

Product datasheet for RC207571

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:	Myc-DDK
Symbol:	Spasmolytic Polypeptide
Synonyms:	SML1; SP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<p>>RC207571 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</p> <p>TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC</p> <p>ATGGGACGGCGAGACGCCAGCTCCTGGCAGCGCTCCTCGTCCTGGGGCTATGTGCCCTGGCGGGGAGTGAGAAACCTCCCCCTGCCAGTGTCCAGGCTGAGCCCCATAACAGGACGAACTGCGGCTTCCCTGGAATCACCAGTGACCAGTGTTTTGACAATGGATGCTGTTTCGACTCCAGTGTCACTGGGTCCCCTGGTGTTCACCCCCCTCCAAAGCAAGAGTCGGATCAGTGCCTCATGGAGTCTCAGACCGAAGAACTGTGGCTACCGGGCATCAGCCCCGAGGAATGCGCCTCTCGGAAGTGCTGTTCTCCAATTCATCTTTGAAGTGCCTGTGCTTCTCCGAAGTCTGTGGAAGACTGCCATTAC</p> <p>ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA</p>
Protein Sequence:	<p>>RC207571 protein sequence Red=Cloning site Green=Tags(s)</p> <p>MGRRDAQLLAALLVVLGLCALAGSEKPSQCQSRLSPHNRTNCGFPGITSDQCFDNGCCFDSSVTGVPWCFHPLPKQESDQCVMEVSDRRNCGYPGISPEECASRCCFSNFI FEVFWCFPFKSVEDCHY</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
Chromatograms:	https://cdn.origene.com/chromatograms/mk6335_g08.zip
Restriction Sites:	SgfI-MluI



View online »

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: 717 bp

RefSeq ORF: 390 bp

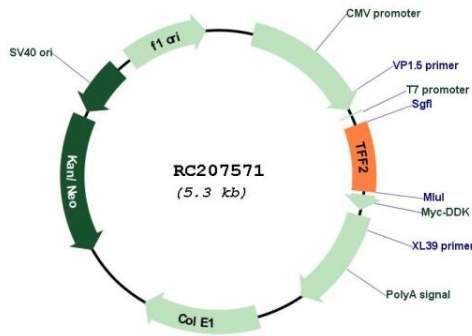
Locus ID: 7032

UniProt ID: [Q03403](#)

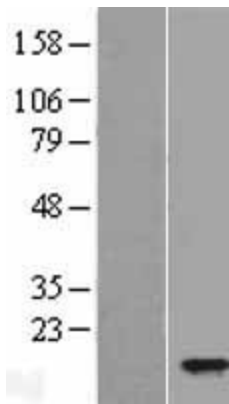
Cytogenetics: 21q22.3
Protein Families: Druggable Genome, Secreted Protein
MW: 14.3 kDa

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]

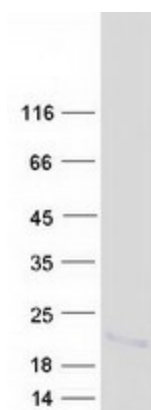
Product images:



Circular map for RC207571



Western blot validation of overexpression lysate (Cat# [LY417317]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207571 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TFF2 protein (Cat# [TP307571]). The protein was produced from HEK293T cells transfected with TFF2 cDNA clone (Cat# RC207571) using MegaTran 2.0 (Cat# [TT210002]).