG
 TCTCTAGAACTCAATCCAATAATTCCACTGCTATGCTGAGAAAAGGAATATGTGAATACCATGAAAAA
 ACTATGCTGCTGCCCTAGAACTTTACAGAAGGACAAAAATTAGATAGTGCAGATGCTAATTTTCAGTGT
 CTGGATTAAAAGGTGTCAAGAAGCTCAGAATGGCTCAGAATCTGAGGTGTGGACTCATCAGTCAAAAATC
 AAGTATGACTGGTATCAACAGAACTCTCAAGTAGTCATTACACTTATGATCAAGAATGTTCAAGAAGATG
 ATGTAATGTGGAATTTTCAGAAAAGAGTTGTCTGCTTTGGTTAACTTCCTTCTGGAGAGGATTACAA
 TTTGAACTGGAATCTTCATCCTATAATACCAGAACAGAGCACGTTAAAGTACTTTCAACAAAGATT
 GAAATTAAGTAAAAAGCCAGAGGCTGTGAGATGGGAAAAGCTAGAGGGCAAGGAGATGTGCCTACGC
 CAAAACAATTCGTAGCAGATGTAAAGAACCTATATCCATCATCTCTCTTATACAAGAAATTGGGATAA
 ATTGGTTGGTGAATCAAGAAGAAGAAAAGTAAAGTGGAGGGAGATGCAGCTTTAAACAGATTA
 TTTAGCAGATCTATTAGATGGTCTGATGAAGTGAACGTGCCATGAACAAATCCTTTATGGAGTCGG
 GTGGTACAGTTTTGAGTACCAACTGGTCTGATGTAGGTAAAAGGAAAGTTGAAATCAATCCTCTGATGA
 TATGGAATGAAAAAGTAC

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC201676 protein sequence
 Red=Cloning site Green=Tags(s)

MAAAAGTATSQRFFQSFSDALIDEDPQAAL EELTKALEQKPDDAQYYCQRAYCHILLGNYCVAVADAKK
 SLELNPNNSTAMLRKGICEYHEKNYAAALETFTEGQKLDSDANF SVWIKRCQE AQNGSESEVWTHQSKI
 KYDWQYTESQVVITLMIKNVQKNDVNVEFSEKEL SALVKLPSGEDYNLKLLELHPIIPEQSTFKVLSTKI
 EIKLKKPEAVRWEKLEGGDVP TPKQFVADVKNLYPSSSPYTRNWDKL VGEIKEEKEKNEKLEGD AALNRL
 FOOIYSDGSDVEKRAMNKS FME SGGTVL STNWSDVGKRKVE INPPDDMEWKYY

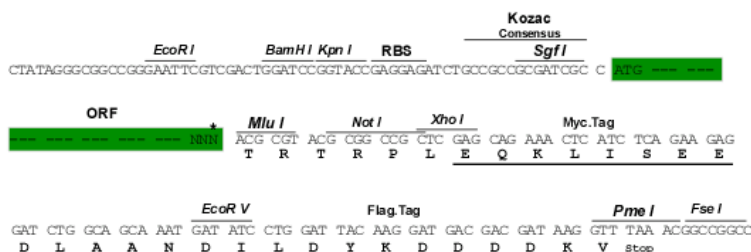
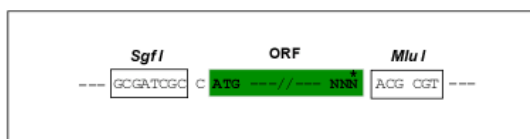
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6299_g07.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 006704

ORF Size: 999 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_006704.5](#)

RefSeq Size: 1705 bp

RefSeq ORF: 1002 bp

Locus ID: 10910

UniProt ID: [Q9Y2Z0](#)

Cytogenetics: 13q14.3

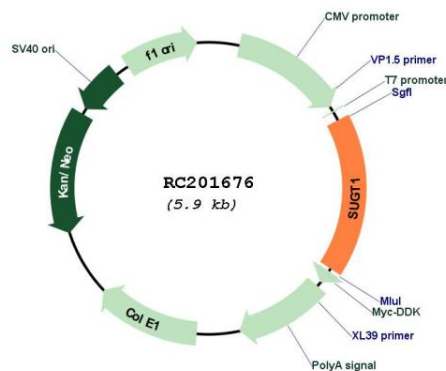
Domains: TPR, CS, SGS

Protein Pathways: NOD-like receptor signaling pathway

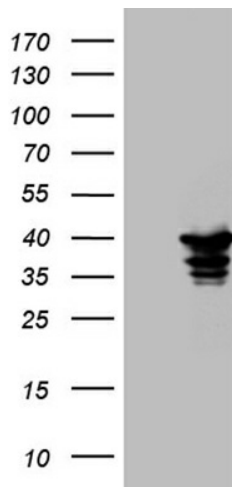
MW: 37.8 kDa

Gene Summary: This gene encodes a highly conserved nuclear protein involved in kinetochore function and required for the G1/S and G2/M transitions. This protein interacts with heat shock protein 90. Alternative splicing results in multiple transcript variants. Pseudogenes for this gene have been defined on several different chromosomes. [provided by RefSeq, Mar 2016]

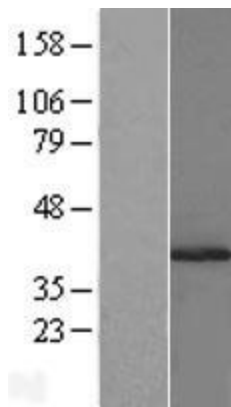
Product images:



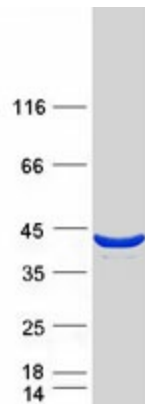
Circular map for RC201676



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SUGT1 (Cat# RC201676, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SUGT1 (Cat# [TA810102])(1:2000). Positive lysates [LY416475] (100ug) and [LC416475] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY416475]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201676 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SUGT1 protein (Cat# [TP301676]). The protein was produced from HEK293T cells transfected with SUGT1 cDNA clone (Cat# RC201676) using MegaTran 2.0 (Cat# [TT210002]).