

## Product datasheet for **RG225548**

### SUGT1 (NM\_001130912) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SUGT1 (NM_001130912) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SUGT1
Synonyms:	SGT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG225548 representing NM_001130912 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGCGGCTGCAGCAGGAAGTCAACATCCCAGAGGTTTTCCAGAGCTTCTCGGATGCCCTAATCG  
ACGAGGACCCCCAGGCGGCGTTAGAGGAGCTGACTAAGGCTTTGGAACAGAAACCAGATGATGCACAGTA  
TTATTGTCAAAGAGCTTATTGTACATTCTTCTGGGAATTACTGTGTTGCTGTTGCTGATGCAAAGAAG  
TCTCTAGAACTCAATCCAATAATCCACTGCTATGCTGAGAAAAGGAATATGTGAATACCATGAAAAA  
ACTATGCTGCTGCCCTAGAACTTTACAGAAGGACAAAAATTAGATATAGAGACGGGTTTCATCGTGT  
TGGCCAGGCTGGTCTCCAACCTTGACCTCAAGTGATCCACCTGCCTTGGACTCCCAAAGTGCTGGGATT  
ACAGGTGCAGATGCTAATTTCAAGTGTCTGGATTAAGGTTGCAAGAAGCTCAGAATGGCTCAGAATCTG  
AGGTGTGGACTCATCAGTCAAAAATCAAGTATGACTGGTATCAAACAGAACTCAAGTAGTCATTACACT  
TATGATCAAGAATGTTCAAGAAGATGATGTAATGTGGAATTTTCAGAAAAAGAGTTGCTGCTTTGGTT  
AACTTCTCTTCTGGAGAGGATTACAATTTGAACTGGAATCTTCTCATCTATAATACCAGAACAGAGCA  
CGTTTAAAGTACTTTCAACAAAGATTGAAATTAAGTAAAAAGCCAGAGGCTGTGAGATGGGAAAAGCT  
AGAGGGCAAGGAGATGTGCCTACGCCAAAACAATTCGTAGCAGATGTAAGAACCTATATCCATCATCA  
TCTCCTTATACAAGAAATGGGATAAATGGTTGGTGTGAGATCAAAGAAGAAGAAAAGAATGAAAAGTTGG  
AGGGAGATGCAGCTTTAAACAGATTATTTCAAGCAGATCTATTCAAGATGGTCTGATGAAGTGAACGTGC  
CATGAACAAATCCTTTATGGAGTCGGTGTACAGTTTTGAGTACCAACTGGTCTGATGTAGGTAAGG  
AAAGTTGAAATCAATCCTCCTGATGATATGGAATGAAAAAGTAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG225548 representing NM\_001130912  
 Red=Cloning site Green=Tags(s)

```
MAAAAAGTATSQRFFQSFSDALIDEDPQAAL EELTKALEQKPDDAQYYCQRAYCHILLGNYCVAVADAKK
SLELNPNNSTAMLRKGI CEYHEKNYAAALETFT EGQKLDIETGFHRVQAGLQLLTSSDPPALDSQSAGI
TGADANFSVWIKRCQEAQNGSESEVWTHQSKIKYD WYQTESQVVI TLMIKNVQKNDVNVVEFSEKEL SALV
KLP SGEDYNLKL ELLHPIIPEQSTFKVLSTKIEIKLKKPEAVRWEKLEGQGDVPTPKQFVADVKNLYPSS
SPYTRNWDKLVGEIKEEEKNEKLEGDAALNRLFQQIYSDGSD EVKRAMNKSFMESGGTVLSTNWSDVGKR
KVEINPPDDMEWKKY
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001130912

**ORF Size:** 1095 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\\_001130912.3](#)

**RefSeq Size:** 1801 bp

**RefSeq ORF:** 1098 bp

**Locus ID:** 10910

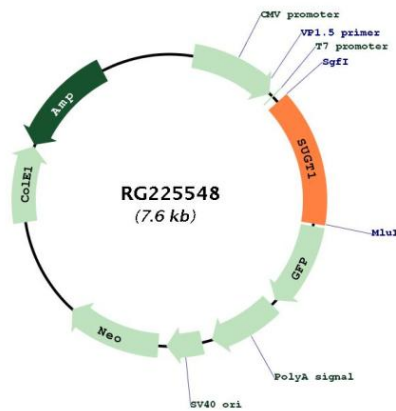
**UniProt ID:** [Q9Y2Z0](#)

**Cytogenetics:** 13q14.3

**Protein Pathways:** NOD-like receptor signaling pathway

**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 RG225548