

TFF1

Identity

Other names **pS2**
Hugo [TFF1](#)
Location 21q22.3
belongs to the TFF cluster

DNA/RNA

Description 5kb gene; 3 exons
Transcription 600bp cDNA; coding sequence: 252 bp

Protein

Description 84 amino acids, containing a peptide signal; the 60 AA-long mature secreted peptide contains one TFF (TreFoil Factor) domain and one acidic C-terminal domain
Expression epithelial cells of the stomach surface
Localisation cytoplasmic
Function in the maintenance of mucosa integrity; unknown at the molecular level; deficient mice develop antro-pyloric adenoma
Homology [TFF2/SP](#) (spasmolytic peptide) and [TFF3/ITF](#) (intestinal trefoil factor)

Implicated in

Disease overexpressed in estradiol-dependent [breast carcinomas](#); overexpressed in carcinoma of several other organs; loss of expression in half of gastric carcinomas (TFF1 is normally expressed in the stomach)
Prognosis good prognosis factor, and marker of response to hormonal treatment in breast carcinomas

External links

	Nomenclature
Hugo	TFF1
GDB	TFF1
Entrez_Gene	TFF1_7031 trefoil factor 1 (breast cancer, estrogen-inducible sequence expressed in)

Cards

[Atlas](#) [TFF1ID201](#)

[GeneCards](#) [TFF1](#)

[Ensembl](#) [TFF1](#)

[Genatlas](#) [TFF1](#)

[GeneLynx](#) [TFF1](#)

[eGenome](#) [TFF1](#)

[euGene](#) [7031](#)

Genomic and cartography

[GoldenPath](#) [TFF1 - 21q22.3](#) [chr21:42655462-42659713 - 21q22.3](#) (hg18-Mar_2006)

[Ensembl](#) [TFF1 - 21q22.3 \[CytoView\]](#)

[NCBI](#) [Genes Cyto](#) [Gene Seg](#) [Map View - NCBI]

[OMIM](#) [Disease map \[OMIM\]](#)

[HomoloGene](#) [TFF1](#)

Gene and transcription

[Genbank](#) [BC032811](#) [ENTREZ]

[Genbank](#) [BQ083523](#) [ENTREZ]

[Genbank](#) [BU539534](#) [ENTREZ]

[Genbank](#) [M12075](#) [ENTREZ]

[Genbank](#) [X00474](#) [ENTREZ]

[RefSeq](#) [NM_003225](#) [SRS] [Nm_003225](#) [ENTREZ]

[AceView](#) [TFF1](#) AceView - NCBI

[TRASER](#) [TFF1](#) Traser - Stanford

[Unigene](#) [Hs.162807](#) [SRS] [Hs.162807](#) [NCBI] [HS162807](#) [spliceNest]

Protein : pattern, domain, 3D structure

[SwissProt](#) [P04155](#) [SRS] [P04155](#) [EXPASY] [P04155](#) [INTERPRO]

[Prosite](#) [PS00025 P_TREFOIL](#) [SRS] [PS00025 P_TREFOIL](#) [Expasy]

[Interpro](#) [IPR000519 P_trefoil](#) [SRS] [IPR000519 P_trefoil](#) [EBI]

[CluSTr](#) [P04155](#)

[Pfam](#) [PF00088 Trefoil](#) [SRS] [PF00088 Trefoil](#) [Sanger] [pfam00088](#) [NCBI-CDD]

[Smart](#) [SM00018 PD](#) [EMBL]

[Blocks](#) [P04155](#)

[PDB](#) [1HI7](#) [SRS] [1HI7](#) [PdbSum], [1HI7](#) [IMB]

[PDB](#) [1PS2](#) [SRS] [1PS2](#) [PdbSum], [1PS2](#) [IMB]

Protein Interaction databases

[DIP](#) [P04155](#)

[IntAct](#) [P04155](#)

Polymorphism : SNP, mutations, diseases

[OMIM](#) [113710](#) [[map](#)]
[GENECLINICS](#) [113710](#)
[SNP](#) [TFF1](#) [dbSNP-NCBI]
[SNP](#) [NM_003225](#) [SNP-NCI]
[SNP](#) [TFF1](#) [GeneSNPs - Utah] [TFF1](#) [HGBASE - SRS] [TFF1](#) [SNP - HAPMAP]

General knowledge

[Family Browser](#) [TFF1](#) [UCSC Family Browser]
[SOURCE](#) [NM_003225](#)
[SMD](#) [Hs.162807](#)
[SAGE](#) [Hs.162807](#)
[Amigo](#) [carbohydrate metabolism](#)
[Amigo](#) [defense response](#)
[Amigo](#) [digestion](#)
[Amigo](#) [growth factor activity](#)
[PubGene](#) [TFF1](#)

Other databases

Probes

[Probe](#) [TFF1 Related clones \(RZPD - Berlin\)](#)

PubMed

[PubMed](#) [43 Pubmed reference\(s\) in LocusLink](#)

Bibliography

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Gastroenterology 2000; 118: 70-80.

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