

Product datasheet for **RG201429**

SGTA (NM_003021) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SGTA (NM_003021) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SGTA
Synonyms:	alphaSGT; hSGT; SGT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201429 representing NM_003021 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACAACAAGAAGCGCCTGGCCTACGCCATCATCCAGTTCCTGCATGACCAGCTCCGGCACGGGGGCC
TCTCGTCCGATGCTCAGGAGAGCTTGGAAAGTCGCCATCCAGTGCCTGGAGACTGCGTTTGGGGTGACGGT
AGAAGACAGTGACCTTGCCTCCCTCAGACTCTGCCGGAGATATTTGAAGCGGCTGCCACGGCAAGGAG
ATGCCGCAGGACCTGAGGAGCCCCGCGCAACCCCGCCTCCGAGGAGGACTCAGCAGAGGCAGAGCGCC
TCAAAACCGAAGGAAACGAGCAGATGAAAGTGGAAAACCTTTGAAGCTGCCGTGCATTTCTACGGAAAAGC
CATCGAGCTCAACCCAGCAACGCCGTCTATTTCTGCAACAGAGCCGAGCCTACAGCAAACCTCGGCAAC
TACGCAGGCGCGGTGCAGGACTGTGAGCGGGCCATCTGCATTGACCCGGCCTACAGCAAGGCCTACGGCA
GGATGGGCCTGGCGCTCTCCAGCCTCAACAAGCACGTGGAGGCCGTGGCTTACTACAAGAAGGCTCTGGA
GCTGGACCCCGACAACGAGACATACAAGTCCAACCTCAAGATAGCGGAGCTGAAGCTGCGGGAGGCCCCC
AGCCCCACGGGAGGCGTGGGCAGCTTCGACATCGCCGGCCTGCTGAACAACCTGGCTTCATGAGCATGG
CTTCGAACCTAATGAACAATCCCAGATTCAGCAGCTCATGTCCGGCATGATTTCCGGTGGCAACAACCC
CTTGGAACTCCCGCACCCAGCCCTCGCAGAACGACCTGGCCAGCCTCATCCAGGCGGGCCAGCAGTTT
GCCCAGCAGATGCAGCAGCAGAACCAGAGTTGATAGAGCAGCTCAGGAGCCAGATCCGGAGTCGGACGC
CCAGCGCCAGCAACGACGACCCAGCAGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201429 representing NM_003021
Red=Cloning site Green=Tags(s)

```
MDNKKRLAYAI IQFLHDQLRHGGLSSDAQESLEVAIQCLETAFGVTVEDSDLALPQTLPEIFEAATGKE
MPQDLRSPARTPPSEEDSAEAERLKTGNEQMKVENFEAAVHFYKAIELNPANAVYFCNRAAAYSKLG
YAGAVQDCERAICIDPAYSKAYGRMGLALSSLNKHVEAVAYYKKALELDPDNETYKSNLKIAELKREAP
SPTGGVGSFDIAGLLNPNPFGFMSMASNLNPNPQIQQLMSGMISGGNNPLGTPGTSPSQNDLALSIQAGQQF
AQQMQQQNPQLIEQLRSQIRSRTPSASNDQDQE
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003021

ORF Size: 939 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_003021.4](#)

RefSeq Size: 2358 bp

RefSeq ORF: 942 bp

Locus ID: 6449

UniProt ID: [O43765](#)

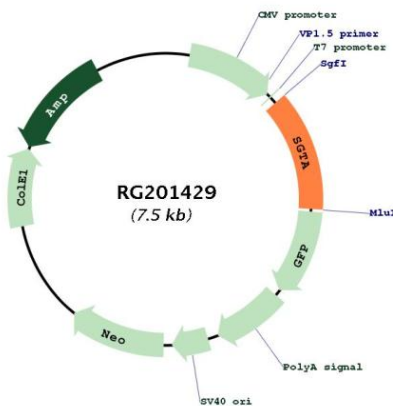
Cytogenetics: 19p13.3

Domains: TPR

Protein Families: Druggable Genome

Gene Summary: This gene encodes a protein which is capable of interacting with the major nonstructural protein of parvovirus H-1 and 70-kDa heat shock cognate protein; however, its function is not known. Since this transcript is expressed ubiquitously in various tissues, this protein may serve a housekeeping function. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG201429