

## Product datasheet for **RG207571**

### Spasmolytic Polypeptide (TFF2) (NM\_005423) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Spasmolytic Polypeptide (TFF2) (NM_005423) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Spasmolytic Polypeptide
Synonyms:	SML1; SP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207571 representing NM_005423 Red=Cloning site Blue=ORF Green=Tags(s)  TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC <b>CGATCGCC</b>  ATGGGACGGCGAGACGCCAGCTCCTGGCAGCGCTCCTCGTCCTGGGGCTATGTGCCCTGGCGGGGAGTGAGAAACCCTCCCCCTGCCAGTGTCCAGGCTGAGCCCCATAACAGGACGAAGTGGCGCTTCCCTGGAATCACCAGTGACCAGTGTTTTGACAATGGATGCTGTTTCGACTCCAGTGTCACTGGGTCCCCTGGTGTTCACCCCCCTCCAAAGCAAGAGTCGGATCAGTGCCTCATGGAGTCTCAGACCGAAGAACTGTGGCTACC CGGGCATCAGCCCCGAGGAATGCGCCTCTCGGAAGTGTCTTCTCCAATTCATCTTTGAAGTGCCTGTGCTTCTCCGAAGTCTGTGGAAGACTGCCATTAC  ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA
Protein Sequence:	>RG207571 representing NM_005423 Red=Cloning site Green=Tags(s)  MGRRDAQLLAALLVVLGLCALAGSEKPSPCQCSRLSPHNRTNCGFPGITSDQCDFNGCCFDSSVTGVPWCFHPLPKQESDQCVMESDRRRCGYPGISPEECASRKCCFSNFIFVWPWFPPKSVEDCHY  TRTRPLE - GFP Tag - V
Restriction Sites:	Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_005423

**ORF Size:** 387 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.

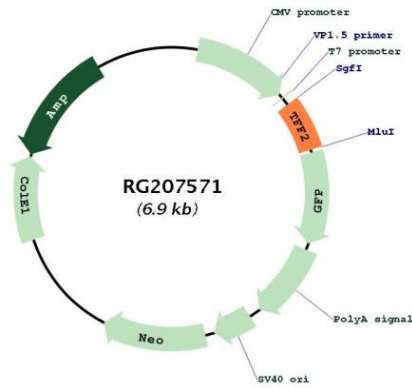
**RefSeq:** [NM\\_005423.5](#)

**RefSeq Size:** 616 bp

**RefSeq ORF:** 390 bp

**Locus ID:** 7032  
**UniProt ID:** [Q03403](#)  
**Cytogenetics:** 21q22.3  
**Protein Families:** Druggable Genome, Secreted Protein  
**Gene Summary:** Members of the trefoil family are characterized by having at least one copy of the trefoil motif, a 40-amino acid domain that contains three conserved disulfides. They are stable secretory proteins expressed in gastrointestinal mucosa. Their functions are not defined, but they may protect the mucosa from insults, stabilize the mucus layer and affect healing of the epithelium. The encoded protein inhibits gastric acid secretion. This gene and two other related trefoil family member genes are found in a cluster on chromosome 21. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG207571