

Product datasheet for **RG227341**

SGT1 (ECD) (NM_001135753) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SGT1 (ECD) (NM_001135753) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SGT1
Synonyms:	GCR2; HSGT1; SGT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG227341 representing NM_001135753
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAGAAACCATGAAGCTTGCTACGATGGAAGACACAGTGGAGTACTGCCTGTTCTGATACCAGATG
 AGTCAAGGGACTCAGATAAACATAAAGAGATTCTTCAGAAGTACATTGAGAGAATAATCACTCGGTTTGC
 ACCTATGCTGGTCCCCTACATCTGGCAGAAATCAGCCTTTCAATCTTAAATATAAACCTGGGAAAGGAGGT
 GTTCTGCTCATATGTTTGGCGTGACAAAGTTTGGGGATAACATTGAGGATGAATGGTTTATTGTTTATG
 TAATAAAGCAGATCACAAGGAATTTCCAGAGTTAGTAGCAAGGATTGAAGACAATGATGGTGAATTCCT
 GTTAATAGAAGCTGCTGACTTTTCCCTAAATGGCTGGATCCTGAAAATAGCACCAATAGGGTATTTTTTC
 TGCCATGGGGAATTGTGTATTATCCCTGCACCAAGAAAATCTGGAGCAGAAATCTGGTTACCCACCACAC
 CCCCACAATTCACAAGCATTGAATATAATCACAGCACATTAGAAAAAATACTTGCTTCAGAATCTAT
 ACGAGCTGCTGTGAATAGGCGCATCAGAGGGTACCCAGAAAAAATTCAGGCCTCACTTCATCGAGCACAC
 TGCTTCCTCCAGCTGGCATTGTGGCAGTGCTAAAGCAGCGCCCCAGATTGGTGGCTGCAGCAGTCCAGG
 CATTTTACCTACGAGACCTATTGACCTGCGAGCTTGTGCTGTTTTCAAGACATTCTTGCCTGAAACACG
 AATAATGACATCGGCTCATGGATTTGAGATCTTATGCTCCAAATGTAGCCACATTTTTCTGACTGCAAG
 AAATCCCTTGACTGCCTCACCCTCTGGGCCAGTTTCTTGAAGTCTGAAAAAGAATGATTACTTTA
 AGGGACTGATAGAAGTTCTGCTCAGTACCGGGAAAGGCTAGAAATGGCAGAGAATTACTCCAGCTCTC
 AGTAGACTGGCCAGAAAGTTCTCTTGTATGAGCCCTGGTGAAGAAATCTTAACCTATTACAGACAATA
 CCATTTGATATAGAAGACCTTAAGAAAGAAGCAGCTAATCTTCCCCAGAGGATGATGACCAAGTGGTTAG
 ATCTCTCACCAGATCAGCTGGACCAGCTGCTGCAGGAAGCTGTTGGCAAAAAAGAATCCGAGCTGTTTC
 CAAGGAGGAGAAGGAGCAGAACTATGACTTAAGTGAAGTCTCAGAGAGCATGAAAGCTTTTATATCCAAA
 GTCTCAACCCACAAAGGAGCAGAGCTGCCTCGAGAACCTTCTGAGGCTCCAATCACTTTTATGAGATT
 CTTTTCTAATTTTATGATAAGATTTTAGGGCCAAGGCCTAATGAGTCAGATTCTGATGATCTGGATGA
 TGAAGACTTTGAATGTTTATGATAGTGTGATGACTTGGACTTTGAAACACACGAACCTGGCGAAGAGGCT
 TCCCTGAAAGGAACACTTGATAATCTCAAGTCATACATGGCCAGATGGACCAGGAAGTACACACACCT
 GCATCAGCAAAAGTTTACCCTAGGAACCAAGTGAACCTGTATCCAGACTACCGATAACAATTCAGA
 TGAGGAAGATTCTGGTACGGGAGAACTGTTATGGCACCAGTAGATGTAGACTGAACTGGTTTCAAT
 ATATTGGAATCTATAGCTCCCAAGCTGGACTGGCAGGACCTGCTCCAATCTTTTACAAGCATGGGAG
 TGCAGCTGCCTGACAACCCGATCACAGACCAACAAGTAAAGCCAACAAAAAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG227341 representing NM_001135753
 Red=Cloning site Green=Tags(s)

MEETMKLATMEDTVEYCLFLIPDES RSDKHKEILQKYIERIITRFAPMLVPYIWQNQPFNLKYKPGKGG
 VPAHMFVTKFGDNI EDEWFIVYVIKQITKEFPELVARIEDNDGEFLLEAA DFLPKWLDPENSTNRVFF
 CHGELCIIPAPRKSGAESWLPTTPPTIPQALNIITAHSEKILASESIRA AVNRRIRGYPEKIQASLHRAH
 CFLPAGIVAVLKQRPRLVAAAVQAFYLRDPIDLRACRVFKTFLPETRIMTSAHGFEILCSKCSPHFSDCK
 KSLVTASPLWASFLESLKKN DYFKGLIEGSAQYRERLEMAENYFQLSVDWPESSLAMSPGEEIL TLLQTI
 PFDIEDLKKEAANLPPEDDDQWLDLSPDQLDQLLQEAVGKKESESVSKEEKEQNYDLTEVSESMKAFISK
 VSTHKGAELPREPSEAPITFDADSFLNYFDKILGPRPNESDSDLDDEDFECLDSDDDLDFETHEPGEEA
 SLKGTLDNLKSYMAQMDQELAHTCISKSFTRNQVEPVSQTDDNNSDEEDSGTGESVMAPVDVLDNLVSN
 ILESYSSQAGLAGPASNLLQSMGVQLPDNTDHRPTSKPTKN

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001135753

ORF Size: 1803 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_001135753.1](#), [NP_001129225.1](#)

RefSeq Size: 2151 bp

RefSeq ORF: 1806 bp

Locus ID: 11319

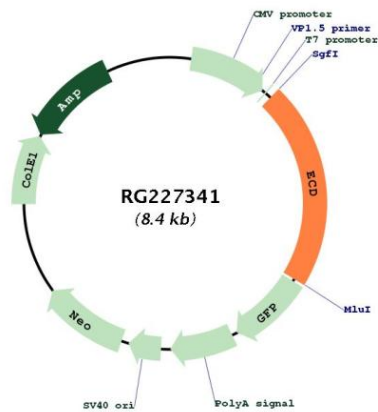
UniProt ID: [O95905](#)

Cytogenetics: 10q22.2

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: Regulator of p53/TP53 stability and function. Inhibits MDM2-mediated degradation of p53/TP53 possibly by cooperating in part with TXNIP (PubMed:16849563, PubMed:23880345). May be involved transcriptional regulation. In vitro has intrinsic transactivation activity enhanced by EP300. May be a transcriptional activator required for the expression of glycolytic genes (PubMed:19919181, PubMed:9928932). Involved in regulation of cell cycle progression. Proposed to disrupt Rb-E2F binding leading to transcriptional activation of E2F proteins (PubMed:19640839). The cell cycle -regulating function may depend on its RUVBL1-mediated association with the R2TP complex (PubMed:26711270). May play a role in regulation of pre-mRNA splicing (PubMed:24722212).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG227341