

## Product datasheet for **SC321385**

### SGT1 (ECD) (NM\_007265) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SGT1 (ECD) (NM_007265) Human Untagged Clone
Tag:	Tag Free
Symbol:	SGT1
Synonyms:	GCR2; HSGT1; SGT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_007265.1  
 CAAGGTTTCGGGGACTGAGTGGGTTTCAGACTTTCTCTCAGGATTTCCGCTGGCTTCAGG  
 TTCCGGTCAGGCGTCGGGACAGAGCCTGATCCAGGCTTCGGCGGCCGGTGGCAGCTCTCG  
 ATCAGCTCTCGCAGTCGGAGAGGCGGCTAAGGAAAGGTGCCACAGCAGAGACGCGAAGGA  
 GAGGCCCTAGAACCTTTTCAAAGAAGAATGGAAGAAACCATGAAGCTTGCTACGATGGAA  
 GACACAGTGGAGTACTGCCTGTTCTGTATACCAGATGAGTCAAGGGACTCAGATAAACAT  
 AAAGAGATTCTTCAGAAGTACATTGAGAGAATAATCACTCGGTTTGCACCTATGCTGGTC  
 CCTACATCTGGCAGAATCAGCCTTTCAATCTTAAATATAAACCTGGGAAAGGAGTGTT  
 CCTGCTCATATGTTTGGCGTGACAAAGTTTGGGGATAACATTGAGGATGAATGGTTTATT  
 GTTTATGTAATAAAGCAGATCACAAAGGAATTTCCAGAGTTAGTAGCAAGGATTGAAGAC  
 AATGATGGTGAATTTCTGTTAATAGAAGCTGCTGACTTTCTCCCTAAATGGCTGGATCCT  
 GAAAATAGCACCAATAGGGTATTTTTCTGCCATGGGGAATTGTGTATTATCCCTGCACCA  
 AGAAAATCTGGAGCAGAATCTTGGTTACCCACCACACCCCAACAATCCACAAGCATTG  
 AATATAATCACAGCACATTCAGAAAAAATACTTGCTTCAGAATCTATACGAGCTGCTGTG  
 AATAGGCGCATCAGAGGGTACCCAGAAAAAATTCAGGCCTCACTTCATCGAGCACACTGC  
 TTCTTCCAGCTGGCATTGTGGCAGTGCTAAAGCAGCGCCAGATTGGTGGCTGCAGCA  
 GTCCAGGCATTTTACCTACGAGACCTATTGACCTGCGAGCTTGTGCTGTTTTCAAGACA  
 TTCTTGCCTGAAACACGAATAATGACATCGGTCACATTACTAAATGTCTATATGCACAA  
 TTGGTGCAACAAAGGTTTGTGCCAGACCGGCGGAGTGGATACAGGCTGCCTCCTCCATCT  
 GATCCCCAGTACCAGCCCATGAATTGGGCATGAAATTGGCTCATGGATTTGAGATCTTA  
 TGCTCAAATGTAGCCACATTTTTCTGACTGCAAGAAATCCCTTGTGACTGCCTCACCA  
 CTCTGGCCAGTTTCTTGAAGTCTGAAAAAGAATGATTACTTTAAGGGACTGATAGAA  
 GGTTCTGCTCAGTACCGGAAAGGCTAGAAATGGCAGAGAATTAATCCAGCTCTCAGTA  
 GACTGGCCAGAAAGTTCTTGGCTATGAGCCCTGGTGAAGAAATCTTAACCTTATTACAG  
 ACAATAACATTTGATATAGAAGACCTTAAGAAAGAAGCAGCTAATCTTCCCCAGAGGAT  
 GATGACCAGTGGTTAGATCTCTCACCAGATCAGCTGGACCAGCTGCTGCAGGAAGCTGTT  
 GGCAAAAAGAATCCGAGTCTGTTTCCAAGGAGGAGAAGGAGCAGAACTATGACTTAACT  
 GAAGTCTCAGAGAGCATGAAAGCTTTCATATCCAAAGTCTCAACCCACAAGGGAGCAGAG  
 CTGCTCGAGAACCTTCTGAGGCTCCAATCACTTTTGATGCAGATTCTTTTCTTAATTAT  
 TTTGATAAGATTTTAGGGCCAAGGCCTAATGAGTCAGATTCTGATGATCTGGATGATGAA  
 GACTTTGAATGTTTAGATAGTGATGATGACTTGGACTTTGAAACACACGAACCTGGCGAA  
 GAGGCTTCCCTGAAAGGAACACTTGATAATCTCAAGTCATACATGGCCAGATGGACCAG  
 GAACTAGCACACCTGCATCAGCAAAAGTTTCAACCACTAGGAACCAAGTGAACCTGTA  
 TCCCAGACTACCGATAACAATTCAGATGAGGAAGATTCTGGTACGGGAGAATCTGTTATG  
 GCACCAGTAGATGTAGACCTGAACCTGGTTTCAAATATATTGGAATCCTATAGCTCCCAA  
 GCTGGACTGGCAGGACCTGCTTCCAATCTTTTACAAAGCATGGGAGTGCAGCTGCCTGAC  
 AACCCGATCACAGACCAACAAGTAAGCCAACAAAAAATAACCAGCACATTTAGCTTCT  
 CTTTTTCTTTTTAAATAAATATTGAATATGAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_007265

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_007265.1</a> , <a href="#">NP_009196.1</a>
<b>RefSeq Size:</b>	2200 bp
<b>RefSeq ORF:</b>	1935 bp
<b>Locus ID:</b>	11319
<b>UniProt ID:</b>	<a href="#">O95905</a>
<b>Cytogenetics:</b>	10q22.2
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Gene Summary:</b>	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] Transcript Variant: This variant (1) represents a more abundant transcript and encodes isoform 1.