

## Product datasheet for **RG205449**

### SWT1 (NM\_017673) Human Tagged ORF Clone

#### Product data:

|                           |                         |
|---------------------------|-------------------------|
| Product Type:             | Expression Plasmids     |
| Tag:                      | TurboGFP                |
| Symbol:                   | SWT1                    |
| Synonyms:                 | Clorf26; HsSwt1         |
| Mammalian Cell Selection: | Neomycin                |
| Vector:                   | pCMV6-AC-GFP (PS100010) |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |



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**ORF Nucleotide Sequence:** >RG205449 representing NM\_017673  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGTCCAGCAAAGAATCCTGTGGGAAAAAGAGACATCTCAGAGGAAAGACACCACCACCTCATCACCA  
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AGTTTCATCAGAAAAGAGAAAACTGAAATCAGATCATACAGATGTTCTGTACTATAATAAAAAAGAAGA  
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ATCTTGAAAAATCTCTTGGAACAGGTTTATCTTCAATATTAGAAACAGAAATGAAAAATGCTTTTGGAAA  
CCTTTGGATGGAGATCCTGTACCTGAAACCACCATGGACTCTACTACATTTACTACAGTGCTTTAAAAAA  
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CTCCTTCAGACATTTGCAGAGGTCAAGACAAAACCTTAAGCCAAATCTTCAGAAAAACAGTGACTAAAA  
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CATTTATATGTCTTCAAAGTTAATGGCAGCTGTGAGGGATATTCTTGAAGGAATTCAAAGGATTTTGGC  
CCCAACAGTGATTATCAAGATGTTGAGACCTCTATAACTTCTAATCAAGTATGAGGTAATAAAAAAT  
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GATGCCGCCAGCTGGTTGAGATGGAATATACCATGCAGCAGTGCATGCAATGCATCTGTTTATATGGAGGCCAA  
AAACAGGGGATGGTGTGAAGACATGCTCAACTATAGGATA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG205449 representing NM\_017673

Red=Cloning site Green=Tags(s)

MSSKESCGKKETSQRKDTTSSPNFGEKDKKERKTPASSTSSSSIRSVSSEKRKLKSDHTDVLYYNIKRR  
 QGLKRLSVEIDTLRRRPKIGSSSQRPILKEASYSDNQIILQSPSSNGTKKDIHKCVDFKPKDIKLTNA  
 GSKLDHGVKSLSSPKIASDVKPKAEGQASENKWSHLLVQREKMKELKKGRNSKFRDNSEKCVLEKWKRNQ  
 FSQDYSNKKIIEPLGSRRQKISFKIPIKSRDTLQKLVEENVFNIDSNNSTKQEEEREYLESSQVSLNVT  
 RQKTEHLLSDFTYKRTVHEWKRKHHDHQSNDSSHSRENLTQSFEAPCCSVSSSESIQDADQEMQIVEELH  
 AARVGKSVDLPGELMSMEIDLEDDVHSSSANNTSDRKLLIVIDTNILMNLKFFVIRILKTTEVPGFDKLV  
 IIPWVVMQELDRMKEGKLLKRAQHKAIPAVHFINDSLKNQDRKLWGQSIQLASQKHGYLSDENNDRLV  
 CCLQHQLFPCSFVILCTDDRLRNKGLISGVKSLSKEELSAELLRLSLNTDVCHQPCIPKQQLKAETTP  
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 HWLAVFGLVMEKNLLLTIESLYKNLRKANKAVDFTTVKFLQDSRSLHAFSTRSNYDGILPQTFAQVNN  
 LLQTFAEVTKLKPNSSENTVTKKQEGTSLKNSHNQEITVFSSSLPQPSRHQEIWSILESVMITIIYQNS  
 TDVFRQLGNSALTTSNIAFEEAFICLQKLMAAVRDILEGIQRILAPNSDYQDVETLYNFLIKYEVNKN  
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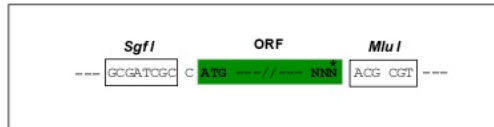
TRTRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

## Cloning Scheme:

Cloning sites used for ORF Shutting:



EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI  
 CTATAGGGCGGCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGGCCAGATCT  
 HindIII NheI RsrII MluI NotI XhoI GFP Tag  
 CAAGCTTAAGTCTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---  
 T R T R P L E M E S D - - -  
 --- --- GAA GAA AGA GTT TAA ACGGCCGCCCGGAGCT  
 - - E E R V Stop

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ACCN:</b>           | NM_017673                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>ORF Size:</b>       | 2700 bp                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>OTI Disclaimer:</b> | 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. <a href="#">More info</a> |
| <b>OTI Annotation:</b> | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.                                                                                                                                                                                                                                                                                                               |
| <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).                                                                                                                                                                                                                                                               |

**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\\_017673.5](#)

**RefSeq Size:** 3770 bp

**RefSeq ORF:** 2703 bp

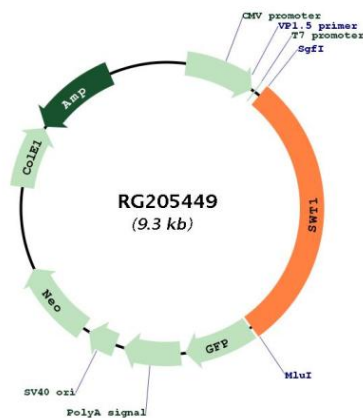
**Locus ID:** 54823

**UniProt ID:** [Q5T5J6](#)

**Cytogenetics:** 1q25.3

**Domains:** PINc

### Product images:



Circular map for RG205449